

# Clarion®

2005 Catalog for Car Audio, Multimedia, and Marine Products

## SPECIAL EDITION

Redefining the Term  
Human-Machine Interface.

### TECHNICAL HIGHLIGHTS

Reaching New Heights in  
Car Audio/Video Technology



MULTIMEDIA  
NAVIGATION  
SOURCE UNITS  
CHANGERS  
SATELLITE RADIO  
PROCESSORS  
MARINE AUDIO  
AMPLIFIERS  
SUBWOOFERS  
SPEAKERS

## Arousing the Senses Through Sound and Vision

At Clarion, we deliver sound that inspires emotions, memories, as well as a feeling of independence. Our products do more than create great sound ... they create lifestyles. Welcome to Clarion's 2005 Product Catalog. Within the next 60 pages you will find audio and video entertainment products that seamlessly bridge the gap between man and machine. And we spare no expense when it comes to the inner makings of these products — the result being stunning visuals, and sound that engulfs the senses.



be heard  
be seen

# Clarion® 2005

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# REDEFINING THE TERM HUMAN-MACHINE INTERFACE

## IT'S INNOVATION YOU CAN SEE, HEAR AND TOUCH ... IT'S CLARION

Our pursuit of perfection has led us down many paths. While sound and vision have been at the core of this endeavor, superior control is what binds together everything that we do. That's why perfecting the concept of Human-Machine Interface (HMI) is so important to us. And it is this reason that you'll see what we've achieved throughout our 2005 product lineup. Our purpose: to bridge the gap between man and machine. This is the future made now ... this is Clarion.



### It's Visual Control ... Visual Entertainment

Technological advances can't be regarded as true progress if they're difficult to use. That was the thinking behind Clarion's new VRX755VD, a mobile multimedia station that represents Clarion's answer to today's iPod revolution. Containing a fully integrated user interface that provides the same look and feel as Apple's popular music player, this technological innovation is the direct result of Clarion's years of experience with HMI technology.

### Digitally Remastered: Optimedia

Fusing technological artistry with cosmetic functionality, Optimedia represents Clarion's further understanding of HMI technology. For 2005, Clarion's remastered Optimedia technology expands from the DXZ945MP to two new source unit models, both of which utilize touch-screen control to minimize the use of buttons and knobs. The cosmet-

ic functionality doesn't stop there, however. Along the bottom edges of each new Optimedia screen are four half circles, designed directly into the faceplate of each source unit. More than just cosmetic embellishments, these grooves serve as finger markers when controlling the unit. This is cosmetic integration at its best ... this is Optimedia.



**It's not about being first. It's about a deep running passion for creating the world's best HMI-equipped source unit. It's about effortless control and unlimited functionality. It's wrapping all of this innovation into a single-DIN package.**

### Rotary Volume Control

Clarion's rotary volume control provides high-accuracy control in an environment that doesn't allow for anything less. With its rubberized outer rim, users are ensured quick and precise response.

### 4.2-Inch Optimedia Display

Offering sharper images and more detailed information, Clarion outfits its new Optimedia source units with a spacious 4.2-inch TFT display. This is another example of Clarion's pursuit of better HMI technology.

### Touch-Panel Operation

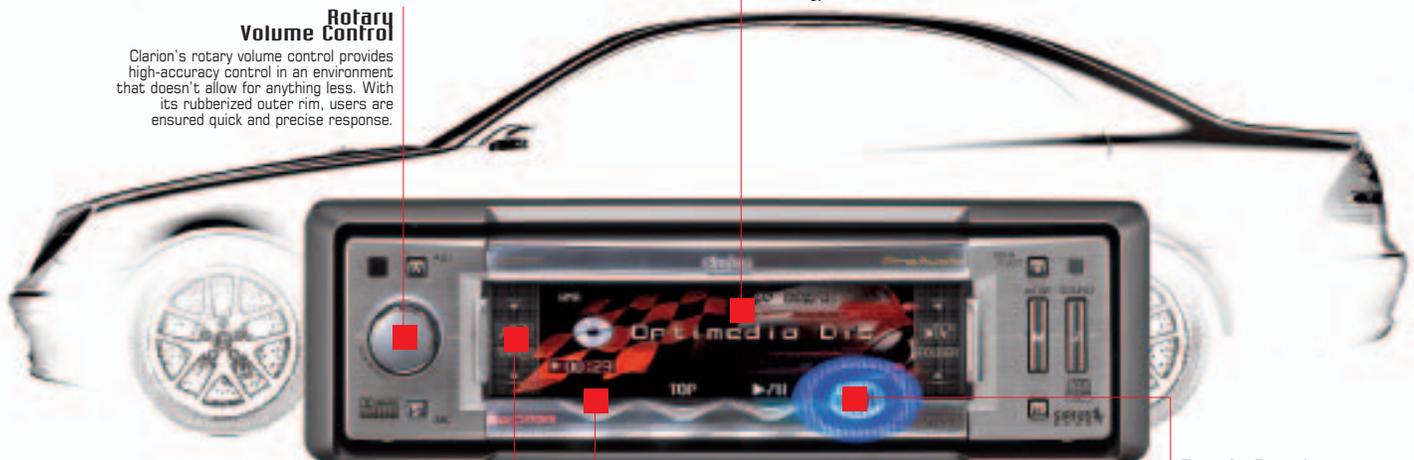
Clarion incorporates a unique swipe control action when users are navigating through a CD, MP3 or Sirius Satellite Radio programming. All it takes is a simple up and down swipe action for forward and reverse control.

### Music Catcher System

It's music storage made easy. This one-touch CD recording technology is easy to use and easy to access. There's no complicated connections, and no removable hard drives. All it takes is one button to enjoy hours of skip-free music playback ... guaranteed.

### Touch-Panel Setting Control

Clarion's Optimedia technology goes beyond audio-source navigation. Enhance your sound, or adjust the display setting with a simple touch of the 4.2-inch TFT display.



**Full-Color TFT Screen**



For better, more detailed images, Clarion incorporates a 4.2-inch TFT display for source units outfitted with Clarion's remastered Optimedia technology. Also enhancing the cosmetics of these units, this improved viewing and control screen provides users with more system information, such as a system's current status, song and artist title, as well as function and mode indicators. This high-tech innovation is a direct result of Clarion's pursuit of HMI-based technologies. It's about cosmetic design with a purpose. It's about constructing a source unit that combines top-notch entertainment with unparalleled control and visibility.

**Multicolor Display for Choreographed Cosmetics**



Clarion offers two source units in 2005 that allow users to adjust the RGB levels to cosmetically choreograph the look of their radio to their vehicle's dashboard and gauge cluster illumination. Users can choose from 728-color possibilities. For

Clarion's new Optimedia-controlled source units, users can change the background color, as well as the illumination of the screen to accommodate daytime and nighttime viewing.

**HMI: BRIDGING THE GAP IN STYLE**

**Volume Knob With Rubberized Grip**

The large volume control knob features a rubberized outer rim for precise control over your system's sound levels. For added ease of use, Clarion illuminates the area around the volume knob for better recognition during nighttime use.



**New Cosmetic Faceplate Styling**

Clarion's 2005 styling speaks to the high-tech innovation of this year's line. For its two Optimedia-equipped source units, Clarion unveils a new stainless steel-styled faceplate. Also introduced this year are three new aluminum-styled faceplate designs. Precision molded and surface treated, Clarion's new faceplates provide the perfect cosmetic enhancement to any vehicle interior.



**Smart Design ... Smart Control**

Clarion's new Smart Control Key, outfitting three source-unit models in 2005, provides users with simple fast-forward and reverse navigation when listening to a CD or MP3. Located on the rotary volume control, Clarion's Smart Key is also integral when navigating through sound menus. It's easy ... It's a smarter HMI.



**Anti-Theft Safeguards**

A Detachable Control Panel (DCP) is a useful tool against would-be thieves, as it keeps them guessing as to what type of system you have inside your car. Acting as a nighttime deterrent, Clarion equips select source unit models with a blinking LED indicator when the faceplate is removed. It's just another step Clarion has taken to ensure longtime use and enjoyment.



**HMI Plays Crucial Role in Clarion's New N.I.C.E.**



Part tour guide, part personal entertainer, Clarion's N.I.C.E. system is a transportable, 20GB HDD-based GPS navigation solution that provides users with a host of entertainment options. Just select your destination via the seven-inch monitor's HMI-based touch-screen control, and N.I.C.E. will guide you via turn-by-turn voice prompts and three mapping displays.



For entertainment, choose from Sirius Satellite Radio or MP3 music playback, which plays wirelessly through an existing sound system. The system can



also be utilized to review personal photos from a digital camera, or for rear-view camera viewing, watching movies or playing video games. It's everything in one ... It's N.I.C.E.

Working in tandem, each individual part plays a crucial role in Clarion's HMI technology. This achievement allows Clarion to dramatically increase driver visibility, operability, and safety.

# KEEPING PACE WITH TODAY'S DIGITAL AGE

## Staying in Tune With Today's Music Lifestyles

The expectations of car audio are evolving. Sound quality is now riding shotgun in today's digital age. People want more ... more access to their music and video content. Not to be outdone, however, sound quality is as much a part of this revolution as the need for compatibility. This is reflected in Clarion's 2005 Product Line - from the expansion of our Music Catcher one-touch CD recording technology to providing in-car access to today's hottest portable music player. Our pursuit of these new expectations doesn't stop there, either. Sound quality, the cornerstone of what we do, also plays a role in this new age. We've developed sound-enhancement features geared toward new media formats such as MP3 and WMA. We do this because we understand that music lifestyles are in a constant state of change. We also understand that it is our job to stay one step ahead.

### Optimedia: The Evolution Is Here



Witness the evolution of Clarion's Optimedia display technology. When the Optimedia DXZ945MP was first introduced last year, Clarion broke new ground in source unit display technology. We're taking this touch-screen, graphics-based innovation even further in 2005. Two units harness this evolution: the DXZ955MC and the DXZ855MP. With better onscreen menus, vastly improved motion graphics ... it's not what you can't do, it's about what you can achieve with Clarion's new Optimedia technology. It's unprecedented control and visibility ... It's Optimedia.

### Music Catcher Expanded ... More Units, More Possibilities

No kegs, no removable hard drives, and no complicated connections ... Music Catcher. This one-touch CD recording technology expands to two ProAudio models and one non-ProAudio model in 2005. Transforming these three source units into in-dash digital changers, Music Catcher allows for CD-less, skip-free music playback ... guaranteed. Just load your CD into the Music Catcher source unit, select a track and hit the record button. For the two ProAudio models, this means up to 6 CDs worth of storage. For the non-ProAudio source unit, this means up to 3 CDs worth of music storage. This is high-tech innovation made easy.

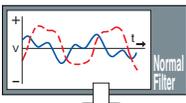


## "AC-Processor IV" - the result of advanced sound quality and sound field analysis technology.

### ADF: Created to Enhance Your Compress-Audio Listening

Made specifically to enhance the enjoyment of compressed audio formats such as MP3 and WMA, Clarion's ADF smoothes out the sound signal by

**Normal Filter**  
Sound enhancement causes the original wave form to change



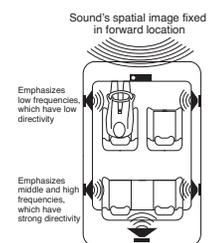
**Anti-Distortion Filter (ADF)**  
Sound enhancement maintains the original wave form

ADF is engaged, the result is crystal clear, vibrant sound that captures all the nuances the artist intended.

emphasizing high and low frequencies. This is done without increasing the bass and treble levels, which can destroy the original frequency characteristics, resulting in dull, muffled sounds. When

### Virtual Space Enhancer: Directing Sound for a Personal Listening Experience

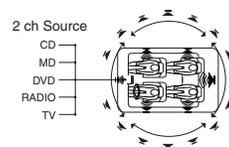
Clarion developed and designed its Virtual Space Enhancer to digitally compensate for irregular reflection, polarization, and other acoustical problems associated with a vehicle's interior design.



### Dolby ProLogic II: Transforming Your Sound Into Virtual 5.1-Channel Surround

Dolby Pro Logic II is a matrix sound decoding technology developed by Dolby

Laboratories that decodes any two-channel audio source, such as a CD or radio broadcast, and outputs it as 5.1-channel sound. Clarion was the first to



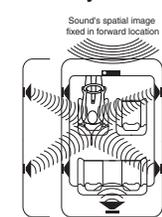
incorporate this innovation, which brings the sonic experience of a live concert right into the car. And since it's equipped with a Center-Width Control and a Matrix Mode that simulates the center-channel speaker using the front L/R speakers, you can reproduce a quasi 5.1-channel surround sound effect from a standard four-speaker setup. Users also have additional modes to choose from, all of which were created to enhance the listening experience of your vehicle.

### Parametric EQ: Taking Sound Customization to the Next Level

With Clarion's Parametric EQ users can precisely adjust the center frequency position and level, as well as the steepness of the equalizing curve. Users can also switch to professional sound control for additional system flexibility. So, for sound that's customized to your musical tastes, give Clarion's Parametric EQ a try.

### Time Alignment Control: Pinpoint Accuracy for Your System

Calibrate your sound system so you're sitting in the "seventh row, center" spot (optimum listening position) of your vehicle. Because music content is recorded so that imaging is center



of the right and left speakers, Clarion's Time Alignment Control allows users to adjust the speaker acoustics so that the same effects can be heard in any listening position (Front Left, Front Right, Front, Rear, and Full Seat) inside the car. This feature also allows you to optimize your system to account for the number of passengers inside your vehicle's interior cabin.

**Built-In Crossovers: Delivering Maximum System Performance**  
 Allowing for maximum system performance, Clarion's built-in crossovers separate the sound spectrum so tweeters reproduce only high-range frequencies, and subwoofers reproduce only low-range frequencies. Users can also tailor the system to support future upgrades by individually adjusting the cutoff frequency, filter, slope and phase.

Multi Mode (when selecting subwoofer)

Speaker Output	Network Adjustment Value	HI L/R + MID L/R + SW L/R	Cutoff Slope	Level Adjustment	phase nor/rev
X-OVER	HIGH (HPF)	f=630, 800, 1k, 1.25k, 1.6k, 2k, 2.5k, 3.15k, 4k, 5k, 6.3k, 8k, 10k, 12.5k, 16k, 20kHz / Initial Value 2kHz	-6, -12, -18dB/oct Initial Value -12dB/oct	0--20dB	With Switchover
	MID (LPF)	f=630, 800, 1k, 1.25k, 1.6k, 2k, 2.5k, 3.15k, 4k, 5k, 6.3k, 8k, 10kHz, THROUGH / Initial Value 2kHz	-6, -12, -18dB/oct Initial Value -12dB/oct		
	MID (HPF)	f=25, 31.5, 40, 50, 63, 80, 100, 125, 160, 200, 250, 315, 400, 500, 630, 800, 1k, 1.25k, 1.6k, 2k, 2.5k, 3.15k, 4k, 5k, 6.3k, 8k, 10kHz, THROUGH / Initial Value THROUGH	-6, -12, -18dB/oct Initial Value -12dB/oct	0--20dB	With Switchover
	SUB (LPF)	f=25, 31.5, 40, 50, 63, 80, 100, 125, 160, 200, 250, 315, 400, 500, 630, 800, 1k, 1.25k, 1.6k, 2k, 2.5k, 3.15k, 4k, 5k, 6.3k, 8k, 10kHz, THROUGH / Initial Value 80Hz	-6, -12, -18dB/oct Initial Value -12dB/oct	+6--20dB	With Switchover
	SUB (HPF)	f=16, 25, 31.5, 40, 50, 63, 80, 100, 125, 160, 200, 250Hz, THROUGH / Initial Value THROUGH	-6, -12, -18dB/oct Initial Value -12dB/oct		



## Sound Quality Features

### MOS-FET Power Amp: It's Pure Energy for Your Sound System

There's only one way for Clarion's source units to deliver unyielding power output and linearity: MOS-FET amplification, or Metal Oxide Semiconductor Field Effect Transistor amplification. Smaller and more efficient than conventional power supplies, a MOS-FET amplification circuit delivers power with less distortion and zero On/Off switching noise. This means you can crank up the volume or set it to easy listening. Either way, your sound will be crystal clear.

### iPod Control: Answering the Call of iPod Fans



iPod control comes to Clarion in 2005, as we allow you to "Podify" your in-car experience with a new, easy-to-use source-unit interface. Compatible with all third-generation and newer iPods, the interface makes accessing your iTunes collection as easy as fast-forwarding and reverse tracking a CD. This convenient solution also charges and powers your iPod during operation so it's ready to go once it leaves the vehicle.

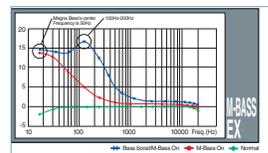
Ready for iPod

\*iPod is for legal or rightsholder-authorized copying only. Don't steal music. iPod is a trademark of Apple Computer, Inc., registered in the U.S. and other countries.

### MP3/WMA Playback

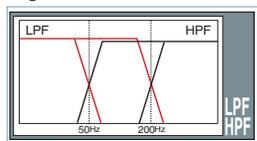
MP3 and WMA music files have revolutionized the way we listen to music. And although different, their effects can be felt similarly. Created by the Motion Picture Experts Groups Level 3, MP3 allows users to transfer up to 10 hours of music from the PC onto a CD-R or CD-RW. Windows Media Audio (WMA), which offers slightly better sound quality, allows users to burn twice as many songs (20 hours) onto a single disc. So, whichever format you choose, Clarion has the solution you're looking for.

### Magna Bass EX



Emphasize your bass with Clarion's Magna Bass EX. Compared to conventional "Loudness" features, which boost the low frequency range of 100Hz, Magna Bass EX boosts the ultra-low frequency with a center frequency of 50Hz. And with its automatic boost level control, you get well-balanced bass volume for a tighter, heavier sound.

### High-Pass/Low-Pass Filters



Allowing for a smooth music transition, Clarion's high-pass and low-pass filters ensure that the frequencies reaching your speakers match their output potential. This means tweeters in a

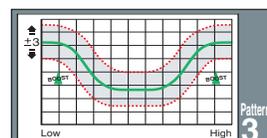
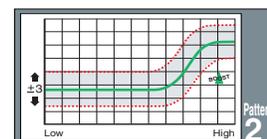
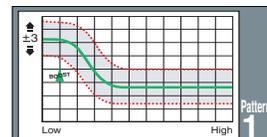
two-way setup get only the high-range frequencies, and subwoofers get the low-frequency ranges.

### 24-Bit D/A Converter: Music Reproduction at Its Best

Utilized by high-end home audio equipment, Clarion's 24-Bit D/A converters offer high-definition, audiophile-grade sound reproduction. It does this by greatly reducing linearity errors and notch distortion, as it recreates the natural nuances and expressions true to the original source. The result is superior sound and less system noise.

### Z-Enhancer Plus: (2-Band EQ) For Customized Sound Reproduction

Whether you want to emphasize your bass, or select a setting that provides more impact, Clarion's Z-Enhancer Plus offers three preset EQ patterns: Bass Boost, Impact, and Excite. Users can also select Custom 1 - Clarion's 2-



Band Parametric EQ. When in this mode, users can adjust the gain, Q, and frequency of each band for a customized sound.

### "AC-Processor IV": Addressing New-Age Digital Sound Processing

Introducing the latest in sound processing technology: Clarion's AC-Processor IV. For vibrant, dynamic sound that's straight out of a movie theater or concert hall, Clarion's newest version of its spatial analysis technology — which outfits the new DXZ955MC and DXZ855MP — puts you in total control. This allows users to engage Clarion's Time Alignment Control to adjust the time delay of each speaker, or correct



irregular reflection and polarization with the Virtual Space Enhancer. Source units with this technology also offer a Parametric EQ for extreme system customization, as well as Clarion's exclusive ADF compressed-audio enhancer. Also offered this year is Clarion's AC Processor III. This version of Clarion's spatial analysis technology outfits Clarion's DXZ945MP. Like the newer version, AC Processor III provides users with Clarion's Anti-Distortion Filter, Virtual Space Enhancer, Dolby Pro Logic II, Time Alignment Control, and a Parametric EQ. All of these features were designed to provide users with unparalleled control over their sound — whether a CD, DVD, or a MP3-loaded CD-R. To put it simply, both the AC Processor IV and AC Processor III deliver sound that can be customized to the user's musical tastes.

The **ProAudio**™ Company

## Clarion Multimedia for 2005...

### **It's in-car entertainment made easier, smarter ... It's Clarion's 2005 Mobile Multimedia Line**

In the front seat, a safe and comfortable ride is assured thanks to an in-car navigation system. In the rear seat, passengers are watching a movie and playing video games on an overhead or headrest-mounted monitor. Introducing Clarion's 2005 Mobile Multimedia line. We've got all-in-one overhead monitors with built-in DVD players. We're also the only mobile entertainment company to offer overhead monitors equipped with Picture In Picture and Split Screen viewing. New to Clarion is a transportable Navigation In-Car Entertainment system, which we dubbed N.I.C.E. Give it a try and you'll see why the acronym fits so well. Clarion also answers the cries of iPod fans around the world with the introduction of the all-new VRX755VD, which allows for seamless control over Apple's music player. But there's so much more to talk about.

To put it simply, this is a driving experience you don't want to miss. Because at Clarion, we really have thought of it all.

**variety of  
options for miles  
of fun**

**5.1-Channel Dolby Digital/dts Surround**

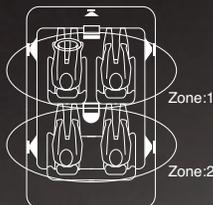
There's nothing like listening to your favorite movie or CD in true 5.1-



channel surround. That's why Clarion offers a 5.1-channel-ready multimedia station with its VRX755VD. With the addition of Clarion's DVH940 5.1-channel processor, one's mobile audio system can achieve Dolby Digital and dts sound decoding. So transform your listening experience into sound that literally comes to life, and get the dynamic sound field of a movie theater, and the subtle nuances and wide dynamic ranges of discrete soundtracks contained in your favorite DVD video.

**2 Zone Entertainment**

Clarion's 2 Zone Entertainment feature is going further in 2005, offer-



ing SUV and mini van owners more flexibility when it comes to their mobile entertainment system. Now, owners of Clarion's VRX755VD get more front-seat listening options while rear-seat passengers watch and listen to a DVD movie via wireless headphones. So, plug in an iPod, switch on Sirius Satellite Radio, or listen to a CD, the radio, or any CeNET-equipped audio source. This is versatility where you need it most ... in the car.

**All-In-One Rear-Seat Entertainment Solution**

There's nothing like an overhead, flip-down monitor equipped with a built-in DVD player. This in-demand, all-in-one solution is not only user friendly, but installer friendly as well. Clarion's 2005 rear-seat entertainment line includes two such solutions: the new OHMD102, a 10.2-inch overhead, flip-down monitor, and the seven-inch OHMD74. Both offer DVD, CD-R, CD-RW, and MP3 playback. This is entertainment made easy.

**Now Playing ... A Double Feature**

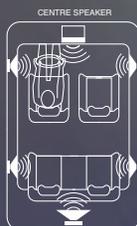
Get two monitors in one with Clarion's Split Screen and Picture In Picture technologies. Found exclusively in Clarion's OHM102 and OHM153 overhead, flip-down monitors, these two features allow rear-seat passengers to enjoy a DVD movie while playing a video game at the same time. Clarion takes this innovation a step further by outfitting these two rear-seat entertainment solutions with Dual IR Audio Output technology. This allows users to access two separate audio sources directly from the two included wireless headphones. For unparalleled flexibility, give Split Screen and Picture In Picture viewing a try with Clarion's OHM102 and OHM153.

**CeNET Technology**

When you invest in a CeNET-equipped source unit, you're investing in a unit that will grow with you. Developed by Clarion, CeNET is a component connection system crafted for plug and play system upgrades. This means that owners of Clarion's new VRX755VD get total control over Clarion's 5.1-channel surround sound processor, TV Tuner, CD and DVD changer. The benefits don't stop there, either, as CeNET-equipped components aren't hampered by noise generated by the transfer of control signals. So, get hooked up with Clarion's CeNET control system.

**Half-DIN Center-Channel Speaker**

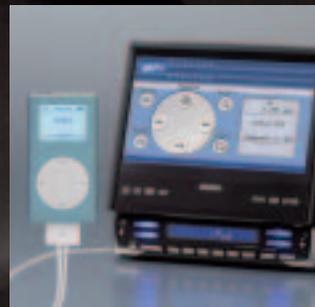
There's nothing like Clarion's in-dash center-channel speaker solution. No other car audio maker can claim the



installation flexibility the SRK5 offers. Roughly the size of an in-dash equalizer, the SRK5 is perfect for half-DIN and single-DIN applications. Simply put, this is the easiest in-dash solution for achieving 5.1-channel surround. Best of all, this speaker package, which includes five 3/4-inch full-range speakers and two 1-inch, rear-mounted, mid-bass reinforcement speakers, doesn't require an external amplifier. Why? It comes with one ... a 50-watt amplifier to be exact.

**iPod Control**

Clarion gets "Podified" in 2005 with its first in-dash monitor and DVD player combination to offer a fully integrated iPod user interface. In-car iPod solutions are nothing new. Several companies have tried it, but no one has perfected it quite like Clarion's touch-screen-capable VRX755VD. With its iPod-like onscreen layout and information screen, users will forget their iPod is safely stowed away. Best of all, this dedicated iPod solution won't sacrifice additional audio sources.



**Fully Motorized Screens**

With the touch of a button, Clarion brings multimedia to life with its fully motorized flip-out monitors. Equipped with variable screen positioning for



optimal viewing, this unit provides users with the ability to adjust the angle of the screen, and the distance from the screen to the dashboard. Clarion's motorized screens also feature non-volatile memory, allowing them to retain prior settings.

**High Resolution LCD Screens**

Utilizing the latest in active matrix LCD technology, Clarion's mobile video screens offer the most vibrant, most detailed images available today. Clarion takes this a step further by outfitting its motorized monitors with off-axis viewing.

**Got Video ... Got Options**

Playing a DVD or video game is one thing, but have you ever thought of being able to watch the day's recorded events on the family camcorder or digital camera? Clarion has. Aside from the additional video inputs equipping its rear-seat mobile video line, Clarion's offers users a convenient Game Port that can be installed virtually anywhere inside the vehicle. This means you can plug in that DVD, and still have the ability to connect a gaming unit, digital camera or camcorder.

**Touch Control**

For state-of-the-art control, Clarion equips its VRX755VD in-dash, flip-out monitor with touch-screen management of all features and functions, as well as CeNET-equipped Clarion components. Flip through



menus, or engage a sound-enhancement feature with a simple press of the unit's high-resolution screen. And so your VRX755VD can maintain a clean, clear image, Clarion treats the display screen to resist dust and grime. This is high-tech innovation made smart.

# High-Tech Fun

The blue illumination reflecting off the VRX755VD's piano-like finish reeks of high-tech innovation.

But it's truly what's in the inside of this in-dash DVD player with fully-motorized 7-inch touch screen that truly speaks to its innovation.

DVD changer ready, CD changer ready, TV tuner ready, Surround Sound ready, Sirius ready and, now, iPod ready, the VRX755VD is truly a versatile unit.

Also new this year is Clarion's revamped 2 Zone Entertainment feature, which offers more front-seat entertainment options than ever before.

It truly is amazing what Clarion can do with this single-DIN multimedia package.





**ProAudio**

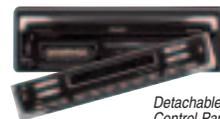
**VRX755VD NEW**

**AM/FM DVD/CD/MP3 PLAYER WITH 7" TOUCH-SCREEN LCD MONITOR**

- Fully Motorized 7-Inch Widescreen Color LCD
- 336,960-Pixel Display
- Screen Resolution of 1440 x 234
- Touch-Panel Control With Soil-Resistant Finish
- Excellent Off-Axis Viewing
- 2 ZONE Entertainment
- Single Play DVD Mechanism Plays DVD Video, CD Audio and VCD
- Plays MP3-Encoded CDs
- Plays CD-Rs and CD-RWs
- 3-Band Parametric EQ
- Magna Bass EX
- 24-Bit D/A Converter
- 212 Watts (53 Watts x 4 Channels)
- 6-Channel RCA Line Level Output
- CD Text, CD and Station Titling
- IR Remote Control
- 18FM/6AM Presets
- Detachable Control Panel



- CeNET Control of Optional DVD and CD Changer, TV tuner, Dolby Digital/dts 5.1ch Processor\*, and Sirius Satellite Radio Receiver
- 1 A/V Input
- 1 Video Output
- Fiber Optic Output for Use With Dolby Digital/dts 5.1-Channel Processor
- iPod Control (Requires Additional CCA649/iPod Connecting Cable)



**Cosmetic Sophistication**

For those looking for a seamless cosmetic look, Clarion's VRX755VD is the answer. With its piano-like finish and stunning blue illumination, this unit was created as the perfect complement to any vehicle dashboard.

**Front-Panel Display**

Close the main LCD screen to automatically activate the VRX755VD's secondary display, which provides users with CD and DVD playback information, as well as station information when utilizing a Sirius Satellite Radio, or FM tuner.

**Flip-down CD and DVD Loading**

When Clarion incorporated a flip-down CD and DVD loading mechanism for its VRX755VD, it did so because it looked cool. But one of the advantages of this



design is the protection afforded to the loading mechanism, as it is protected from damage-causing dust. For

disc loading, a user simply presses the front panel's release button. From there, the CD and DVD slot is out of sight, out of mind.

**Touchpad Buttons With Touch-Panel Control**

With its touch-screen capabilities, Clarion's in-dash 7-inch monitor allows for simple, yet accurate control of all functions, including all visual- and sound-related entertainment sources. Clarion also outfits its monitors with an on-screen numeric keypad so users can easily select specific tracks from a CD or DVD. The touch-screen surface is also treated to resist dust and grime so you'll always be looking at a clear, clean image.

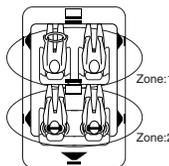
**Built-In Amplifier Bypass Circuit**

When building a system with external amplifiers, it doesn't make sense to have the VRX755VD's internal amplifier running. Why? Because an audio signal needs to be in its purest form for superior music reproduction. That's why Clarion incorporates a built-in Amplifier Bypass Circuit inside its VRX755VD, which cuts down on signal travel during

music reproduction. So, for intense system builds, ask for a source unit equipped with an Amplifier Bypass Circuit. Ask for Clarion's VRX755VD.

**2 Zone Entertainment**

Clarion has revamped its 2 Zone Entertainment feature for 2005. Why? Because we believe flexibility is a good thing when it comes to a rear-seat entertainment system. Now, owners of Clarion's VRX755VD get more front-seat listening options while rear-seat passengers watch and listen to a DVD movie via wireless headphones.



**5.1-Channel Dolby Digital/dts Surround**

There's nothing like listening to your favorite movie or CD in true 5.1-channel surround. That's why Clarion offers its Dolby Digital- and dts-ready VRX755VD. With the addition of Clarion's DVH940 5.1-channel processor, one's mobile audio system will reproduce the dynamic sound field of a movie theater, as well as the subtle nuances and wide dynamic ranges of discrete soundtracks contained in a DVD video. This is achieved by combining three channels of front sound (left, right and center), two rear sound audio channels (left and right), and a dedicated low-frequency fielding channel (subwoofer). So, for sound that literally comes to life, there's only one choice ... Clarion's VRX755VD.

	Front Source (Zone 1)	Rear Source (Zone 2)
Type 1	DVD (including CD/MP3)	A/V Input*
Type 2	A/V Input	DVD only
Type 3	Radio, CeNET connected device (Sirius, CD changer, etc.)	DVD or A/V Input*
Type 4	iPod	DVD only

\*When using iPod Control by serial connection, VHS player usage is not possible.  
 \*2 Zone Entertainment is possible only in a four-speaker setup and when the subwoofer output is not in use.  
 \*2 Zone Entertainment feature is disabled when the DVH940 is connected to the VRX755VD.

**iPods of Fun**

Unplug your ears and plug in your stored iTunes music collection with Clarion's iPod-ready VRX755VD. This one-cable solution not only offers complete control over the iPod, but it charges and powers Apple's popular music player during operation. And with its iPod-like control pad and information screen, users will quickly forget that their iPod is safely stored away. Best of all, Clarion has outfitted the VRX755VD with a dedicated iPod port, which means users won't have to sacrifice any additional audio sources. For control, the onscreen control pad contains a

playlist access button, fast-forward and reverse-rewind, as well as the play and pause button. Encircling the control pad are four additional control buttons that allow users to set the iPod to repeat, shuffle and browse. The fourth button is used to engage Clarion's 2 Zone Entertainment feature. Taking it a step further, the onscreen information display provides users with a clock, track and playlist information, elapsed time and any engaged sound-enhancement features. So bring your iPod with you, Clarion's VRX755VD is waiting.



Ready for iPod

\*iPod is for legal or rightholder-authorized copying only. Don't steal music. iPod is a trademark of Apple Computer, Inc., registered in the U.S. and other countries.

•WARNING: Driver is prohibited by law from viewing a video signal on any in-dash monitor while the vehicle is in motion.  
 •NOTE: The LCD panel uses the latest high-tech components and boasts an effective pixel rate of 99.99%. However, be aware that 0.01% or less of the pixels may be defective.  
 •NOTE: The VRX755VD cannot guarantee playback of media recorded on DVD-R/W and DVD+R/W discs.  
 •NOTE: The disc recorded in the VR mode and packet light form can not play.

## Give your rear-seat passengers first-class entertainment

A rear-seat entertainment system is the perfect remedy for those long road trips. Offering the latest in Active Matrix LCD technology, Clarion's rear-seat video line offers several key features, including built-in DVD players, Split Screen and Picture In Picture viewing, external Game Ports, widescreen viewing, and more. So take the show on the road with Clarion's rear-seat entertainment line.

### ▶ **OHMD102** NEW

#### **10.2" WIDESCREEN, FLIP-DOWN LCD MONITOR WITH DVD PLAYER**

- Plays DVD/CD/CD-R/CD-RW/MP3
- Easy-Fit Universal Metal Mounting Bracket
- TFT Active Matrix Display With 16:9/4:3 Format
- On-Screen Display (OSD)
- 2 A/V Inputs
- 1 Video Output
- Convenient External A/V Game Port
- Lightweight Plastic Housing
- IR Audio Output for Wireless Headphones (Includes Two WH104H)
- Front-Panel Accessible Picture Adjustment Controls
- FM Modulator Control Cable (Included for Optional FM200)
- Remote Control
- Built-In Dome Lights



### ▶ **OHM102**

#### **10.2" WIDE-SCREEN FLIP-DOWN LCD MONITOR WITH PICTURE IN PICTURE**



- Easy-Fit Universal Metal Mounting Bracket
- TFT Active Matrix Display With 16:9/4:3 Format
- On-Screen Display (OSD)
- Swivel Mechanism
- Picture In Picture (PIP)
- Adjustable Split Screen Viewing
- Dual IR Audio Output for Wireless Headphones (Includes Two WH204H)
- 2 A/V Inputs
- 1 Video Output
- Convenient External A/V Game Port
- Lightweight Plastic Housing
- Remote Control
- Built-In Wireless Audio Transmitter
- Built-In Dome Lights

## High-luminosity LCD monitors for an extremely realistic display of all visual sources



### ▶ **VMA7194**

#### **7" WIDESCREEN LCD MONITOR**

- Easy-Fit Universal Mounting Bracket (Included)
- TFT Active Matrix Display With 16:9/4:3 Format
- On-Screen Display (OSD)
- 2 A/V Inputs
- Convenient External A/V Game Port
- Dual IR Output for Headphones (Optional WH204H)
- Built-In IR Receiver
- Front-Panel Controls for Power, Source and Picture



### ▶ **VMA5894**

#### **5.8" WIDESCREEN LCD MONITOR**

- Easy-Fit Universal Mounting Bracket (Included)
- TFT Active Matrix Display with 16:9/4:3 Format
- On-Screen Display(OSD)
- 2 A/V Inputs
- Convenient External A/V Game Port
- Dual IR Output for Headphones (Optional WH204H)
- Built-In IR Receiver
- Front-Panel Controls for Power, Source and Picture

### ▶ **OHM153**

#### **15.3" WIDESCREEN FLIP-DOWN LCD MONITOR WITH PICTURE IN PICTURE**

- Easy-Fit Universal Metal Mounting Bracket
- TFT Active Matrix Display With 16:9/4:3 Format
- On-Screen Display (OSD)
- Picture In Picture (PIP)
- Adjustable Split Screen Viewing
- Dual IR Audio Output for Wireless Headphones (Includes Two WH204H)
- 2 A/V Inputs
- 1 Video Output
- Convenient External A/V Game Port
- Lightweight Plastic Housing
- Remote Control
- Built-In Wireless Audio Transmitter
- Built-In Dome Lights



▶ **VCZ625**

**6-DISC DVD/CD/VCD/MP3 CHANGER**



• CeNET Mode or Standalone Operation • 6-Disc DVD Mechanism Plays DVD Video, CD Audio, Video CD, MP3-Encoded CD-R/RWs and dts Audio CD

• 24-Bit DAC • CD Text (Audio CD) • Fiber Optic Output for Use With DVH940 5.1 Dolby Digital / dts Processor • 2-Channel RCA Line Level Outputs for Stand-Alone Use • Automatic 2-Channel Mix Down of 5.1 Dolby Digital, dts and dts CD Audio • 2 RCA Composite Video Outputs • Includes 16' CeNET Cable and 16' AV Cable for Stand-Alone Use • IR Remote Control



▶ **DVH940**

**5.1 DOLBY DIGITAL/dts/PRO LOGIC II AUDIO PROCESSOR**



• CeNET Mode or Standalone Hideaway Processor • Decodes Dolby Digital, dts, dts Audio CD and Dolby Pro Logic II • Directly Controlled by VRX755VD and DXZ945MP • 6 Pre-Programmed

Digital Sound Field Memories • Individual Adjustable Speaker Gains (LF, RF, C, LR, RR, SW) • Independent 3-Band Parametric EQ for Front, Center Rear Channels • 50Hz / 80Hz / 120Hz Selectable High-Pass Crossover for Front, Center, and Rear Channels • 50Hz / 80Hz / 120Hz Selectable Low-Pass Crossover for Subwoofer • Speaker Time Delay Settings • 24-Bit D/A Converters • 2-Channel RCA Line Level Analog Input • One CeNET Analog Line Level Input • Two Digital Fiber Optic Inputs • Optional DVC920 Controller (Allows the DVH940 to be Compatible With Any Source Unit)



▶ **DVC920**

**DVH940 CONTROLLER**

• Connects to DVH940 Processor • Controls all Functions of DVH940 • Adjustable Contrast • High Visibility Multi-Color Display • Screen Saver Mode



▶ **VS755 NEW**

**SINGLE-DIN IN-DASH DVD / MP3 PLAYER**



• Single-DIN In-Dash DVD Player • Plays DVD Video, CD Audio and MP3-Encoded CD-R/RWs • Adjustable Audio Gain Controller

• 24-Bit D/A Converter • 2 AV Inputs (Includes Front-Panel AV Input) • On-Screen Display • Adjustable Aspect Ratio (16:9/4:3) • IR Remote Control • ID3 Tag for MP3 Titles



▶ **SRK5**

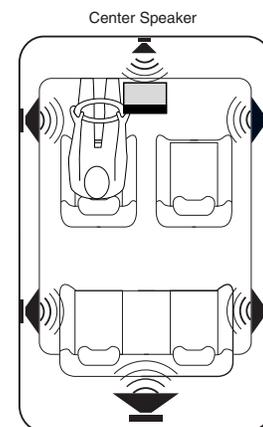
**1/2 DIN CENTER CHANNEL SPEAKER WITH AMPLIFIER**

• 1/2 DIN Fixed Application • Fits in all DIN and 1/2 Installation Kits

• 50-Watt Amplifier • 20 Watts RMS • RCA Audio Input • 5 3/4" Full Range 4 Ohm Speakers in a Sealed Enclosure with 2" - 1" Rear-Mounted Midbass Reinforcement Speakers Ported to the Front of the Enclosure • Excellent Solution for 5.1 Surround Systems

**Half-DIN Center-Channel Speaker**

There's nothing like Clarion's in-dash center-channel speaker solution. No other car audio maker can claim the installation flexibility the SRK5 offers. Roughly the size of an in-dash equalizer, the SRK5 is perfect for half-DIN and DIN-size applications. Simply put, this is the best in-dash solution for achieving 5.1-channel surround. Best of all, this speaker package doesn't require an external amplifier. Why? It comes with one ... a 50-watt amplifier to be exact.



## ► MSS430

### “SOURCE COMMANDER” MULTI-ZONE A/V SWITCHER

- Multi-Source Switching of 4 A/V Sources With Up to 3 Different Zones (Monitors)
- 4 RCA Composite A/V Inputs
- 3 RCA Composite A/V Outputs
- Includes 3 Individual Wired Control Stations
- Rear Camera Reverse Trigger Input
- Allows Simple Switching Between DVD, VCR, TV, Rear Vision Camera or Gaming System



## ► TTX001

### STANDALONE TV TUNER

- IR Remote Control
- Plug-In IR Remote Receiver
- Stereo Audio Output
- Composite Video Output
- Standalone Tuner



## ► TTX7501z



### CeNET CONTROLLED TV TUNER

- CeNET Controlled
- Diversity Tuner System
- A/V Input With Optional CCA389 Cable
- 1 Camera Input
- 2 Video Outputs



## Accessories



### WH104/WH204/WH105 WIRELESS HEADPHONE SYSTEMS

- WH104: IR Wireless Headphones
- WH204: IR Wireless Headphones (Dual Channel Input)
- WH105: RF Frequency Wireless Headphones



### FM200 FM MODULATOR

- 2-Channel RCA Audio Output
- On/Off Switch
- Volume Level Control

### ZCB301 DIPOLE TV ANTENNA INSIDE GLASS MOUNT ANTENNA FOR TTX7501Z

### ZMT009 GOOSENECK MONITOR MOUNT

### PQE023 HEADREST MOUNTING ARM FOR VIDEO MONITORS

### FM700W WIRELESS FM MODULATOR

- 8 Selectable Frequencies
- Adjustable Gain Control
- On/Off Switch

### CCA649 iPod Connecting Cable for VRX755VD

### ZCP104 4-WAY AMPLIFIED DIVERSITY INSIDE WINDOW FILM TV ANTENNA FOR TTX7501Z



### VA700 VIDEO DISTRIBUTION AMPLIFIER

- 1 RCA Composite Video Input
- 7-Buffered 75-Ohm RCA Composite Video Outputs
- Stable Video Signal for up to 7 LCD Monitors

### CK525E REAR VISION CAMERA KIT (Includes CC103E, CAA188, MF23RM)



### CC103E REAR VISION COLOR CAMERA

- Wide-Angle Lens
- Weather-Resistant Aluminum Case
- 1/4" CCD Imager



### CAA188 REAR VISION CAMERA POWER SUPPLY FOR CC103E

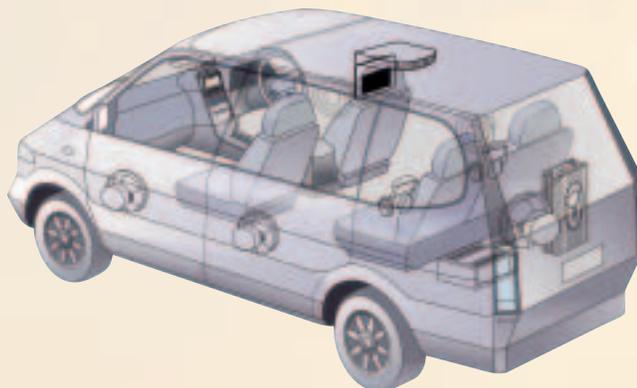
### MF23RM 23' CAMERA CABLE



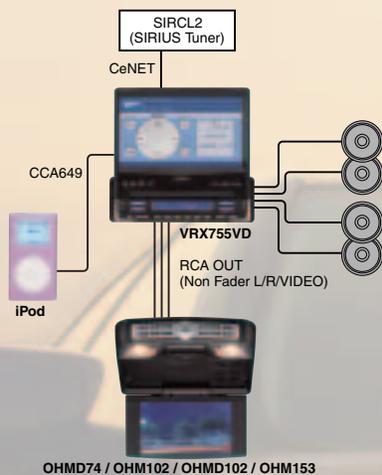
### CCA389 8P DIN RCA A/V ADAPTER FOR TTX7501z

## Whether Up Front, or In the Back, Let Clarion Create

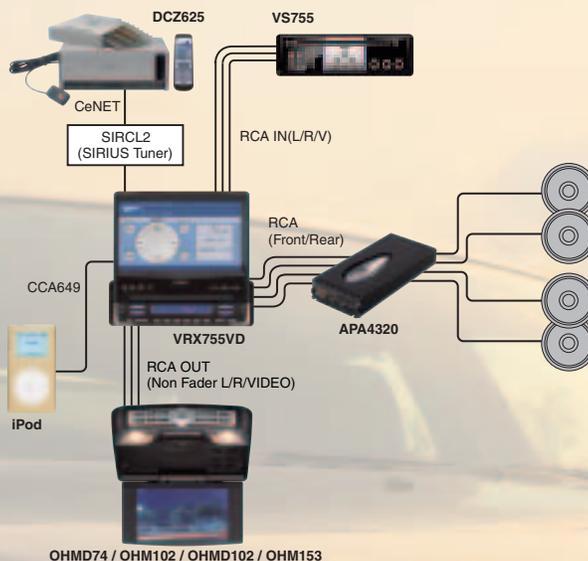
Create the ultimate mobile audio/visual entertainment system with Clarion's full line of mobile entertainment components. From its 2 Zone Entertainment-equipped in-dash DVD player with monitor to its rear-seat entertainment solutions, Clarion has what you need, where you need it.



### SYSTEM PLAN 1



### SYSTEM PLAN 2



# TRANSPORTABLE NAVIGATION ... AND

It stands for Navigation In-Car Entertainment, but take it for a spin and you'll see why the acronym is so fitting ... N.I.C.E. This vehicle-to-vehicle solution comes with mapping software covering the entire continental U.S., a built-in GPS antenna, turn-by-turn voice prompts, easy route selection, an address book, two million Points of Interest, automatic rerouting, and much more. For entertainment, N.I.C.E. offers audio/video inputs, Sirius Satellite Radio capability, and stores MP3s and personal photos. Best of all, N.I.C.E. wirelessly interfaces with an existing sound system, and only requires an easy-to-use window mount for installation. Part tour guide, part personal entertainer ... N.I.C.E.



## ▶ **N.I.C.E.** **NEW** **NAVIGATION IN-CAR ENTERTAINMENT SYSTEM WITH 7-INCH TOUCH-SCREEN LCD MONITOR**

- 7-Inch Digital TFT LCD Monitor
- Simple Destination Input With Touch-Screen Control
- Turn-By-Turn Voice Prompts
- Selectable Route Guidance
- Three Mapping Views: 2-D, 3-D and Split Screen
- Onscreen Compass, and Distance Indicators
- Automatic Route Recalculation
- Full-Featured Menus
- 4,000-Capacity Address Book
- 2 Million Points of Interest
- Instant Recall of Last 15 Destinations
- 20GB HDD for Storing Mapping Data, MP3 Music and Photos
- 2.0 USB Port
- Rear-View Camera Input and A/V Input
- Sirius Satellite Ready
- Customizable Screen Savers
- Remote Control
- Carrying Bag



### **10GB of Fun**

Half of the unit's 20GB hard drive is reserved solely for the purpose of entertainment. Utilizing its built-in USB 2.0 port, you can plug N.I.C.E. into a personal computer to download MP3 music files, or connect it to a digital

camera to transfer personal photos. Once stored, you can select the "Photo" icon to watch a slideshow, or hit the "Music Playback" icon to play your MP3 files through your existing sound system via the unit's built-in FM transmitter.

### **Video Playback and Rear View Camera Interface**

The high-resolution Digital TFT LCD isn't just for navigation. You can also use it as a rear view camera screen or for playing DVDs or video games. Offering a dedicated rear view camera port, as well as an additional A/V input, N.I.C.E. can help you maneuver out of parking spaces, or provide top-notch video entertainment. This is versatility at its best.

### **Compact Touch-Screen Monitor**

Compact in design, the 7-inch Digital TFT LCD monitor projects high-resolution images that won't strain the eyes. This translates into easy-to-see mapping displays and control screens. Oh, and it's perfect for watching movies, viewing photos, and playing video games — but you knew that. Additionally, the monitor doubles as a touch-screen control pad so you can type in your destination, select a route or engage a function with just a simple touch. Now that's N.I.C.E. .



### **Sirius Satellite Radio Interface**

Not only does N.I.C.E. provide you with coast-to-coast GPS navigation, but you also get access to Sirius Satellite Radio's coast-to-coast entertainment. By adding Clarion's NAVSIR Sirius Satellite Radio interface and antenna, you can plug into Sirius's more than 120 channels of music, talk and entertainment programming. Best of all, N.I.C.E. wirelessly transmits Sirius to an existing sound system via an FM transmitter:



# ENTERTAINMENT

## N.I.C.E.: Your Ticket to Explore

The best part about N.I.C.E. is it's a vehicle-to-vehicle solution. Getting a ride from a friend, flying to another town on business or pleasure ... make sure you take along Clarion's N.I.C.E. And with a host of route options, automatic rerouting, turn-by-turn voice prompts, easy destination entry, and three mapping views that offer an onscreen compass and distance-to-destination information ... you'll see more and do more.



### EASY DESTINATION SELECTION

Once you press the onscreen navigation button, you're seconds away from getting to where you need to go. Just enter an address or intersection using the onscreen keypad. Or, select from the unit's 2 million Points of Interests, which includes amusement parks, tourist and historical sites, ATMs, emergency services, shopping centers, gas stations, and much more ... N.I.C.E. You can also store 4,000 locations into the unit's convenient Address Book. Or, just hit the "Map" selection and you can point to where you want to go right on the screen.



### TURN-BY-TURN VOICE GUIDANCE

N.I.C.E. will even talk to you while showing you the way, providing you with turn-by-turn voice prompts as you approach the next turn. Best of all, N.I.C.E. will wirelessly speak to you through your vehicle's existing stereo system using its built-in FM transmitter ... N.I.C.E. This augments the visual aids N.I.C.E. already provides, such as the 2-D and 3-D mapping views, pop-up turn arrows, onscreen compass, and distance-to-next-turn indicators.



### YOU CHOOSE THE ROUTE

If you don't like driving on freeways, don't have enough money for toll roads, or you just want to travel the shortest distance, N.I.C.E. will accommodate your needs. This is a feature you can use if you're traveling during high traffic hours, or if you know the route N.I.C.E. selected is hampered by road construction or accidents. All you need to do is select the "Setup" option in the start-up menu ... it's easy, it's N.I.C.E.



### AUTOMATIC ROUTE RECALCULATION

Don't worry if you miss a turn, or intentionally stray off course to avoid roadwork or an accident, N.I.C.E. will get you back on track. Providing users with automatic rerouting, N.I.C.E. begins recalculating the route once the turn is missed. It will then update the compass information, as well as the onscreen distance indicators to your destination.



### HIGH ACCURACY AND QUICK RESPONSE

Equipped with a high-performance 32-bit RISC (ARM9 Core) processor, N.I.C.E. optimizes key commands for quicker execution of route calculations, faster rerouting response, and rapid access to all features and functions. This is also the key component behind the high-quality map renderings N.I.C.E. offers. For positioning accuracy during navigation, N.I.C.E. comes equipped with a Smart GPS Antenna that easily integrates with external add-on antennas.

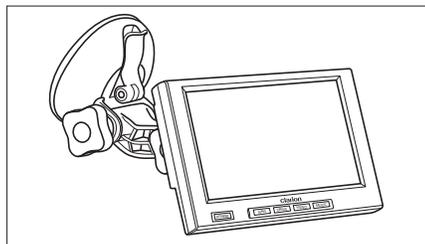


### INSTANT RECALL OF LAST 15 DESTINATIONS

The last 15 locations you navigated to can be instantly recalled so there's no retyping. This is perfect when you're out exploring in another town or state. Just recall your hotel's address, and N.I.C.E. will get you back on track.

## SIMPLE MOUNTING SOLUTION

Mounting N.I.C.E. inside a vehicle is a snap. All that's required is the unit's easy-to-use window mount (Included), which utilizes a heavy-duty suction cup to keep N.I.C.E. safely in place. From there, a user plugs in the DC power adaptor into the cigarette lighter. It's that easy ... It's Clarion's N.I.C.E.



### Accessories

Remote Included



DC Power Included



RCA Cable Included



Suction Cup Included



Sirius NAVSIR Optional



# Clarion Source Units for 2005...

The **evolution**  
is here ... don't miss it

## All-New Look, All-New Feel ... Same Great Sound

Our look has changed, but the great sound you expect hasn't. Welcome to Clarion's 2005 source-unit line. What you'll see throughout the next 12 pages is the expansion of Clarion's Music Catcher one-touch CD recording technology; the evolution of the company's touch-screen, graphics-based Optimedia display technology; new iPod compatibility; and much more. Cosmetically, Clarion unveils two new source units outfitted with stainless steel faceplates, and three models dressed in brushed-aluminum styling. Then there's the audiophile-grade DRZ9255, a unit that captures what has been a Clarion cornerstone for quite some time: sound quality. So witness the evolution as Clarion paves the way to next-generation technologies.

### iPod Interface

This little black box is what iPod lovers have been waiting for.



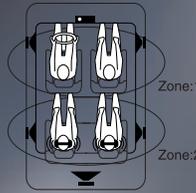
Compatible with CeNET-equipped source units, users not only get in-car control of their third-generation and newer iPod music players, but they can take advantage of a Clarion source unit's top-notch sound-enhancement features. Aside from controlling Apple's popular music player, this easy-to-use interface powers and charges the music player during operation.

Ready for  
**iPod**

\*iPod is for legal or rightsholder-authorized copying only. Clarion's stereo music. iPod is a trademark of Apple Computer, Inc., registered in the U.S. and other countries.

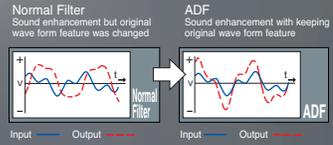
**2 Zone Entertainment**

Outfitting Clarion's DXZ945MP, Clarion's 2 Zone Entertainment lets rear-seat passengers play and listen to a video game or movie while front-seat passengers listen to a separate audio source. This is a must-have feature on family road trips.



**ADF (Anti-Distortion Filter)**

Clarion's ADF, or Anti-Distortion Filter, was created specifically for the purpose of enhancing the listening experience of your MP3 and



WMA music collections. During compression, the fidelity of your music is drastically reduced so you can fit more files onto one recordable CD. That's where ADF comes in. Smoothing out the audio signal so that high and low frequencies remain audible, ADF allows your MP3 and WMA music files to sound like the original recording. Best of all, there's no added frequency boost, which can result in dull, muffled sound. So, if you want your MP3 and WMA music files to sound cleaner and crisper, engage the ADF feature ... because at Clarion, we believe your compressed music collection shouldn't have to sound compressed.

**Music Catcher System**

No kegs, no removeable hard drives, and no complicated connections — just one button ... Music Catcher. This flash-memory-based, one-touch

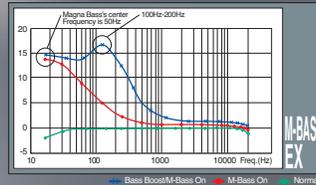


CD recording technology outfits three source units in 2005. Just load a CD, and press the "Record"

button during playback. It's that easy. Now you're ready for hours of skip-free playback ... guaranteed!

DXZ955MC / DXZ755MC / DB455MC

**Big Bass, Big Sound ... Magna Bass EX**



Whether your music is playing at a low or high volume, achieving well-balanced bass inside the car has never been easier. Allowing you to boost the ultra-low frequency range of your sound system with a center frequency of around 50Hz, this feature automatically compensates for the increased bass to eliminate any unwanted noise.

**Great Looks And Sound...**

**...With a Touch of Intelligence**



**Optimedia Display**

Combining impeccable styling with touch-screen capability, Clarion's innovative graphic user interface (GUI) provides superior functionality in an environment where ease-of-use is of utmost importance. Intuitively linking the movement of the user's fingertips to the screen, Clarion's advanced Optimedia display provides precise control of display functions and features.



DXZ955MC



DXZ855MP



DXZ945MP

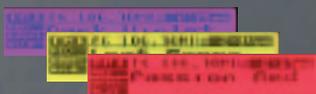
**AC-Processor IV**

Blending vibrant, dynamic sound with spatial analysis technology, Clarion unveils its latest sound processing technology: the AC-Processor IV.

- Crossover
- Time Alignment Control
- ADF (Anti-Distortion Filter)
- Dolby Pro Logic II
- VSE (Virtual Space Enhancer)
- Parametric EQ

**Multicolor Displays**

Adding flare, as well as additional cosmetic integration, Clarion outfits select source units with color-changing displays and illuminated function buttons. This allows users to cosmetically choreograph Clarion's source units to a vehicle's gauge cluster and dashboard illumination.



**MOS-FET Power Amplifier**

There's only one way for Clarion's source units to deliver unyielding power output and linearity: MOS-FET amplification, otherwise known as Metal Oxide Semiconductor Field Effect Transistor amplification. Smaller and more efficient than conventional power supplies, this type of amplification circuit delivers power with less distortion and zero On/Off switching noise.



**Subwoofer Control**

For added control, Clarion allows you to manage your sound system's subwoofer output level directly from the source unit.

**24-Bit D/A Converter**

A key component in the transfer of digital data from a CD into analog sound is Clarion's 24-Bit D/A Converter. Because the digital realm is made up of unnaturally square sound waves, as opposed to the smoothly undulating sound waves characteristic of the real-world environment, Clarion's embedded 24-Bit D/A Converters recreate the natural nuances and expressions lost during the sound reproduction process.

**Stainless Steel Faceplate**

For high-tech styling, Clarion's new stainless steel faceplates visually speak to the innovation inside its new DXZ955MC and DXZ855MP.

**Message Information**

Add a touch of personalization to a Clarion source unit with this easy-to-use message input feature. Nickname your source unit, give it your name, or input a motto you live by, and watch as your customized message scrolls across the screen.

# Bringing the Recording Studio Right Into the Car: Clarion's DRZ9255

The DRZ9255 represents what has been a cornerstone at Clarion for quite some time: Sound Quality. From its high-quality internal circuitry, and external power supply, to its simple, yet elegant front-panel design, the DRZ9255 screams of audiophile performance. Offering a sampling rate of 96kHz — twice as much as traditional CD players — the DRZ9255 achieves that “being there” feeling that audiophiles strive for. We take this a step further by equipping this statement piece with the same internal components used in high-end home and professional audio, including Burr-Brown DACs, a Glass Epoxy 4-Layer Circuit Board, a high-performance operational amplifier, a 0.5dB-Step Electronic Volume Control, and much more. Best of all, the DRZ9255 really lets users dial in their sound with a 4-Way Crossover, 5-Band Parametric EQ, and Digital Time Alignment. This is refined sound for refined tastes ...Clarion.

ProAudio



## DRZ9255

AM/FM CD PLAYER / CeNET Control

- Dual 24-Bit/96kHz Sampling DACs and DSP
- Burr-Brown DACs
- Plays CD-Rs and CD-RWs
- Built-In 4-Way Crossovers (Subwoofer/Low/Mid/High)
- 5-Band Parametric EQ
- Digital Time Alignment for Each Line Level Output
- 4V/8-Channel Gold-Plated Line Level Outputs (Offers SW/L/M/H or Front 2-Way/Rear/SW) With OFC Cables
- Copper-Plated Chassis
- DC/DC Converter

- CeNET Control of Optional TV Tuner, DVD and CD Changer
- Multi-Changer Control
- Two 2-Channel Aux. Inputs
- Fiber Optic Input/Output
- Vacuum Florescent Display
- IR Remote Control
- Line Level Output Only (Requires External Amplifier)
- Radio Tuner With 18FM/6AM Presets
- Ultra Precise Rotary Volume Control
- Zinc Die-Cast Faceplate
- iPod Control (Requires EA1251B / CeNET iPod Interface)



CD Loading Slot

## 96kHz SAMPLING DAC

Sampling 101: The story of how the standard CD came to be.



It is a well-known fact that the human audio spectrum lies in the 20Hz to 20kHz range. It is also known that in order for a digital recording

system to accurately portray a specific bandwidth, a sampling rate must be at least twice the highest desired frequency. That is why the creators of the compact disc (CD) set the sampling rate at 44.1kHz, as it ensured both accuracy and additional headroom.

**The need for harmonic elements is the rally cry of audiophiles around the world.**

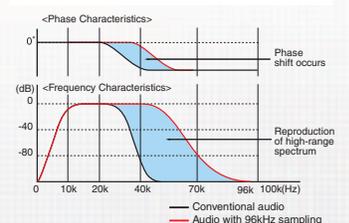
The fact that the human ear doesn't typically respond to frequencies above 20kHz does not imply that harmonics and overtones don't exist above this frequency level. In fact, they do. The problem is that before a sampler can begin its dirty work of slicing up one's music into discrete digital bytes, it must first filter away everything higher than the sample rate times two. This means much of the subtlety, "air," ambience, and presence is taken off

the top and lost forever. Bottom line, digitally-sampled audio kills the "being there" sound audiophiles strive for.

**Clarion's DRZ9255 answers the call with a 96kHz sampling rate.**

When Clarion created its flagship DRZ9255 — a remastered version of its DRX9255 (circa 1998) — it did so because being standard just wasn't good enough. Providing a precise digital interpretation of the broadest bandwidth audio source, the unit's 96kHz sampling rate takes sound reproduction to a whole new level. Simply put, this is sound you can almost touch, as the subtle nuances and depth contained in the harmonic elements are recreated. This translates into better imaging, as well as that "being there" sound audiophiles have come to expect. This is what Clarion is all about.

### Conceptual Diagram of Frequency/Phase Characteristics



**Cosmetic Sound: Copper-Plated Chassis And Zinc Die-Cast Faceplate**

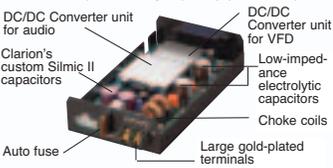
There's only one reason why Clarion employed a zinc die-cast faceplate and a copper-plated chassis for its DRZ9255, and it has nothing to do with cosmetics. The physical characteristics of both are one of the many reasons behind the unit's accurate sound reproduction. The copper-plated chassis prevents noise



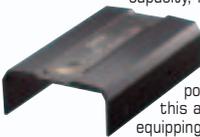
interception due to electric shielding. And the zinc die-cast faceplate, which is highly rigid and offers low resonance characteristics, prevents vibrations that can affect the sound quality. When it comes to sound, Clarion spares no expense.

**Keeping Great Sound In and Noise Out: The DRZ9255's DC/DC Converter**

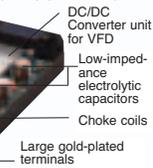
Consisting of only the highest quality components — from the chassis to the wiring and fuses — the DRZ9255's external power supply is the heart of this audiophile-grade source unit. With its six-sided shielded casing, this design thoroughly keeps out noise, even during high load bursts. And to prevent any vibration, Clarion wraps this high-quality power sup-



ply in an aluminum die-cast casing, and a copper-plated chassis. Internally, the DRZ9255's power supply utilizes toroidal choke coils, which minimize car noise and power loss. The unit also utilizes a large-capacity, low-impedance condenser, which allows this external component to supply pure power. Clarion takes this a step further by equipping the power supply with a gold-plated connection terminal, which minimizes power loss.



Clarion's custom Silmic II capacitors



DC/DC Converter unit for audio  
DC/DC Converter unit for VFD  
Low-impedance electrolytic capacitors  
Choke coils  
Large gold-plated terminals

**Exclusive CD Mechanism Design: This is Clarion at Its Best**

The CD mechanism's three-layer nickel plating prevents the moving servomotor and pickup from affecting the DRZ9255's audio circuits. This process, where the steel base is plated with copper and finished in nickel, also allows the source unit to reproduce even minute signals with superior clarity. Clarion takes this a step further by increasing the weight of the CD mechanism, providing further stability against noise and vibration.



**Vacuum Fluorescent Display (VFD) for Superior Visibility**

Even under direct sunlight the DRZ9255's high-luminosity VFD provides users with great visibility. The design — which uses an exchange-drive heater circuit to drive the fluorescent tubes, as well as a DC drive

**High-Sampling Conversion Circuit**

The accuracy of a system is based on the number of times a processor samples the analog status of a waveform. And because sampling performed at 96kHz is typically based on a 24-bit word, users of Clarion's DRZ9255 will get amazingly precise digital interpretation of the audio source.

**Burr Brown Advanced-Segment-Type 24-Bit D/A Converter**

After high sampling, the data is processed by an advanced-segment-type Burr-Brown 24-Bit D/A converter, which offers superior dynamic processing. And because the converter's internal structure consists of a 4 DAC configuration — which operates on a L/R± differential, users of the DRZ9255 are assured great sound.

**Better Components, Better Sound: High-Performance Operational Amp**

With its high through-rate, the source unit's high-performance operational amplifier — which accepts the output signal from the D/A Converter — is one of the key components behind the unit's high-definition audio output. Additionally, the DRZ9255 employs an active low-pass filter during signal composition, which is also a key reason behind this audiophile-grade source unit's superior sound quality.

**Silver-Coated SK:6N 99.9999% Oxygen-Free Copper RCA**

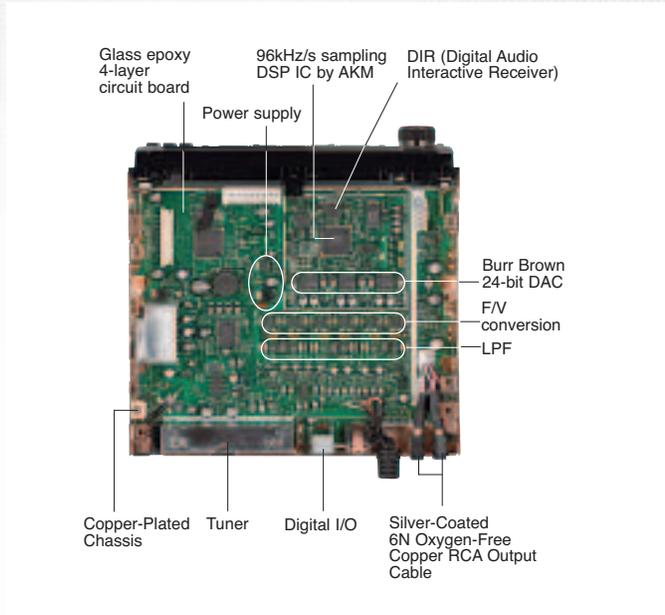
Combining the low resistance of silver, and the dynamic characteristics of the oxygen-free copper wiring, the DRZ9255 outputs a pure signal to the external amplifiers. This is one of the key reasons behind this source unit's great sound. This is attention to detail that you won't find anywhere else ... Clarion.

**Glass Epoxy 4-Layer Circuit Board**

Because stable circuit driving and high-quality sound go hand in hand, Clarion utilizes a Glass Epoxy 4-Layer circuit board. By providing exclusive layers for ground and power, impedance is lowered at both points, resulting in stable circuit driving.

**Display OFF Function**

This feature turns off the display circuit when a CD or other source is being played. This prevents pulse noise, created by the display section, from affecting sound quality. The result is better sound and performance.



Glass epoxy 4-layer circuit board  
Power supply  
96kHz/s sampling DSP IC by AKM  
DIR (Digital Audio Interactive Receiver)  
Burr Brown 24-bit DAC  
F/V conversion  
LPF  
Copper-Plated Chassis  
Tuner  
Digital I/O  
Silver-Coated 6N Oxygen-Free Copper RCA Output Cable

**8-Channel, 4-Way Crossover**

The Digital Crossover function lets you make fine and precise adjustments to each frequency range to bring out the full performance of each speaker and create an extremely natural transition. The DRZ9255 also allows for various types of system setups, including two-way and three-way configurations. And with adjustable settings for cut-off frequency (315Hz~), slope (-6dB, -12dB, -18dB), gain (-24~0dB step), and phase (0°/180°) for each band, it is possible to precisely adjust the sound directly from the head unit. Users can also mute all channels when making adjustments.

**•MULTI MODE**

This mode is used for the reproduction of 2-channel sources. Even with a system using front, rear tweeters, and woofers, you can create an entirely new system with HIGH, MID, LOW, and SUBWOOFER by adding an amp for tweeter, midrange, woofer, and subwoofer.

**•STANDARD MODE**

This mode allows one to configure a standard system with front and rear, plus subwoofer. It supports up to 8-channel systems with 2-Way front, rear speakers and subwoofer. This setup runs the front channel as HIGH, LOW, and a rear 1-channel and subwoofer.

**•DIRECT MODE**

This mode provides front, rear, non-fader 3-channel output while avoiding digital circuitry such as DSP and memory as much as possible. This mode allows direct reproduction of sound sources based on the original concept of analog sound.

**World's Finest 0.7cm-Step Digital Time Alignment**

This function lets you set each speaker in a maximum 8-channel system to deliver the same acoustic effects with pinpoint

accuracy, regardless of the listener's seat position (FRONT-L, FRONT-R, FRONT, REAR, and FULL SEAT position selectable). The Front L/R, Rear L/R, Center speaker and Subwoofer work in harmony to create a seamless soundscape. It's possible to quickly and easily select the acoustic pattern of the system, or choose different settings according to the number of passengers or type of vehicle. (Adjustable range: 0—500cm, in 7mm steps)

**5-Band Parametric EQ**

In addition to conventional tone control (Bass, Treble), this enthusiast-oriented parametric equalizer divides the frequency range into 5 bands and allows for individual adjustments. This 5-band L/R independent parametric equalizer (16—20kHz for bands 1/2/3, 200—20kHz for bands 4/5) lets you choose the desired band and finely adjust the Q (0—12kHz, 0.5 step increments) and Gain (0.5dB step increments). It helps correct the frequency range balance in your car to make its acoustic characteristics as flat as possible.

**World's First 0.5dB-Step Electronic Volume Circuit**

Outfitting the DRZ9255 with the same Burr-Brown IC found in recording mixers and other professional audio equipment, Clarion allows users to achieve fine volume adjustments in 0.5dB-step increments. Users can also adjust the step increments between 95.5dB and +6dB. Also incorporated in the electronic volume circuit is a zero crossing detection function, which eliminates switching noise and allows for a smooth transition in volume.





# New Era Sound ... New Era Innovation

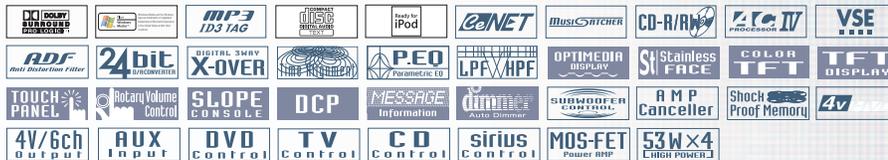
We could say the DXZ955MC represents Clarion's relentless pursuit of perfection, but why? Just one look at this high-end unit says it all. Offering touch-screen control, one-touch CD recording, superior sound-enhancement options and a stunning stainless steel faceplate, this unit reeks of high-tech innovation.

ProAudio

**DXZ955MC** NEW

**AM/FM CD/MP3/WMA PLAYER WITH DIGITAL RECORDER, CeNET AND TOUCH-PANEL CONTROL**

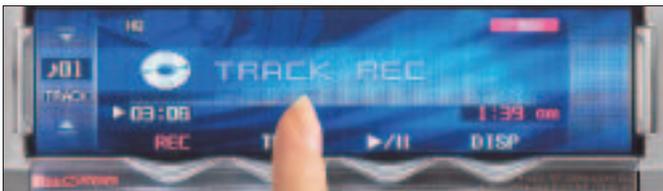
- Full-Color 4.2" Full-Dot TFT
- Optimedia Display (Touch-Panel Control)
- Music Catcher One-Touch CD Recording
- Plays MP3- and WMA-Encoded CDs
- Plays CD-Rs and C-RWs
- AC-Processor IV With Anti-Distortion Filter
- Dolby Pro Logic II
- Built-In DSP for Time Alignment (2.2 cm-Step Increments) and Virtual Space Enhancer
- 3-Band Parametric EQ
- Built-In Adjustable High-Pass Crossovers for Front/Rear/Center Channels: Through/50Hz/80Hz/120Hz
- 24-Bit D/A Converter
- 212-Watt MOS-FET Amplifier (53 Watts x 4 Channels)
- Shock-Proof Memory (45 sec.)
- 4-Volt/6-Channel Gold-Plated RCA Line Level Output
- Built-In Amplifier Bypass Circuit
- Stainless Steel Faceplate



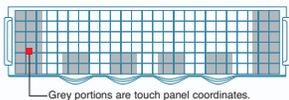
- CeNET Control of Optional DVD and CD Changer, TV Tuner, and Sirius Satellite Radio Receiver
- iPod Control (Requires EA1251B / CeNET iPod Interface)
- Blinking LED for Anti-Theft
- Auto Dimmer
- Rotary Volume Control
- 3 Screen Savers, and Wallpapers With User-Programmable Message Information
- Spectrum Analyzer
- Adjustable Display Contrast
- Motorized Detachable Control Panel
- CD Text, CD and Station Titling
- IR Remote Control
- 18FM/6AM Presets
- One 2-Channel AUX Input



CD Loading Slot



**Optimedia Display**



Offering a new onscreen layout, remastered motion graphics, touch-screen control, and, best of all, full color, Clarion takes its Optimedia display technology to a whole new level. Harnessing this evolution is Clarion's DXZ955MC. With its spacious 4.2-inch TFT display, users will see more and do more. This is high-tech innovation you can see and touch ... Optimedia.

**4-Volt/6-Ch. RCA Line Level Output**

Perfect for a system with multiple amplifiers, the DXZ955MC's three pairs of 4-volt pre-outs allow users to select from three performance modes:

- **STD Mode:** Created for casual listeners, this mode splits a system into two front channels, two rear channels and two subwoofer channels.
- **PLII Mode:** Created for fans of surround sound, this mode separates a system into two front channels, two rear channels, a center channel and a dedicated subwoofer channel.
- **Multi Mode:** Tailored for audiophile listening, this mode separates the system into two channels for high-range frequencies, two channels dedicated to the mid-range frequencies, and two subwoofer channels.

**New DSP Tuner**

The built-in high-performance tuner offers high sensitivity and clear audio reception. Utilizing a new IC chip DSP, signal interference from adjacent stations is shut out, minimizing sound distortion.

**Music Catcher System**

Clarion's DXZ955MC represents the first Optimedia source unit to incorporate the company's Music Catcher one-touch CD recording technology. When in Long Play (LP) mode, users can simply press the onscreen "Record" button to get up to 6 CDs worth of music recording. For high quality music recording, the DXZ955MC can be switched to the unit's High Quality mode, which allows for up to 4 CDs of music storage. To access your stored music collection, simply press the "Function" button until Music Catcher displays across the screen. It's that easy. No removeable hard drives, and no complicated connections ... Music Catcher. This is high-tech innovation made simple.

**24-Bit D/A Converter**

A key component in the transfer of digital data from a CD into analog sound is Clarion's 24-Bit D/A converters. Because the digital realm is made up of unnaturally square sound waves, as opposed to the smoothly undulating sound waves characteristic of the real-world environment, Clarion's embedded 24-Bit D/A Converters recreate the natural nuances and expressions lost during the sound reproduction process.



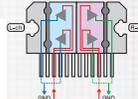
**212-Watt MOS-FET Power Amplifier**  
There's only one way for

Clarion's DXZ955MC to deliver 53 watts x 4 channels of unyielding power output and superior linearity: MOS-FET amplification — otherwise known as Metal Oxide Semiconductor Field Effect Transmitter amplification. Smaller and more efficient than conventional power

supplies, this MOS-FET amplification circuit delivers power with less distortion and zero On/Off switching noise. So crank it up, or turn it down for easy listening. Either way, with MOS-FET amplification, your music has never sounded quite like this.

**Separate Power IC x MOS-FET Structure Image**

Around the MOS-FET's centrally located S-GND, the power and GND are both separated into L-ch and R-ch, and the Power IC is driven separately.



**"AC-Processor IV" for Next-Generation Digital Sound Processing**

**Built-In Crossovers**

Separates the sound spectrum into different bands so you can minimize peaking and phase cancellation. Clarion's crossover circuitry also optimizes each output range, resulting in smoother transitions between ranges. Clarion's crossovers also allow users to adjust the cut-off frequency, filter, slope and phase.

**Digital Time Alignment**

Lets you easily adjust the time delay of your speakers to best suit your vehicle type. When setting the crossover to 2-way (tweeter/woofer) or 3-way (tweeter, mid-range/woofer) settings, you can set a Time Alignment value for each speaker. Regardless of the speaker's position, you can optimize the sound to the vehicle's acoustics. Choose from one of the three preset options: SEDAN, WAGON, and MINI-VAN.

**Anti-Distortion Filter**

ADF restores the full sound of music compressed into MP3 and WMA files, enhancing the listening experience.

**Dolby Pro Logic II**

Lets you enjoy 5.1-channel surround sound with any 2-channel sources, including DVD, CD, MP3, WMA, Sirius Satellite Radio and an AM/FM tuner. Pseudo 5.1-channel surround using 4 speakers is also available.

**Virtual Space Enhancer**

Lets you digitally correct irregular reflection, polarization and other acoustic problems caused by your vehicle's interior design. Simply choose from these three available performance options: SEDAN, WAGON and MINI-VAN.

**3-Band Parametric EQ**

Lets you adjust the equalization of each frequency band independently for front, center and rear speakers.

**iPod Interface**

Take Apple's iPod on the road with Clarion's plug-in interface. Compatible with third-generation and newer iPods, this solution also charges and powers the ipod during operation so it's ready once it leaves the car.

Ready for iPod



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**Music Catcher**



**Space Analyzer**



Wallpaper

# DIGITALLY REMASTERED: OPTIMEDIA

Offering 24-Bit D/A converters, a high-powered MOS-FET amplifier, Clarion's Optimedia display technology, a 4.2-inch Full-Color TFT display, and an attractive stainless steel faceplate, the DXZ855MP really does look as good as it sounds. Loaded with sound-enhancement features, such as Clarion's ADF compress-audio enhancer and 2-Band Parametric EQ, the DXZ855MP is a unit that puts you in control of your sound. And for system expansion, try 4-volt/6-channel line level outputs. This is a source unit that truly does it all.



## DXZ855MP **NEW**

### AM/FM CD/MP3/WMA PLAYER WITH CeNET AND TOUCH-PANEL CONTROL

- Optimedia Display (Touch-Panel Control)
- Full-Color 4.2" Full-Dot TFT
- Plays MP3- and WMA-Encoded CDs
- Plays CD-Rs and CD-RWs
- Anti-Distortion Filter
- 2-Band Parametric EQ
- Built-In Adjustable Low-Pass Crossover With Subwoofer Volume Control: 50Hz/80Hz/120Hz
- Magna Bass EX
- 24-Bit D/A Converter
- 212-Watt MOS-FET Amplifier (53 Watts x 4 Channels)
- 4-Volt/6-Channel RCA Line Level Output
- Built-In Amplifier Canceller
- Stainless Steel Faceplate
- Auto Dimmer
- 3 Screen Savers, and Wallpapers With User-Programmable Message Information
- Spectrum Analyzer



CD Loading Slot



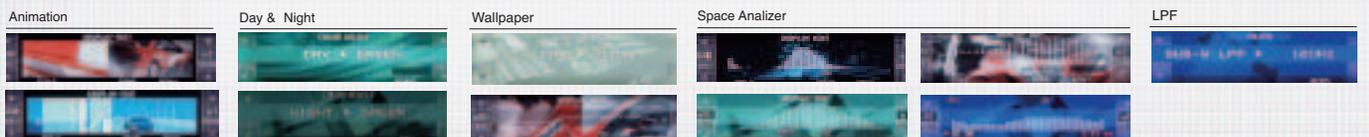
- Rotary Volume Control
- Adjustable Display Contrast
- Motorized Detachable Control Panel
- CD Text, CD and Station Titling
- IR Remote Control
- 18FM/6AM Presets
- Blinking LED for Anti-Theft
- CeNET Control of Optional DVD and CD Changer, TV Tuner, and Sirius Satellite Radio Receiver
- iPod Control (Requires EA1251B / CeNET iPod Interface)
- One 2-Channel AUX Input

#### Optimedia Display

The DXZ855MP is one of two new source units offering Clarion's next-generation Optimedia technology – a feature that blends impeccable graphics with touch-screen control. Remastered, Optimedia has evolved from its first-generation monochrome look to full color in 2005. We didn't stop there, however: The motion graphics this technology offers are vastly improved, and the revamped onscreen layouts make navigating through the unit's menu screens easy. For unparalleled looks and control ... Optimedia.

#### iPod Interface

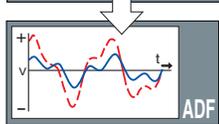
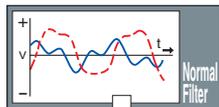
Clarion offers a new source-unit solution for bringing your 40GB iPod into the car. Just plug in Apple's popular music player into the adapter and you're ready to rock and roll. Best of all, this easy-to-use interface powers up and charges the iPod so its ready for hours of playback once its leaves the car.



**ADF: Compressed-Audio Enhancer**  
Clarion's ADF, or Anti-Distortion Filter, was created specifically for the purpose of enhancing the listening experience of your MP3 and WMA music collections. During compression, the fidelity of your

**Normal Filter**

Sound enhancement but original wave form feature was changed



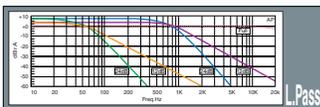
**Anti-Distortion Filter (ADF)**  
Sound enhancement with keeping original wave form feature

music is drastically reduced so you can fit more files onto one recordable CD. That's where ADF comes in. Smoothing out the audio signals so that high and low frequencies remain audible, ADF restores your MP3 and WMA music files

so they sound like the original recording. Best of all, there's no added frequency boost, which can result in dull, muffled sound. So, if you want your MP3 and WMA music files to sound cleaner and crisper, engage the ADF feature ... because at Clarion, we believe your compressed music collection shouldn't have to sound compressed.

**LPF (Low-Pass Filter)**

For optimal subwoofer performance, Clarion equips its DXZ855MP with a

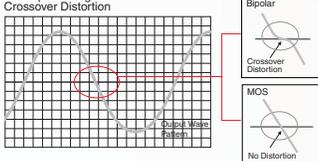


built-in Low-Pass Filter. Offering users selectable frequencies at 50Hz, 80z, and 120Hz, Clarion's Low-Pass Filter stops mid- and high-range frequencies from entering the subwoofer output. This allows users to really dial in the bass so it hits harder and tighter.

**212W MOS-FET Power Amplifier**

There's only one way for Clarion's DXZ855MC to deliver 53 watts x 4 channels of unyielding power output and superior linearity: MOS-FET amplification, otherwise known as Metal Oxide Semiconductor Field Effect Transmitter amplification. Smaller and more efficient than conventional power supplies, this MOS-FET amplification circuit delivers power with less distortion and zero On/Off switching noise. So crank it up, or turn it down for easy listening. Either way, with MOS-FET amplification, your music has never sounded quite like this.

**Conceptual Diagram of Crossover Distortion**



**Subwoofer Control**

For added control, Clarion allows you to manage your sound system's subwoofer output level directly from the source unit. This control functions separately from the volume control for increased functionality.

**4-Volt/6-Ch. RCA Line Level Output**

Offers 3 modes to accommodate a wide variety of car audio configurations and listening styles.

**Stainless Steel Faceplate**

When it came to the cosmetic design of the DXZ855MP, Clarion's product engineers wanted something that could visually speak to the unit's high-tech innovation. We found what we were looking for: Introducing Clarion's new Stainless Steel faceplates. It's progressive styling for progressive thinking.

**iPod Interface**

Clarion lets you enjoy your iPod on the road with an easy plug-in interface. Just connect your iPod for seamless enjoyment of your iTunes collection.

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Ready for iPod



**Achieve Stunning 5.1-Channel Sound With AC-Processor III**

**DXZ945MP**

**AM/FM CD/MP3/WMA PLAYER WITH CeNET AND TOUCH-PANEL CONTROL**

- Motorized Detachable Face
- Plays CD-Rs and CD-RWs
- Plays MP3- and WMA-Encoded Discs
- Optimedia Display
- Touch-Panel Control
- 16-Gradation Full-Dot LCD
- AC-Processor III With ADF
- Dolby Pro Logic II
- CeNET Control of Optional Dolby Digital/dts 5.1 Processor, TV Tuner, Sirius Satellite Radio Receiver, DVD and CD Changer
- CeNET B.B. (EA1251B) iPod Control
- CD Text, CD and Station Titling
- IR Remote Control
- 24-Bit D/A Converter
- 3-Band, 1/3-Octave Parametric EQ
- Built-In DSP for Time Alignment, Seat Position, Virtual Space Enhancer
- 4-Volt/6-Channel Gold-Plated RCA Line Level Output
- One 2-Channel Aux. Input
- Built-In Adjustable High-Pass Crossovers for Front/Rear/Center Channels: Through/50Hz/80Hz/120Hz
- Built-In Adjustable Low-Pass Crossover With



CD Loading Slot



DCI DOLBY DIGITAL PROCESSOR	MP3 ID3 TAG	WMA	IPod	CeNET	CD-R/RW	AC-III	ADF Anti-Distortion Filter	24bit
PEQ Parametric EQ	LPF/HPF	SUBWOOFER CONTROL	OPTIMEDIA DISPLAY	Aluminum FACE	TOUCH PANEL	Rotary Volume Control	SLOPE CONSULE	DCP
MESSAGE Information	Auto Dimmer	Audio 2ZONE	4V/6ch Output	5.1ch Decoder Control	DVD Control	TV Control	CD Control	AUX Input
53W x4								SIRIUS CONTROL

- Subwoofer Volume Control: 50Hz/80Hz/120Hz
- 2 Zone Control With Dedicated RCA Line Level Outputs
- Adjustable Display Contrast
- 212 Watts (53 Watts x 4 Channels)
- Radio Tuner With 18FM/GAM Presets
- Screen Saver With User-Programmable Message Information
- Blinking LED for Anti-Theft
- iPod Control (Requires EA1251B / CeNET iPod Interface)

**iPod Interface**

Clarion offers a new source-unit solution for bringing your 40GB iPod into the car. Just plug in Apple's popular music player into the adapter and you're ready to rock and roll.

Ready for iPod

\*iPod is for legal or rightholder-authorized copying only. Don't steal music. iPod is a trademark of Apple Computer, Inc., registered in the U.S. and other countries.

**AC-Processor III**

Blending vibrant, dynamic sound with spatial analysis technology, Clarion offers the AC-Processor III.

- Dolby Pro Logic II
- Anti-Distortion Filter
- Time Alignment Control
- VSE (Virtual Space Enhancer)
- Parametric EQ

**Optimedia Display**

Melding cutting-edge styling with touch-screen functionality, Clarion's reformatted graphic user interface (GUI) provides flawless operation in an environment where ease-of-use is of utmost importance. Intuitively linking the movement of the user's fingertips to the screen, Clarion's advanced Optimedia display provides precise control of all functions and features. Providing additional reliability is Clarion's 16-gradation, full-dot matrix LCD screen, which projects a type of high-grade picture that never needs a second look.



# MUSIC CATCHER EXPANDED

ProAudio



## ▶ DXZ755MC **NEW**

**AM/FM CD/MP3/WMA PLAYER WITH DIGITAL RECORDER AND CeNET CONTROL**



- Music Catcher One-Touch CD Recording
- Plays MP3- and WMA-Encoded CDs
- Plays CD-R/RW
- Anti-Distortion Filter
- 2-Band Parametric EQ
- Built-In Adjustable Low-Pass Crossover With Subwoofer Volume Control: 50Hz/80Hz/120Hz
- Magna Bass EX
- 212-Watt MOS-FET Amplifier (53 Watts x 4 Channels)



- Shock-Proof Memory (45 Sec.)
- 6-Channel RCA Line Level Output
- Built-In Amplifier Bypass Circuit
- Aluminium Faceplate
- Full-Dot 60 x 48 Positive LCD
- 728 Variable Color LCD and Illuminated Function Buttons (12 Presets and 3 Users)
- Retractable Rotary Volume Control
- Screen Saver With User-Programmable Message Information
- Spectrum Analyzer

- Adjustable Display Contrast
- Motorized Detachable Control Panel
- CD Text, CD and Station Titling
- IR Remote Control
- 18FM/GAM Presets
- Blinking LED for Anti-Theft
- CeNET Control of Optional DVD and CD Changer, TV Tuner, and Sirius Satellite Radio Receiver
- iPod Control (Requires EA1251B / CeNET iPod Interface)
- One 2-Channel AUX Input

### ADF (Anti-Distortion Filter)

Clarion's ADF, or Anti-Distortion Filter, was created specifically for the purpose of enhancing the listening experience of your MP3 and WMA music collections. During compression, the fidelity of your music is drastically reduced so you can fit more files onto one recordable CD. That's where ADF comes in. Smoothing out the audio signals so that high and low frequencies remain audible, ADF restores your MP3 and WMA music files so they sound like the original recording. Best of all, there's no added frequency boost, which can result in dull, muffled sound. So, if you want your MP3 and WMA music files to sound cleaner and crisper, engage Clarion's ADF feature.

### Music Catcher System

Just load a CD into Clarion's DXZ755MC, hit the "Record" button, and you'll never have to bring that CD with you again ... Music Catcher. This one-touch CD recording technology allows the DXZ755MC to store up to 6 CDs (When in LP Mode) worth of music. Best of all, there's no need for complicated connections, or removable hard

drives. For playback, just hit the function button until "Music Catcher" appears on the screen. Now your ready for hours of skip-free music playback.

### Retractable Rotary Volume Control

Much more ergonomic and intuitive than buttons, this control lets you adjust the volume with analog-like flexibility. It's just another way Clarion helps you keep your eyes on the road while keeping your ears entertained.



### Smart Control Key

Located on the unit's rotary volume control, Clarion's Smart Control Key lets you quickly navigate to the song you want to hear. The control is also key when toggling through sound menus.



### New Cosmetics, New Display

The brushed-aluminum accents on the unit's faceplate provide a perfect contrast to the glossy black finish surrounding the DXZ755MC's display screen. But we don't stop there. Offering 728-color variations to choose from, the unit's revamped graphics display - a full-dot matrix, positive LCD - incorporates approximately 6,000 more dots than prior source-unit models. This allows the unit's remastered graphics chip to offer superior motion graphics that flow seamlessly across the screen. This is our look in 2005 ... because at Clarion, we believe great sound and great look go hand in hand.



CD Loading Slot

### 212W MOS-FET Power Amplifier

There's only one way for Clarion's DXZ755MC to deliver 53 watts x 4 channels of unyielding power output and superior linearity: MOS-FET amplification, otherwise known as Metal Oxide Semiconductor Field Effect Transmitter amplification. Smaller and more efficient than conventional power supplies, this MOS-FET amplification circuit delivers power with less distortion and zero On/Off switching noise. So crank it up, or turn it down for easy listening. Either way, with MOS-FET amplification, your music has never sounded quite like this.



Detachable Control Panel

### iPod Interface

Unplug those headphones and plug in your Apple iPod into Clarion's DXZ755MC. All you need is Clarion's new iPod source-unit interface, which links Apple's popular music player (third-generation and newer) to any CeNET-equipped CD player. Aside from control, this easy-to-use interface also powers and charges your portable music player.

\*iPod is for legal or rightsholder-authorized copying only. Don't steal music. iPod is a trademark of Apple Computer, Inc., registered in the U.S. and other countries.

Ready for iPod



### Multicolor Display





▶ **DB455MC** **NEW**

**AM/FM CD/MP3/WMA PLAYER WITH DIGITAL RECORDER**



- Music Catcher One-Touch CD Recording
- Plays MP3- and WMA-Encoded CDs
- Plays CD-Rs and CD-RWs
- Z-Enhancer
- Magna Bass EX
- 208 Watts (52 Watts x 4 Channels)
- 2-Channel RCA Line Level Output
- Shock-Proof Memory (45 Sec.)



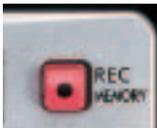
- Rotary Volume Control
- Screen Saver With User-Programmable Message Information
- CD Text, CD and Station Titling
- IR Remote Control
- 18FM/6AM Presets
- Detachable Control Panel



Detachable Control Panel

**Music Catcher System**

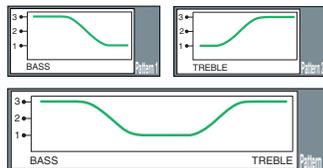
Casual car audio fans now have a wallet-friendly way of satisfying their need for leading-edge technology. Representing the first non-ProAudio source unit to harness Clarion's Music Catcher one-touch CD recording technology, the DB455MC can store up to 3 CDs (When in LP mode) worth of music. Just load a CD and press the "Record" button. It's that easy.



the fingers. Another advantage is the smooth transition in volume level when turning the sound up or down. Rather than utilizing a resistor-type potentiometer volume control, which can cause unwanted noise, Clarion's electronic potentiometer volume control provides precise control and clarity.

**Z-Enhancer**

Z-Enhancer acts as a super loudness compensation EQ, providing users with three selectable listening patterns. The first adds more bass, the second adds more treble, and third does both.



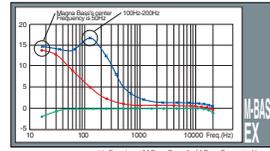
**Rotary Control: 0-60 in Just a Turn**

Clarion's electronic rotary volume control offers several benefits over the conventional rotary volume control. For one, the ergonomic design is easy on



**Magna Bass EX**

If you want more bass, engage Clarion's Magna Bass EX. This is a feature designed specifically for superior bass



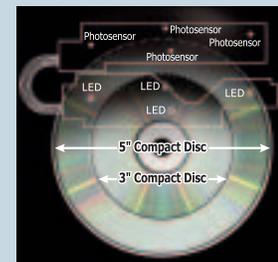
response, boosting the low- and center-range frequencies of about 50Hz. This is unlike conventional loudness features, which boost the low frequency range of 100Hz. And by focusing on the lower frequencies, the added bass impact won't distort or muffle the high-range frequencies. So experience the difference with Clarion's Magna Bass EX.

**Clarion's CD Operational Safeguards**

Clarion equips its CD source units with several operational safeguards that not only provide CD protection, but also quick, and precise CD loading. Allowing only the edges of a CD from being touched, the tapered loading roller precisely centers the disc on the drive spindle during loading. Offering further CD protection, each CD source unit incorporates a sensor that allows the CD mech to automatically reload, as well as detect the size of the disc.

**Clarion's Low-Vibration Suspension System**

Clarion's CD mechanisms incorporate a low-vibration suspension system that results in flawless CD playback. Utilizing high-quality springs and dampers to prevent

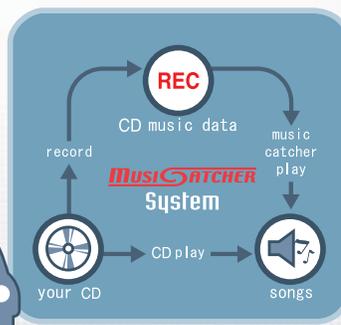


skipping and mistracking, the three-beam laser assembly — which uses a center beam to pick up the digital information sent to the D/A converter, and two outer beams to guide the laser lens assembly to precisely track the digital information on the CD — utilized by each CD source unit accurately picks up and tracks the digital information on a CD. The result is flawless music reproduction. It's this attention to detail that's made Clarion a major player in the mobile electronics industry.

**Music Catcher: Clarion Expands This One-Touch CD Recording Technology to Three New Source Units**

**Music Catcher System**

No keys, no removeable hard drives, and no complicated connections ... Music Catcher. This one-touch CD recording technology expands to two ProAudio models (up to 6 CDs of storage in LP mode) and one wallet-friendly, non-ProAudio model (Up to 3 CDs in LP Mode) in 2005. Transforming these three source units into in-dash digital changers, Music Catcher allows for CD-less, skip-free music playback.



ProAudio



**Multicolor Display**



**212W MOS-FET Power Amplifier**

There's only one way for Clarion's DXZ655MP to deliver 53 watts x 4 channels of unyielding power output and superior linearity: MOS-FET amplification, otherwise known as Metal Oxide Semiconductor Field Effect Transmitter amplification. Smaller and more efficient than conventional power supplies, this MOS-FET amplification circuit delivers power with less distortion and zero On/Off switching noise. So you can crank up the volume or set it low for easy listening. Either way, with MOS-FET amplification, your music has never sounded quite like this.

**Z-ENHANCER PLUS**

Enrich your listening experience by adapting your sound system to your music tastes with Clarion's Z-Enhancer Plus. This feature allows you to select from three performance patterns — Type1, Type2 and Type3. The gain and Q (acuteness) of each performance pattern can also be adjusted, making it possible to emphasize the power and responsiveness of each band. Simply touch the control keys to arrange the sound inside your car to better suit your favorite music genre.

**iPod Interface**

Unplug those headphones and plug in your Apple iPod into Clarion's DXZ655MP. All you need is Clarion's new iPod source-unit interface, which links Apple's popular music player to any CeNET-equipped CD player:

Ready for iPod

\*iPod is for legal or rightholder-authorized copying only. Don't steal music. iPod is a trademark of Apple Computer, Inc., registered in the U.S. and other countries.

**DXZ655MP NEW**

**AM/FM CD/MP3/WMA PLAYER WITH CeNET CONTROL**

- Plays MP3- and WMA-Encoded CDs
- Plays CD-R/RW
- 2-Band Parametric EQ (Z-Enhancer Plus)
- Built-In Adjustable Low-Pass Crossover With Subwoofer Volume Control: 50Hz/80Hz/120Hz
- Magna Bass EX
- 212-Watt MOS-FET Amplifier (53 Watts x 4 Channels)
- 6-Channel RCA Line Level Output
- Aluminium Faceplate
- 728 Variable Color LCD and Illuminated Function Buttons (12 Presets and 3 Users)
- Retractable Rotary Volume Control
- Screen Saver With User-Programmable Message Information
- Adjustable Display Contrast
- Motorized Detachable Control Panel
- CD Text, CD and Station Titling
- IR Remote Control
- 18FM/6AM Presets
- Blinking LED for Anti-Theft
- CeNET Control of Optional DVD and CD Changer, TV Tuner, and Sirius Satellite Radio Receiver
- iPod Control (Requires EA1251B / CeNET iPod Interface)
- One 2-Channel AUX Input



CD Loading Slot

ProAudio



**MP3/WMA Playlists offer long play during long drives for the digital generation**

MP3 audio compression technology, developed by the Motion Picture Experts Group Level 3, shrinks music data to approximately 1/10 its original size, allowing CD-R discs to store up to 10 CDs worth of music. Clarion's CD source units also support WMA compressed music. This media format offers twice the compression of MP3 while maintaining CD-level quality. So whichever format you choose, Clarion has the solution you're lookin' for.

**212W MOS-FET Power Amplifier**

There's only one way for Clarion's DXZ555MP to deliver 53 watts x 4 channels of unyielding power output and superior linearity: MOS-FET amplification, otherwise known as Metal Oxide Semiconductor Field Effect Transmitter amplification. Smaller and more efficient than conventional power supplies, this MOS-FET amplification circuit delivers power with less distortion and zero On/Off switching noise. So crank up that volume or set it low for easy listening.

**Retractable Rotary Volume Control**

Much more ergonomic and intuitive than buttons, this control lets you adjust the volume with analog-like flexibility. It's just another way Clarion helps you keep your eyes on the road while keeping your ears entertained.

**Smart Control Key: A New Type of Control**

Located on the unit's rotary volume control, Clarion's Smart Control Key lets you quickly navigate to the song you want to hear. The control is also key when toggling through sound menus.



**iPod Interface**

Unplug those headphones and plug in your iPod into Clarion's DXZ555MP. All you need is Clarion's new iPod source-unit interface, which links Apple's popular music player to any CeNET-equipped CD player. Not only do you get complete control, but your iPod music collection will sound better ... inside your car, that is.

**DXZ555MP NEW**

**AM/FM CD/MP3/WMA PLAYER WITH CeNET CONTROL**

- Plays MP3- and WMA-Encoded CDs
- Plays CD-Rs and CD-RWs
- 2-Band Parametric EQ (Z-Enhancer Plus)
- Magna Bass EX
- 212-Watt MOS-FET Amplifier (53 Watts x 4 Channels)
- 4-Channel RCA Line Level Output
- Aluminium Faceplate
- Retractable Rotary Volume Control
- Screen Saver With User-Programmable Message Information
- Adjustable Display Contrast
- Flip-Down Detachable Control Panel
- CD Text, CD and Station Titling
- IR Remote Control
- 18FM/6AM Presets
- Blinking LED for Anti-Theft
- CeNET Control of Optional: DVD and CD Changer, TV Tuner, and Sirius Satellite Radio Receiver
- iPod Control (Requires EA1251B / CeNET iPod Interface)
- 2-Channel AUX Input



CD Loading Slot

Ready for iPod

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▶ **DB355MP** **NEW**

**AM/FM CD/MP3 PLAYER**



- Plays MP3-Encoded CDs
- Plays CD-Rs and CD-RW
- Z-Enhancer
- Magna Bass EX
- 204 Watts (51 Watts x 4 Channels)

- 2-Channel RCA Line Level Output
- Rotary Volume Control
- IR Remote Control
- 18FM/6AM Presets
- Detachable Control Panel



Detachable Control Panel

**MP3 Playback**  
Compatible with MP3 compressed audio formats.

▶ **XA311**

**AM/FM CASSETTE PLAYER / C-BUS**

- Auto Reverse
- Magi-Tune Tuner/ 20FM/5AM Presets
- Z-Enhancer
- Rotary Volume Control
- Green LCD
- C-BUS Changer Control
- 160 Watts (40 Watts x 4 Channel)



▶ **DB255** **NEW**

**AM/FM CD PLAYER**



- Plays CD-Rs and CD-RWs
- Z-Enhancer/ Magna Bass EX
- 204 Watts (51 Watts x 4 Channels)
- 2-Ch. RCA Line Level Output
- IR Remote Control

Flip-Down Detachable Control Panel

- Rotary Volume Control
- Flip-Down DCP
- 18FM/6AM Presets



▶ **DB155** **NEW**

**AM/FM CD PLAYER**



- Plays CD-Rs and CD-RWs
- Z-Enhancer / Magna Bass EX
- 204 Watts (51Watts x 4 Channels)
- 2-Channel RCA Line Level Output
- Rotary Volume Control



Detachable Control Panel

- 18FM/6AM Presets
- Detachable Control Panel

**Top Performance in a Double-DIN Package**



▶ **ADB340MP**

**AM/FM CD/MP3/CASSETTE PLAYER**

- Flip-Down Faceplate
- Plays CD-Rs and CD-RWs
- Plays MP3-Encoded CDs
- Full Logic Cassette With Auto Reverse
- 3-Band Graphic EQ
- Magna Bass EX
- LCD With Spectrum Analyzer
- 2-Channel RCA Line Level Output
- 2-Channel AUX Input
- 200 Watts (50Watts x 4 Channels)
- Radio Tuner With 18FM/6AM Presets
- CD Text and Titling



CD Loading Slot



Cassette Loading Slot

G-EQ Pattern



SPE-ANA Pattern



## ► CALYPSO

### SIRIUS SATELLITE RADIO PLUG AND PLAY RECEIVER

- Compact Design
- Category and Artist Search
- Multiple Display Modes
- Infrared Remote
- Selectable FM Transmitting Frequency (10 Channels)
- 128x48 Dot Matrix Graphic Positive LCD
- Auto Dimming and Adjustable Contrast and Dimmer
- 30 Presets and Direct Tuning
- Adjustable Audio Output Level
- Clock
- Car Kit and Home Kit (Sold Separately)



CALYPSO



boombox

## ► CLBB

### Calypso "Boombox"

- 120-Volt AC Adaptor (8 D-Cell Batteries)
- AC-to-DC Connector
- Digital Volume Control and MAXBASS EQ
- Detachable 4" Coaxial Speakers (5' Speaker Cords)
- Antenna Mount and Cord Wrap
- 1 Auxiliary Input



## ► DSC920S

### CONTROLLER FOR DSH920S / SIRCL1 SIRIUS SATELLITE

- Operates Sirius Satellite Radio Receiver
- Scrolling Text Display
- Preset Memory Tuning (18 Presets)
- Category/Presets Scan
- Screen Saver

## ► CLCK

### SIRIUS PNP CAR KIT

## ► CLHK

### SIRIUS PNP HOME KIT

## ► SIRCL2

### SIRIUS SATELLITE RECEIVER / ANTENNA

## ► SA150

### GENERATION II SIRIUS SATELLITE ANTENNA

★ **True Portability**

From the home to the car to the family picnic, Clarion's new Calypso "Plug & Play" receiver is what true portability is all about. For home-to-car trans- portability, Clarion offers the CLHK home kit and CLCK car kit. But that's not all, as Sirius' 120 channels of entertainment can also go to the park or beach with the new Calypso "Boombox."

★ **Find the Song You Want**

With 120 channels to choose from, finding what you want may seem difficult, but no with Clarion's new Calypso. Outfitted with Sirius' S-Seek feature, Calypso will prompt users when one of their pre-selected favorite songs is playing. The unit also features 30 pre- sets, an easy-to-use rotary knob for channel navigation, as well as category, artist, and music-title scan.



**"Ride With the Big Dog"**  
**120 Channels of Entertainment!**

★ **All-New Design**

Cosmetically stunning, Clarion's Calypso touts an attractive piano-like finish, and techo-blue illumination. For visibility, Clarion outfits this portable unit with an attractive 128x48 Dot Matrix Graphic Positive Display, which scrolls artist, song and channel information across the screen, and offers two selectable font sizes for increased visibility.

★ **Preset and Direct Tuning**

With Calypso, Clarion can still claim to have the smallest, most compact "Plug & Play" Sirius unit on the market today. But even more impressive is the ease of installation this unit affords. Equipped with a built-in FM transmitter (10 selectable channels), Sirius's satellite radio programming will wirelessly play through a vehicle's existing stereo system. Talk about easy. For installation, both the home and car kit come with a docking station, RCA connectors, and antenna.

**What is Sirius Satellite Radio?**

**For uncensored entertainment ... choose Sirius**

There's one reason why "shock jock" Howard Stern is moving to Sirius Satellite Radio ... no FCC censorship. This means users get 65 channels of uncensored music, and 55 channel of news, talk, and other entertainment where nothing's taboo. It all starts from Sirius' state-of-the-art studios, located in New York City's Rockefeller Center, where a dedicated team of jockeys are hard at work taking Sirius to the next level.

**More than 120 channels of the best in-car entertainment**

Only Sirius has 65 original music channels, from today's hits to R&B oldies to classical masterpieces. Sirius also offers authentic country and real bluegrass, cool jazz, hot latin hits, reggae, rock, and much more. Sirius also offers 55 channels of world-class sports, news and entertainment, like ESPN, The Speed Channel, CNBC, Fox News, Radio Disney and E! Entertainment Radio. With Sirius, the emphasis is on the music and entertainment you want. Best of all, Sirius' programming is hosted by master music programmers and today's hottest on-air personalities, such as Howard Stern. So tune into Sirius Satellite Radio.

**Rely on Sirius rocket science for superior coverage**

Only Sirius has three powerful satellites that fly directly above the United States to ensure coast-to-coast coverage. These orbits allow Sirius' satellites to broadcast from very high angles for a "clear line of sight," and a direct signal to your car without concern for buildings, trees or other objects that might block other satellite radio signals.

**Count on S>PLEX technology for superior sound resolution**

Sirius employs S>PLEX technology (statistical multiplexing), which optimizes the fidelity on each channel to give you superior digital sound. So rock really soars and jazz really jams. Once you experience Sirius' more than 120 channels of digital entertainment, you'll never want to leave your car. For more information, visit [siriusradio.com](http://siriusradio.com).



### ▶ DCZ625

#### 6-DISC CD CHANGER FOR CeNET

- 6-Disc Magazine
- Plays CD-R and CD-RW Discs
- 8x Oversampling Digital Filter
- Horizontal or Vertical Mounting Capability
- Fiber Optical Digital Output
- CD Text and CD Titling
- CeNET

### ▶ DC625

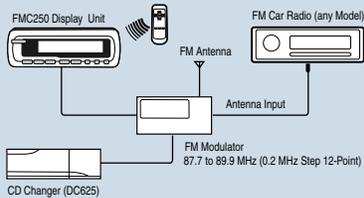
#### 6-DISC CD CHANGER FOR C-BUS

- 6-Disc Magazine
- Plays CD-R and CD-RW Discs
- 8x Oversampling Digital Filter
- Horizontal or Vertical Mounting Capability
- C-BUS



#### Play Back CD Sound on Any FM Car Radio

The FMC250 controls a Clarion CD changer and plays back the sound via your FM car radio — no matter which brand. The FMC250 hideaway unit connects between your FM radio antenna input and the car antenna. Simply tune your radio anywhere from 87.7 to 89.9 MHz (0.2 MHz step 12-point) and listen to superior Hi-Fi CD sound in full stereo from the connected Clarion CD changer.



#### Compact for Installation Anywhere

The DCZ625 and DC625 are so compact that they will fit almost anywhere inside the car —



inside the glove box, center-console compartment, or hanging under the dash. They say good things come in small packages — the DCZ625 and DC625 are just such packages.

#### Accessories complete the system.

From extra magazines to an iPod source-unit interface, Clarion has the accessories you need to complete the ultimate dream system.



### ▶ FMC250

#### C-BUS CD CHANGER CONTROLLER WITH FM MODULATOR

- Play/Pause Selector
- Repeat Play
- Random/Scan Play
- Track Search
- Disc Selector
- Software Controlled Setup
- Flush Mounting Bracket Included



## Accessories

#### EA1251B

##### CeNET iPod INTERFACE

- Compatible With CeNET-equipped source unit



#### CCA519

##### CeNET Y-ADAPTOR FOR MULTI-CHANGER CONNECTION



#### CAA397

##### 6-DISC MAGAZINE FOR DCZ625, DC625, AND VCZ625 CHANGERS

#### CAA355

##### 6-DISC MAGAZINE FOR CDC655TZ, CDC635, XM655-RET CHANGERS

#### FM200

##### FM MODULATOR

- 2-Channel RCA Audio Output
- On/Off Switch
- Volume Level Control



#### CCA329

##### C-BUS 16' FOOT REPLACEMENT CHANGER CABLE

#### CCA561

##### CeNET 16' REPLACEMENT CHANGER CABLE

#### CCA520

##### CeNET 8' M/F EXTENSION CABLE

#### CCA521

##### CeNET 20.5' M/F EXTENSION

#### DCA005

##### 16' FIBER OPTIC CABLE FOR 2004 SOURCE UNIT SIDE TO DVH940

#### DCA006

##### 16' FIBER OPTIC CABLE FOR 2001 SOURCE UNIT SIDE TO DVH940

#### DCA007

##### 16' FIBER OPTIC CABLE FOR 2004 SOURCE UNIT SIDE TO DPH910/DVS9755Z BOX

#### DCA008

##### 5' FIBER OPTIC CABLE FOR 2004 SOURCE UNIT SIDE TO DVH940

Adding this Half-DIN Equalizer provides a system with 7 bands of equalization, built-in high- and low-pass crossovers, and a 6-channel/7-volt output, subwoofer level control.



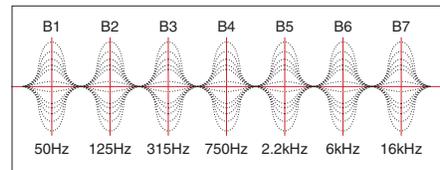
► **EQS744**

**HALF-DIN GRAPHIC EQ/CROSSOVER**

- 7-Band Graphic Equalizer
- Selectable Main and Aux. Inputs
  - Subwoofer Level Control
  - Selectable Subwoofer Low-Pass Frequency: 60Hz or 90Hz
- 6-Channel/7-Volt RCA Line Level Output

**Take Control With Clarion's 7-Band Graphic Equalizer**

Clarion's reputation for creating high quality EQs dates back to the dawn of the car audio industry. Bottom line, we know how to put sound enthusiasts in control of their sound system. The legacy continues with the EQS744 7-band graphic equalizer, a unit offering a high signal-to-noise ratio with its 7-volt RCA output, as well as superior control with frequency adjustments in the 50kHz-to-16kHz range over seven bands. This means users can get the most out of their sound system, as well as the ability to contour the sound output to their musical tastes. This is especially important when utilizing an external audio source, such as a portable DVD player, TV tuner or VCR, through the AUX input.



This versatile 3-Way Electronic Crossover offers inputs for two- or three-way system setups with rear fader control. Users also get a wired remote subwoofer level control.



► **MCD360**

**3-WAY ELECTRONIC CROSSOVER**

- 18 dB/oct. Slope
- Front/Rear Subwoofer Level Control
- Built-In Bass EQ
- Remote Subwoofer Level Control (Included)
  - Cross Frequency Multiplier
  - 2/4/6-Channel Inputs / Separate F/R Crossover
- 6-Channel Line Level Outputs

# Clarion Marine Products for 2005...

## Rocking Boats Everywhere

### **Making Waves With Top-Notch Audio Entertainment ... Clarion Marine Audio**

There's nothing like spending a day out on the water – friends, family, food, drinks and some tunes. It inspires a feeling you can't get anywhere else. It's that feeling that Clarion has been in pursuit of for years, creating products that not only sound good, but were designed specifically for the marine environment ... Introducing Clarion's 2005 marine-based product line. Within the next five pages, you'll see three new source units, two new wired remotes, a powerful amplifier line, and an all-new speaker line that speaks to Clarion's 2005 motto: "Bigger Is Better."



Illustrated above is the CMD4's watertight Quick-Release Door, which provides protection against rain and washdowns.

#### Setting the Standard

When we make marine-based source units, we don't just slap on marine-like cosmetics and call it a day. What we have done is spent years perfecting our ability to design and engineer water-resistant and UV-resistant source units. Introducing Clarion's new CMD4, a source unit designed to resist splashdowns, rain, and whatever the marine environment throws its way. The difference is more features, and a new cosmetic design. Bottom line, the CMD4 sounds as good as it looks.

#### Quick-Release Door With Watertight Seal

Clarion's unique rubber gasket and door assembly offer the CMD4's internal components complete water protection. Enduring 10,000 duty cycles of testing, this type of innovation is nothing new to Clarion. Our designs have been the industry reference for years, offering unparalleled durability under extreme conditions. This design also allows for easy, one-touch CD loading, making the unit both functional and reliable.

#### Integrated Drip Shield, Mounting Gasket and Bracket

This design protects the source unit's chassis from front-panel leakage and seals the bulkhead to further augment the water-resistant faceplate equipping the CMD4. This design also provides maximum chassis support and allows for easy installation.

#### The Industry Reference

What makes Clarion's marine speakers the best? Attention to detail. We pride ourselves on our speakers' ability to reproduce sound that's second to none. From the titanium dome tweeters to the polypropylene mid-woofer cone, rubber insulated leads, and gold-plated terminals, Clarion's marine speakers were made to handle the marine environment. We take it a step further when it comes to the speaker grilles and frames, creating them out of a non-corrosive, high-impact material called Centrex 814. Its properties make it resistant to cracking and discoloration. No one else can tout this type of durability, because at Clarion, we do it right.

#### MOS-FET Amplification

There's only one way for Clarion's marine-based source units to supply unyielding power output and superior linearity: MOS-FET amplification. Smaller and more efficient than conventional power supplies, the MOS-FET amplification circuit delivers power with less distortion and zero On/Off switching noise. So crank it up, or turn it down for easy listening. Either way, your music will never sound quite like this.

#### Marine Power Amplifier

A marine amplifier is essential in marine applications where engine noise and high ambient noise, such as wind and water, competes with the sound system. Without an amplifier, cranking up the volume only means one thing: increased distortion and damage to your speakers. It's a known fact in the audio world that an amplifier does more than increase a system's volume level. It reduces distortion at high volume levels, resulting in music reproduction that's crisp, clean and powerful.

#### New Sport Series Speakers

Clarion is introducing its most aggressive speaker lineup yet, as it unveils all-new seven-inch designs. The innovation starts with its Sport Series line, which includes a seven-inch coaxial and a 10-inch subwoofer. Both utilize a durable polypropylene cone, as well as a new cosmetic design. Clarion is also coming to market with three new seven-inch and three new 6.5-inch speaker solutions. Rounding out this lineup is an additional 10-inch subwoofer. This is a line you can get wet, because, at Clarion, we don't sacrifice quality in our pursuit of listening perfection.



Clarion's marine speakers were built to resist virtually anything the marine environment throws its way. This year, we introduce an all-new line that speaks to our motto in 2005: "Bigger Is Better."

# MARINE AUDIO SYSTEM

## REMOTE CONTROL



CMRC1-SB



CMRC2-SB

## SOURCE UNITS



CMD4



M455

## SIRCL I

SIRIUS SATELLITE RECEIVER

## SOURCE UNIT



M255

## CD CHANGER



DCZ625

## EXTERIOR SPEAKERS



CM1635

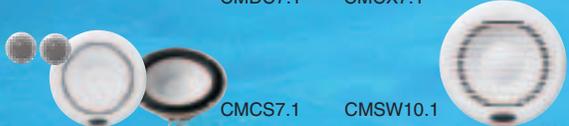
CM1625

CM1605



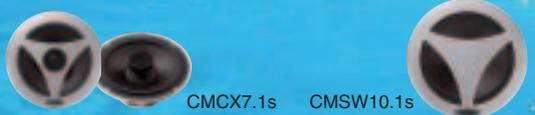
CMDC7.1

CMCX7.1



CMCS7.1

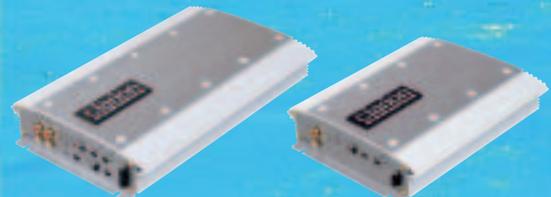
CMSW10.1



CMCX7.1s

CMSW10.1s

## POWER AMPLIFIERS



APX480M

APX280M



▶ **CMD4** **NEW**

**MARINE AM/FM CD PLAYER WITH CeNET CONTROL AND WATERTIGHT FACEPLATE**

- Meets or Exceeds ASTM B117 (Salt/Fog Exposure)
- Meets or Exceeds ASTM D4329 (UV Exposure)
- CD Player
- Plays CD-Rs and CD-RWs
- CeNET Control of Optional CD Changer and Sirius Satellite Radio Receiver
- iPod Control (Requires EA1251B)
- Wired Remote Control Ready
- Integrated Drip Shield and Mounting Bracket
- Pengal Z Coated PCB
- Adjustable Display Contrast
- Rotary Volume Control
- 212 Watts (53 Watts x 4 Channels)
- 2-Band Parametric EQ
- 6-Channel RCA Line Level Output
- CD and Station Titling
- 18FM/6AM Presets
- Adjustable AUX Input



▶ **CMRC1-SB** **NEW**

**MARINE REMOTE CONTROLLER WITH LCD FOR CMD4 & M455**



▶ **CMRC2-SB** **NEW**

**MARINE REMOTE CONTROLLER WITHOUT LCD FOR CMD4 & M455**



▶ **M455** **NEW**

**MARINE AM/FM CD PLAYER / CeNET CONTROL**

- Plays CD-Rs and CD-RWs
- 2-Band Parametric EQ
- Built-In Adjustable Low-Pass Crossover: 50Hz/80Hz/120Hz
- 208 Watts (52 Watts x 4 Channels)
- 4-Channel RCA Line Level Output
- Z-Enhancer Plus, Magna Bass EX
- Rotary Volume Control
- Screen Saver With User-Programmable Message Information
- Adjustable Display Contrast
- Detachable Control Panel
- Pengal Z Coated PCB
- CD and Station Titling
- Magi-Tune+ Tuner (18FM/6AM Presets)
- CeNET Control of Optional TV Tuner, 6-Disc CD Changer and Sirius Satellite Radio Receiver
- iPod Control (Requires EA1251B)
- Adjustable AUX Input
- Wired Remote Control Ready



▶ **M255** **NEW**

**MARINE AM/FM CD PLAYER**

- Plays CD-Rs and CD-RWs
- Magna Bass EX
- Z-Enhancer
- 200 Watts (50 Watts x 4 Channels)
- 2-Channel RCA Line Level Output
- Rotary Volume Control
- Magi-Tune Tuner With 18FM/6AM Presets
- Detachable Control Panel





## ▶ DCZ625

### 6-DISC CD CHANGER FOR CeNET

- 6-Disc Magazine
- Plays CD-R and CD-RW Discs
- 8x Oversampling Digital Filter
- Horizontal or Vertical Mounting Capability
- Fiber Optical Digital Output
- CD Text and CD Titling
- CeNET

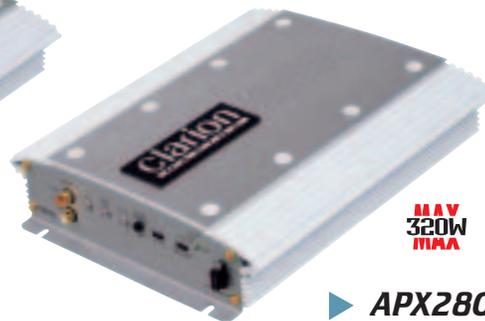


## ▶ APX480M

### 4/3/2-CHANNEL POWER AMPLIFIER

- 640 Watts of Max Power Output
- Continuous 320-Watt Average Power Output (80W x 4 Into 4 Ohms, 20Hz-20kHz @ 0.05%THD)
- Typical 2-Ohm Stereo 115W x 4 @ 0.2% THD
- Bass Extender Control 0-15dB @ 45 kHz
- Adjustable 55Hz-550Hz, 12dB/oct. High- / Low-Pass

- Crossover
- Mixed-Mode Operation
  - 4- / 3- / 2-Channel Operation
  - MOS-FET Output Design
  - Speaker Level Inputs
  - 640 Watts of Max Power Output
  - Fully Painted Non-Corrosive Heat Sink
  - Conformally Coated Double-Sided FR4 PC Board



## ▶ APX280M

### 2/1-CHANNEL POWER AMPLIFIER

- Maximum 320-Watt Power Output
- Continuous 160-Watt Average Power Output (80W x 2 Into 4 Ohms, 20Hz-20kHz @ 0.05% THD)
- Typical 2-Ohm Stereo 125W x 2 @ 0.2% THD
- Typical Bridged Power 1kHz 250W x 1 @ 0.2% THD
- Bass Extender Control 0-15dB @ 45 kHz
- Adjustable 55Hz-550Hz, 12dB/oct. High- / Low-Pass Crossover
- Mixed-Mode Operation
- Fully Painted Non-Corrosive Heat Sink
- Conformally Coated Double-Sided FR4 PC Board



Input: MAX  
350W

## ▶ CMSW10.1 NEW

### 10" WATER-RESISTANT MARINE SUBWOOFER

- Water Resistant
- Meets or Exceeds ASTM B117
- Meets or Exceeds ASTM 04329 (UV Exposure)
- 10" Polypropylene Cone
- Sanoprene Rubber Surround
- High-Impact Centrex 814 Grille & Frame
- Protected Magnet and Rear-Cone Design
- Water Drainage Channel
- Rubber Insulated Tinsel Leads
- Speaker Cable Support Tab
- Gold-Plated Speaker Terminals
- Stainless Steel Mounting Hardware
- Rubber Mounting Gasket
- Optimized for Infinite Baffle Application
- 350-Watt Power Handling



Input: MAX  
350W

## ▶ CMSW10.1s NEW

### 10" SPORT SERIES MARINE SUBWOOFER

- Water Resistant
- Meets or Exceeds ASTM B117
- Meets or Exceeds ASTM 04329 (UV Exposure)
- 10" Polypropylene Cone
- Sanoprene Rubber Surround
- High-Impact Centrex 814 Grille & Frame
- Protected Magnet and Rear-Cone Design
- Water Drainage Channel
- Rubber Insulated Tinsel Leads
- Speaker Cable Support Tab
- Gold-Plated Speaker Terminals
- Stainless Steel Mounting Hardware
- Rubber Mounting Gasket
- Optimized for Infinite Baffle Application
- 350-Watt Power Handling

▶ **CM1635** **NEW**

**6 1/2" Component Marine Speaker System**

- Water Resistant • Meets or Exceeds ASTM B117 (Salt/Fog Exposure) • Meets or Exceeds ASTM D4329 (UV Exposure) • 6 1/2" Polypropylene Woofer Cone • 1" Titanium-Coated Dome Tweeter • Sanoprene Rubber Surround • High-Impact Centrex 814 Grille/Frame • Protected Magnet and Rear Cone Design • Liquid Drainage Channel • Rubber Insulated Tinsel Leads • Speaker Cable Support Tab • Gold-Plated Speaker Terminals • Stainless Steel Mounting Hardware • Rubber Mounting Gasket • 100-Watt Power Handling

▶ **CM1625** **NEW**

**6 1/2" COAXIAL MARINE SPEAKER**

- Water Resistant • Meets or Exceeds ASTM B117 (Salt/Fog Exposure) • Meets or Exceeds ASTM D4329 (UV Exposure) • 6 1/2" Polypropylene Woofer Cone • 3/4" Titanium-Coated Dome Tweeter • Sanoprene Rubber Surround • High-Impact Centrex 814 Grille/Frame • Protected Magnet and Rear Cone Design • Liquid Drainage Channel • Rubber Insulated Tinsel Leads • Speaker Cable Support Tab • Gold-Plated Speaker Terminals • Stainless Steel Mounting Hardware • Rubber Mounting Gasket • 100-Watt Power Handling

▶ **CM1605** **NEW**

**6 1/2" DUAL CONE MARINE SPEAKER**

- Water Resistant • Meets or Exceeds ASTM B117 (Salt/Fog Exposure) • Meets or Exceeds ASTM D4329 (UV Exposure) • 6 1/2" Dual Polypropylene Woofer Cone • Sanoprene Rubber Surround • High-Impact Centrex 814 Grille/Frame • Protected Magnet and Rear Cone Design • Liquid Drainage Channel • Rubber Insulated Tinsel Leads • Speaker Cable Support Tab • Gold-Plated Speaker Terminals • Stainless Steel Mounting Hardware • Rubber Mounting Gasket • 100-Watt Power Handling



▶ **CMCS7.1** **NEW**

**7" COMPONENT MARINE SPEAKER SYSTEM**

- Water Resistant • 1.2" Titanium Dome Tweeter • Meets or Exceeds ASTM B117 (Salt/Fog Exposure) • Meets or Exceeds ASTM D4329 (UV Exposure) • 7" Polypropylene Woofer Cone • Flush and Surface Tweeter Mounts • Integrated Passive Crossover • Sanoprene Rubber Surround • High-Impact Centrex 814 Grille/Frame • Protected Magnet and Rear Cone Design • Liquid Drainage Channel • Rubber Insulated Tinsel Leads • Speaker Cable Support Tab • Gold-Plated Speaker Terminals • Stainless Steel Mounting Hardware • Rubber Mounting Gasket • 160-Watt Power Handling

▶ **CMCX7.1s** **NEW**

**SPORT SERIES 7" COAXIAL MARINE SPEAKER**

- Water Resistant • 1.2" Titanium Dome Tweeter • Meets or Exceeds ASTM B117 (Salt/Fog Exposure) • Meets or Exceeds ASTM D4329 (UV Exposure) • 7" Polypropylene Woofer Cone • Sanoprene Rubber Surround • High-Impact Centrex 814 Grille/Frame • Protected Magnet and Rear Cone Design • Liquid Drainage Channel • Rubber Insulated Tinsel Leads • Speaker Cable Support Tab • Gold-Plated Speaker Terminals • Stainless Steel Mounting Hardware • Rubber Mounting Gasket • 160-Watt Power Handling

▶ **CMCX7.1** **NEW**

**7" COAXIAL MARINE SPEAKER**

- Watertight • 1.2" Titanium Tweeter • Meets or Exceeds ASTM B117 (Salt/Fog Exposure) • Meets or Exceeds ASTM D4329 (UV Exposure) • 7" Polypropylene Woofer Cone • 1" Titanium-Dome Tweeter • Sanoprene Rubber Surround • High-Impact Centrex 814 Grille/Frame • Protected Magnet and Rear Cone Design • Liquid Drainage Channel • Rubber Insulated Tinsel Leads • Speaker Cable Support Tab • Gold-Plated Speaker Terminals • Stainless Steel Mounting Hardware • Rubber Mounting Gasket • 160-Watt Power Handling

▶ **CMDC7.1** **NEW**

**7" DUAL CONE MARINE SPEAKER**

- Watertight • Meets or Exceeds ASTM B117 (Salt/Fog Exposure) • Meets or Exceeds ASTM D4329 (UV Exposure) • 7" Dual Polypropylene Woofer Cone • Sanoprene Rubber Surround • High-Impact Centrex 814 Grille/Frame • Protected Magnet and Rear Cone Design • Liquid Drainage Channel • Rubber Insulated Tinsel Leads • Speaker Cable Support Tab • Gold-Plated Speaker Terminals • Stainless Steel Mounting Hardware • Rubber Mounting Gasket • 120-Watt Power Handling

The **ProAudio**™ Company

Clarion  
Amplifiers  
for 2005...

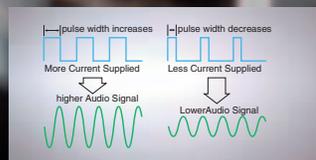
## Providing Music Fans With Three Levels of Unwavering Power

**If power is what you crave,  
check out Clarion's full-line of  
high-powered amplifier**

Clarion's 2005 amplifier line will satisfy all your power needs. It all starts with the audiophile-grade APA4300HX, a full-featured amplifier created as the perfect compliment to Clarion's DRZ9255 — matching it both in performance and in cosmetics. For power and versatility, Clarion offers its APA4320 and APA2160. Small in design, great in cosmetics, and packed with great features, these two amplifiers can accommodate big system buildups without taking up a lot of space. For those looking for power with a conscience, Clarion offers its APA2001, APA450, and APA250 amplifiers. These three amps provide great power to a system without breaking the bank. So let Clarion pump your system with unbridled, life-giving power with its full-line of high-quality amplifiers.

**Pulse-Width Regulated MOS-FET Power Supplies**

Aside from the performance benefits, MOS-FET power supplies allowed Clarion to employ a smaller footprint when it came to the design of its APA4300HX, APA4320, and APA2160. Providing better heat dis-



sipation and efficiency, pulse-width regulation adjusts the width of a power supply's switching pulses. So when music dynamics increase, the pulses stay ON longer to charge the power supply's capacitors

**2-Ohm Stability (APA4320/2160)**

Utilizing this design, Clarion's amplifiers can drive lower impedance loads for increased power.

**Gapped E Core Choke Coils (APA4320/2160)**

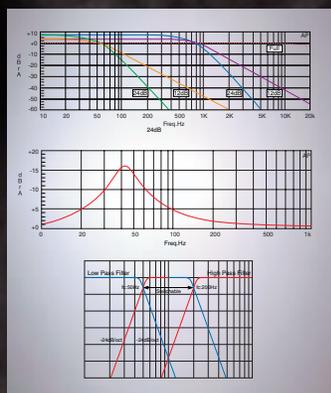
Utilized in the power supply circuitry, Gapped E Core Choke Coils offer low impedance, making them resistant to harmful magnetic noise.



This results in a more efficient amplifier and a low-noise power supply, which is important when achieving crystal clear sound.

**Variable High/Low-Pass Crossover**

Utilized by all Clarion amplifiers, this feature allows for extreme flexibility when designing a system. The crossovers can be adjusted and tuned to provide optimal speaker performance, whether powering a subwoofer or satellite speakers. (APA4300HX: -24dB/oct., 50Hz-500Hz; APA4320 / 2160: -12dB/oct., 55Hz to 550Hz; APA2100: 50Hz-250Hz; APA450: 55Hz-5.5kHz; APA230: 55Hz-5.5kHz).



**Gold-Plated RCA and Block Terminal on all ProAudio Amplifiers**

Known for their increased conductivity and low signal loss, gold-plated RCA and block terminals provide a clean connection with minimal



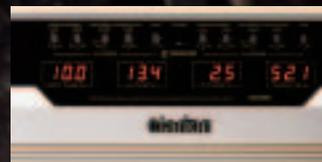
resistance to the RCA inputs, speaker outputs, and power connections. This prevents voltage drops, noise, heating, and other problems from affecting the performance of a sound system.

**Space-Saving Design With High Heat Dissipation (APA4320/2160)**

APA Series amps feature a die-cast design that boasts countless heat sinks for high-heat dissipation, eliminating the need for an internal fan. Also preventing overheating is the amplifier's circuit design that inhibits heat dispersal. This heat dispersal effect is maximized during consecutive drives for high power in minimal space.

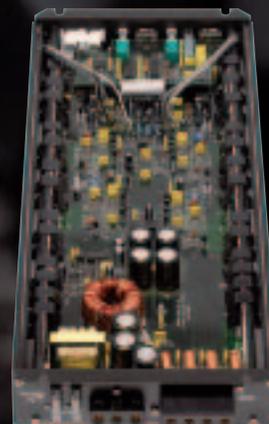
**4-Part Digital Meter (APA4300HX)**

Clarion allows you to stay in tune with your amplifier by equipping it with a 4-Part digital meter. Monitor your amp's real-time power output level and consumption, voltage level and internal temperature.



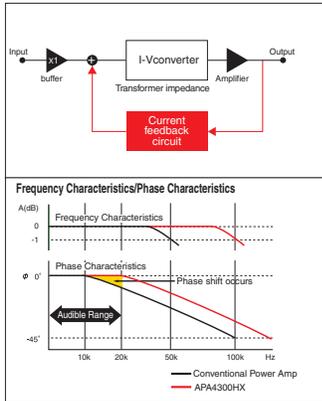
**Circuit Design Achieves High Quality Sound**

Encompassing a host of high quality components, Clarion's APA series amps take your music to whole new level. Touting uncompromising resistance to magnetic noise, the circuit design utilized by Clarion's amplifiers allow for easy subwoofer system configurations using its embedded high-pass and low-pass filters. Offering low electrical and contact resistance for crystal clear sound is Clarion's high-grade, gold-plated block terminals. These amps also boast 2-ohm stability for increased power and reliability when connected to speakers with 2-ohm loads. To put it simply, Clarion's line of amplifiers tout superior power and versatility.



The APA4320 utilizes the most advanced internal components. The result is superior audio performance for your system.

# Unlimited Potential for Sound That Envelopes the Senses.



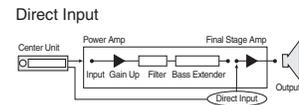
**Current Feedback Amplification Circuit**  
By employing a current feedback amplification circuit, Clarion's APA4300HX paves the way to high-definition audio formats such as DVD-Audio. This unique design maximizes the potential of an amplifier, allowing it to realize even ultra-high frequency levels of 100kHz. This wideband, high-speed amplification circuit also ensures stable phase characteristics and response.

**Melding Rich Sound With Crystal Clear Harmonics**  
Fielding ultra-high frequency sound in the range of 100kHz, this amplification circuit provides your music with additional harmonic elements while maintaining the main frequency element. The result is added dimension to your sound.

**Ultra High-Range Reproduction Cancels Phase Shift**  
Unlike conventional amps, which allow phase shifts of high-range frequencies to become audible, Clarion's APA4300HX — equipped with a current feedback amplification circuit — cancels these sound-hindering interruptions. The result is crystal clear sound.

**Aluminum Heat Sinks and Forced Cooling Fan**  
For superior heat dissipation, Clarion's APA4300HX employs a large, tunnel-shaped sub heat sink, as well as an internal, heat-sensitive fan. Located to the center of the chassis, the fan adds additional heat protection to internal parts. This means the amplifier will maintain peak performance even when operating under extreme conditions.

**Direct Input Terminal**  
The longer an audio signal travels the more chance there is for sound quality degradation. By employing a direct input terminal, the audio signal travels a shorter distance from input to output during amplification, allowing the signal to maintain its original form. The straight and non-contact circuit also eliminates any contact points that can potentially harm your system's sound quality. This results in a smooth signal transfer and superior performance.



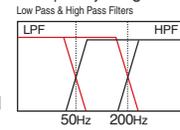
**Power Guard Circuit**  
The APA4300HX's input stage prevents the generation of clipping distortion by holding down the gain when overdrive distortion is detected at the output stage. By removing only distortion elements, the amplifier protects your speakers from potential damage while also maintaining its superior sound qualities.



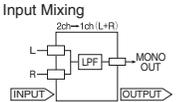
**4-Part Digital Meter**  
Stay in tune with your amplifier with the APA4300HX's 4-Part digital meter. Monitor your amp's real-time power output level and consumption, voltage level and internal temperature.



**Low-Pass and High-Pass Filters**  
Outfitted with built-in low-pass and high-pass filters (-24 dB/oct.), the APA4300HX allows for adjustment in the 50Hz to 200Hz frequency range over all channels. This setup is ideal when operating a system that touts multiple amplifiers and subwoofers.



**Input Mixing**  
Clarion equips its APA4300HX with an input mixing function, a key feature when bridging the left and right signals. Combined with the unit's built-in low-pass and high-pass filters, users get an amplifier that harmoniously complements a low-frequency-fielding subwoofer.



**Low-Loss High-Output Power Supply**  
The APA4300HX's input stage prevents the generation of clipping distortion by holding down the gain when overdrive distortion is detected at the output stage. By removing only distortion elements, the amplifier protects your speakers from potential damage while also maintaining its superior sound qualities.



## APA4300HX 4/3/2-CHANNEL AMPLIFIER

- Bridgeable for 3- or 2-Channel Mode Operation
- Power Guard Circuit
- Low-loss Power Supply With High Power Output
- Continuous Average Power Output: 300 Watts (4 Channels x 75 Watts into 4 Ohms, 20 Hz-20 kHz, 0.002 % THD)
- Maximum Power Output: 600 Watts (150 Watts x 4 Channels into 4-ohms)
- Stable down to 1-Ohm Load (High Current)
- Variable 4-Channel Low-Pass and High-Pass Filter (50-200Hz)
- Bass Extender (40~120 Hz, 0~+12 dB)
- Direct Input
- Digital Display With 4-Part Status Information
- Aluminium Housing With Built-In Cooling Fan
- 100 kHz for Extremely High Frequency Reproduction
- Dolby Digital/dts Ready



**MAX  
600W  
RMS**



**MAX  
320W  
MAX**

APA2160

**MAX  
640W  
MAX**

APA4320

**Striking a Chord Through Cosmetic Functionality**



With countless heat sinks, a striking aluminum die-cast body, and an attractive center emblem, Clarion demonstrates its pursuit for cutting-edge looks and performance through flawless execution. Working two-fold, the design not only boasts progressive aesthetics, but also the ability to maximize heat dissipation effects for high-power performance in minimal space. On the heels of perfection, Clarion leaves no stone unturned with a design that melds functionality and eye-popping cosmetics.

**Outstanding System Upgradeability**

Touting versatility and flexibility, Clarion's amplifiers are the perfect compliment to any multiple subwoofer and amplifier setup. Because of its built-in low-pass and high-pass filters, the amplifiers allow for adjustment in the 50Hz to 550Hz frequency range over all channels. They can also be switched to handle higher frequency ranges between 550Hz to 5,500Hz with a simple touch of a button. The amplifiers also tout input mixing for additional adaptability when wiring the amplifiers in a bridged configuration, allowing the left and right input signals to adequately feed a low-frequency-fiedling subwoofer.

▶ **APA2160**

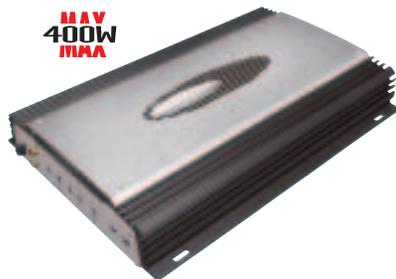
**2/1-CHANNEL AMPLIFIER**

- Maximum Power Output 320 Watts
- Continuous Average Power Output 160 Watts (80 Watts x 2 Channels Into 4 Ohms, 20Hz-20kHz @ 0.05% THD) • Typical 2-Ohm Stereo 125 Watts x 2 Channels @ 0.2% THD • Bridged Power 250 Watts x 1 Channel @ 0.2% THD • Bass Extender Control 0~15dB @ 45Hz • Adjustable 55Hz-550Hz, 12dB/oct. High-/Low-Pass Crossover
- Mixed Mode Operation • Built-In Bridging Capability • MOSFET Output Design • Speaker Level Inputs • Double-Sided FR4PC Board

▶ **APA4320**

**4/3/2-CHANNEL AMPLIFIER**

- Maximum Power Output 640 Watts
- Continuous Average Power Output 320 Watts (80 Watts x 4 Channels into 4 Ohms 20Hz-20kHz @ 0.05% THD) • Typical 2-Ohm Stereo 115 Watts x 4 Channels @ 0.2% THD • Typical 2-Ohm Bridged Power 230 Watts x 2 Channels @ 0.2% THD
- Bass Extender Control 0~15dB @ 45Hz • Adjustable 55Hz-550Hz, 12dB/oct. High-/Low-Pass Crossover • Mixed Mode Operation • 4/3/2-Channel Operation • MOSFET Output Design • Speaker Level Inputs • Double-Sided FR4 PC Board



**MAX  
400W  
MAX**

▶ **APA2001**

**MONO AMPLIFIER**

- Maximum Power Output 400 Watts
- Continuous Average Power Output 200 Watts Into 4 Ohms • Typical 2-Ohm Mono Power 1kHz 230 Watts • Switchable Bass Boost at 0dB/6dB/12dB • Adjustable 50Hz-250Hz, 12dB/oct. High-/Low-Pass Crossover • Speaker Level Inputs



**MAX  
400W  
MAX**

▶ **APA450**

**4/3/2-CHANNEL AMPLIFIER**

- Maximum Power Output 400 Watts
- Continuous Average Power Output (50 Watts x 4 Channels Into 4 Ohms 20Hz-20kHz) • Typical 2-Ohm Stereo 100 Watts x 4 Channels • Switchable Bass Boost at 0dB/6dB/12dB • Adjustable 50Hz-250Hz, High-/Low-Pass Crossover • Bridgeable 4-/3-/2-Channel Operation • Speaker Level Inputs



**MAX  
200W  
MAX**

▶ **APA250**

**2/1-CHANNEL AMPLIFIER**

- Maximum Power Output 200 Watts
- Continuous Average Power Output 100 Watts (50 Watts x 2 Channels Into 4 Ohms 20Hz-20kHz) • Typical 2-Ohm Stereo 100 Watts x 2 Channels @ 0.5% THD • Switchable Bass Boost Control 0dB/6dB/12dB • Adjustable 50Hz-250Hz, High-/Low-Pass Crossover • Speaker Level Inputs

# Clarion Subwoofers/Speakers for 2005...

## Polypropylene Cone (Subwoofer)

It's true that polypropylene is a widely used speaker cone material. And for good reason. Unlike paper cones, which sometimes add a "crispy" sound, polypropylene cones offer a natural, smooth and well-behaved frequency response. And because of its durability, polypropylene expands the life of your speaker — even in the rigorous in-car environment. So, for consistent low-frequency response, there's only one choice ... Clarion.

## Dual 4-Ohm Voice Coils (Subwoofer)

Clarion's subwoofers utilize dual voice coils for linear tracking of large amplitude input signals. Dual coils reduce the counter electromotive force, which often occurs in the high-range bands. It also prevents variations in the woofer's impedance to eliminate distortion. Employing a dual voice coil configuration — which provides extremely high magnetic efficiency — the woofers also allow for powerful magnetic operation. This results in a subwoofer that is efficient, powerful, and boasts high sensitivity.

## Glass-Fiber Woofer Cone

With its woven glass fiber material, Clarion's ProAudio speaker cones tout the type of rigidity that will stand up to the rigorous in-car environment. This material also produces little to no distortion because of its ability to prevent the cone from flexing during high input levels. The result is rich, full bass that harmoniously melds with tight, accurate music reproduction.

## "In Phase" Coaxial Design

A key component to experiencing natural sound imaging and staging is ProAudio's In Phase Coaxial Design. This type of tweeter configuration minimizes the phase differential between the woofer and tweeter, and prevents the time lag between high and low frequency sounds from being audible to the listener.

## Silk Dome Tweeters

By incorporating silk dome tweeters, Clarion's ProAudio speakers provide a system with a velvety-smooth, delicate and open treble performance. Blending the suppleness and a level of stiffness that provides your sound system with superior detail, these silk soft dome tweeters can sense minute signals even at low input levels. This revolutionary design also provides ProAudio's soft dome tweeters with a frequency response in excess of 80kHz/120kHz.

## Dual Neodymium Tweeter Magnet

For superb sound reproduction, Clarion's ProAudio tweeters utilizes a Dual Neodymium magnet, which boasts extremely high magnetic energy — approximately 10 times that of typical ferrite magnets. With a magnetic flux density that far surpasses conventional speakers, the neodymium magnet also reduces magnetic distortion and touts high-energy efficiency.

## Strontium Magnet

There's a reason why Clarion's speaker systems add superior dimension to your music without compromising sound. Equipped with a highly conductive strontium magnet, Clarion's speaker systems tout a magnetic flux density that is significantly higher than conventional ferrite magnets. This is especially important when matching Clarion's speaker systems with a digital source.

## Mica-Injected Polypropylene Cone

By blending mica particles into the polypropylene material injected into the molded cones, Phase 1 speakers remain rigid under intense power, ensuring distortion-free performance. This is especially important when the speakers are matched with a digital source. (SRR1615, SRR6915, SRC4615, SRC5715)

## Metallized Mica-Injected Polypropylene Cone

The mica-injected polypropylene cones



utilized by Clarion's Phase 1 speakers use a metallized polypropylene compound to provide the lightness and rigidity

demand of today's speakers. Even when fielding fast transients — characteristic of digital sources — Phase 1 speakers generate superior dynamic response and crystal clear sound with very low distortion. (SRS1625, SRR1635, SRR1627, SRR1325, SRR1027, SRR6935, SRC925)

## Metallized PEI Balanced Drive Tweeter



Because of its superior physical properties that result in clearer output, polyether imide boasts high rigidity, high dura-

bility and high resistance to extreme heat. That's why Clarion has outfitted its Phase 1 Balanced Drive tweeters with an integrated PEI diaphragm and voice coil bobbin, which dramatically improves the dynamic range of any sound system. (SRS1625, SRR1635, SRR1627, SRR1325, SRR1027, SRC925, SRR1615, SRC4615, SRC5715)

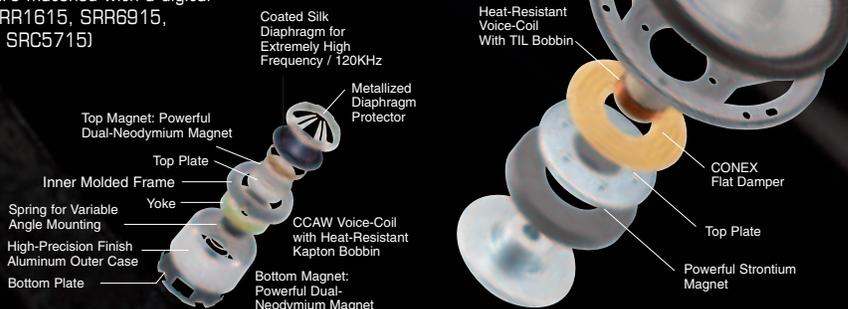
## Metallized PEI Cone Mid-range and Tweeter

Clarion's metallized PEI tweeter cone is impervious to heat and other ambient conditions prevalent inside a vehicle. This metallized cone creates an ultra-lightweight diaphragm, resulting in high efficiency and very fast dynamic response. (SRR6935, SRR6915)

## Counter Drive System in the SRV303 Powered Subwoofer

Providing you with the flexibility you need to get dynamic bass performance without sacrificing a lot of space, Clarion's incorporates its proprietary Counter-Drive system into its SRV303 Powered Subwoofer. This exclusive system is a method of mounting the driver magnet on the lid side of the woofer cone, allowing the 7" woofer to fit into its slim, compact body.

Counter Drive Structure



**Clarion provides the ultimate gateway to great sound with new subwoofers, and two speaker lines.**

If you're looking for the ultimate sound experience, Clarion's got what you need with two speaker lines, and six all-new subwoofers. For pure unadulterated bass response, Clarion hits hard with its new SW and SRW series subwoofers. Supported by a highly rigid stamped steel frame, Clarion's new line of subwoofers offer superior responsiveness and durability with their polypropylene cone and exclusively designed surround. This high-grade performance doesn't stop there, however, with Clarion's ProAudio and Phaze 1 speakers. Fielding high-definition sound is Clarion's ProAudio speaker line, outfitted with silk dome tweeter, and glass-fiber woofer cones. These are speakers meant for big system buildups. But if you're looking for the perfect OEM replacement solution, Clarion's Phaze 1 speaker line has what you need. These are speakers that don't require a lot of power to perform at high decibel levels. Providing great sounding speaker solutions, Clarion has exactly what you need.

# Invigorate the Senses With a New Type of performance

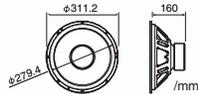
**SW12X** **NEW**

**12" SINGLE VOICE COIL SUBWOOFER**

- Polypropylene Cone
- Rubber Surround
- 4-Ohm Heat-Resistant Voice Coil
- Rear Vented Pole Piece
- Dual Strontium Ferrite Magnet
- Custom Rubber Magnet Cover
- Perfect for Compact-Designed Sealed/Vented Boxes
- Custom Designed Steel Stamped Frame
- Chrome-Plated Connector
- 600 Watts of Maximum Music Power
- Frequency Response: 20Hz-1.5kHz



**Input MAX  
600W**



**SW10X** **NEW**

**10" SINGLE VOICE COIL SUBWOOFER**

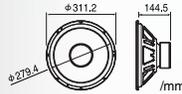
- Polypropylene Cone
- Rubber Surround
- 4-Ohm Heat-Resistant Voice Coil
- Rear Vented Pole Piece
- Dual Strontium Ferrite Dual Magnet
- Custom Rubber Magnet Cover
- Perfect for Compact-Designed Sealed/Vented Boxes
- Custom Steel Stamped Frame
- Chrome-Plated Connectors
- 600 Watts of Maximum Music Power
- Frequency Response: 20Hz-1.5kHz



**Input MAX  
600W**

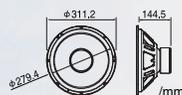
▶ **SRW1285** **NEW**  
**12" DUAL VOICE COIL SUBWOOFER**

- Polypropylene Woofer Cone
- Rubber Surround
- Dual 4-Ohm Heat-Resistant Voice Coil
- Rear Vented Pole Piece
- Dual Strontium Ferrite Magnet
- Custom Rubber Magnet Cover
- Perfect for Compact-Designed Sealed/Vented Boxes
- Custom Steel Stamped Frame
- 750 Watts of Maximum Power Handling
- Chrome-Plated Connector
- Frequency Response: 20Hz-1.5kHz



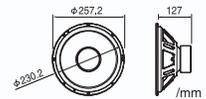
▶ **SRW1245** **NEW**  
**12" SINGLE VOICE COIL SUBWOOFER**

- Polypropylene Woofer Cone
- Rubber Surround
- 4-Ohm Heat-Resistant Voice Coil
- Rear Vented Pole Piece
- Dual Strontium Ferrite Dual Magnet
- Custom Rubber Magnet Cover
- Perfect for Compact-Designed Sealed/Vented Boxes
- 750 Watts of Maximum Music Power
- Frequency Response: 20Hz-1.5kHz



▶ **SRW1085** **NEW**  
**10" DUAL VOICE COIL SUBWOOFER**

- Polypropylene Woofer Cone
- Rubber Surround
- Dual 4-Ohm Heat-Resistant Voice Coil
- Rear Vented Pole Piece
- Dual Strontium Ferrite Dual Magnet
- Custom Rubber Magnet Cover
- Perfect for Compact-Designed Sealed/Vented Boxes
- Custom Steel Stamped Frame
- 650 Watts of Maximum Music Power
- Frequency Response: 20Hz-1.5kHz



▶ **SRW1045** **NEW**  
**10" SINGLE VOICE COIL SUBWOOFER**

- Polypropylene Woofer Cone
- Rubber Surround
- 4-Ohm Heat-Resistant Voice Coil
- Rear Vented Pole Piece
- Dual Strontium Ferrite Dual Magnet
- Custom Rubber Magnet Cover
- Perfect for Compact-Designed Sealed/Vented Boxes
- Custom Steel Stamped Frame
- 650 Watts of Maximum Power Handling
- Frequency Response: 20Hz-1.5kHz





## ▶ SRS1685 ProAudio

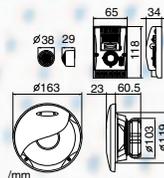
### PROAUDIO 6 1/2" WOOFER AND 3/4" TWEETER WITH CROSSOVER



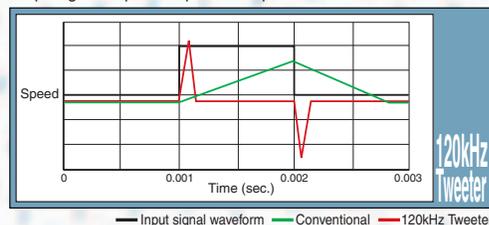
### A difference you can hear

Today's digital media is constantly pushing the limit of sound quality. Clarion's SRS1685 takes on this challenger with Super Tweeters capable of reproducing an amazing 120kHz. This makes Clarion's ProAudio speakers ideal for 5.1-channel applications. Additionally, the speaker system's glass-fiber woofer cone offers improved internal loss and sound propagation in order to accommodate the broader dynamic range of digital sources, such as DVDs, CDs and the new SACD (Super Audio CD) and DVD Audio formats. Clarion's SRS1685 is your source for dynamic looks and sound.

- 6 1/2" Glass-Fiber Cone Woofer With Rubber Surround
- Powerful Strontium Magnet for Dynamic Bass Response
- 3/4" Pure Silk Dome Tweeter With Dual Neodymium Magnet
- 2-Way Mounting Tweeter (Capable of Flush and Surface Mounting)
- High-Grade -12dB/oct. 2-Way Crossover Network With Level Attenuator (0, -3dB)
- Extremely High Frequency Reproduction/120kHz
- 200 Watts of Max Music Power
- GM & CHRYSLER Adaptor Included



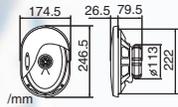
**120kHz Tweeter**  
Diaphragm Response Speed Comparison



▶ **SRR6985** ProAudio

**PROAUDIO "IN PHASE" 6" X 9" COAXIAL SPEAKER**

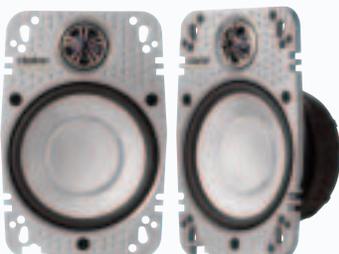
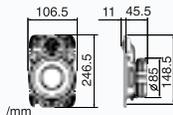
- 6" x 9" Glass-Fiber Woofer Cone With Rubber Surround
- "In Phase" Coaxial Design for Best Sound Quality and Imaging
- Powerful Strontium Magnet for Dynamic Bass Response
- 1" Pure Silk Dome Tweeter With Neodymium Magnet
- 280 Watts of Max Music Power



▶ **SRC4695** ProAudio

**PROAUDIO 4" X 6" 2-WAY PLATE SPEAKER**

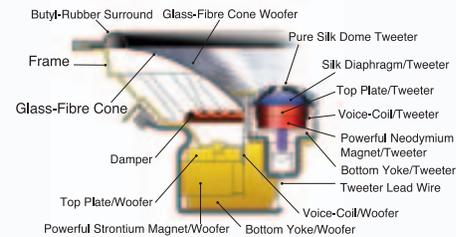
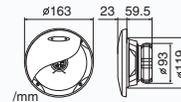
- 4" Glass-Fiber Woofer Cone With Rubber Surround
- Powerful Strontium Magnet for Dynamic Bass Response
- 3/4" Pure Silk Dome Tweeter With Dual Neodymium Magnet
- Extremely High Frequency Reproduction / 120kHz
- 140 Watt of Max Music Power



▶ **SRR1685** ProAudio

**PROAUDIO "IN PHASE" 6 1/2" COAXIAL SPEAKER**

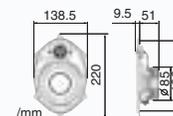
- 6 1/2" Glass-Fiber Woofer Cone With Rubber Surround
- "In Phase" Coaxial Design for Best Sound Quality and Imaging
- Powerful Strontium Magnet for Dynamic Bass Response
- 3/4" Pure Silk Dome Tweeter With Dual Neodymium Magnet
- 180 Watts of Max Music Power
- GM & CHRYSLER Adaptor Included



▶ **SRC5795** ProAudio

**PROAUDIO 5" X 7" 2-WAY PLATE SPEAKER**

- 5" Glass-Fiber Woofer Cone With Rubber Surround
- Powerful Strontium Magnet for Dynamic Bass Response
- 3/4" Pure Silk Dome Tweeter With Dual Neodymium Magnet
- 150-Watt Maximum Music Power

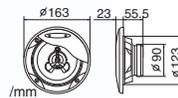




### ▶ **SRR1635**

#### **6 1/2" 3-WAY SPEAKER**

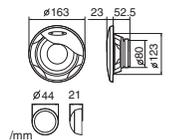
- 6 1/2" Metallized Mica-Injected Polypropylene Woofer Cone
- Powerful Strontium Magnet for Dynamic Bass Response
- 1 3/16" Metallized PEI Balanced Drive Mid-Range With Neodymium Magnet
- 5/16" Peizo Dome Tweeter
- 200 Watts Max Music Power
- GM & CHRYSLER Adaptor Included



### ▶ **SRS1625**

#### **6 1/2" SEPARATE SPEAKER WITH 1" PEI TWEETER**

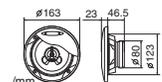
- 6 1/2" Metallized Mica-Injected Polypropylene Woofer Cone
- Powerful Strontium Magnet for Dynamic Bass Response
- 1" Metallized PEI Balanced-Drive Tweeter
- 2-Way Mounting Tweeter (Surface, Flush)
- In-Line -6dB/oct. Crossover Network
- 180 Watts of Max Music Power
- GM & CHRYSLER Adaptor Included



### ▶ **SRR1627**

#### **6 1/2" COAXIAL SPEAKER**

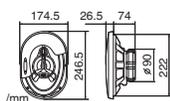
- 6 1/2" Metallized Mica-Injected Polypropylene Woofer Cone
- Powerful Strontium Magnet for Dynamic Bass Response
- 1 3/16" Metallized PEI Balanced-Drive Tweeter With Neodymium Magnet
- 180 Watts of Max Music Power
- GM & CHRYSLER Adaptor Included



### ▶ **SRR6935**

#### **6" X 9" 3-WAY SPEAKER**

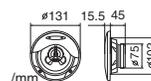
- 6" x 9" Metallized Mica-Injected Polypropylene Woofer Cone
- 2 5/8" Metallized PEI Cone Mid-Range
- 5/8" Peizo Dome Tweeter
- Powerful Strontium Magnet for Dynamic Bass Response
- 250 Watts Maximum Music Power



### ▶ **SRR1027**

#### **4" COAXIAL SPEAKER**

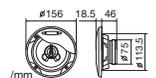
- 4" Metallized Mica-Injected Polypropylene Woofer Cone
- 1" Metallized PEI Balanced-Drive Tweeter With Neodymium Magnet
- Powerful Strontium Magnet for Dynamic Bass Response
- 120 Watts of Max Music Power



### ▶ **SRR1325**

#### **5 1/4" COAXIAL SPEAKER**

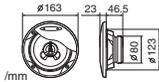
- 5 1/4" Metallized Mica-Injected Polypropylene Woofer Cone
- 1" Metallized PEI Balanced-Drive Tweeter With Neodymium Magnet
- Powerful Strontium Magnet for Dynamic Bass Response
- 140 Watts of Max Music Power





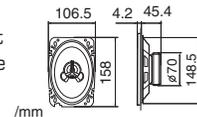
▶ **SRR1615**  
6 1/2" COAXIAL SPEAKER

- 6 1/2" Mica-Injected Polypropylene Woofer Cone
- 1" Metallized PEI Balanced-Drive Tweeter With Neodymium Magnet
- Powerful Strontium Magnet for Dynamic Bass Response
- 140 Watts of Max Music Power
- GM & CHRYSLER Adaptor Included



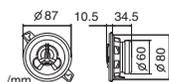
▶ **SRC4615**  
4" X 6" COAXIAL OEM SPEAKER

- Designed for Direct OEM Replacement
- 4" x 6" Mica-Injected Polypropylene Woofer Cone
- 1" Metallized PEI Balanced-Drive Tweeter With Neodymium Magnet
- Powerful Strontium Magnet for Dynamic Bass Response
- 100 Watts of Max Music Power



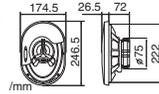
▶ **SRC925**  
3 1/2" COAXIAL OEM SPEAKER

- Designed for Direct OEM Replacement
- 3 1/2" Metallized Mica-Injected Polypropylene Woofer Cone
- 1" Metallized PEI Balanced-Drive Tweeter With Neodymium Magnet
- Powerful Strontium Magnet for Dynamic Bass Response
- 60 Watts of Max Music Power



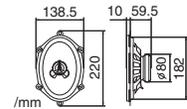
▶ **SRR6915**  
6" X 9" COAXIAL SPEAKER

- 6" x 9" Mica-Injected Polypropylene Woofer Cone
- 2 5/8" Metallized PEI Cone Tweeter
- 180 Watts of Max Music Power



▶ **SRC5715**  
5" X 7" COAXIAL OEM SPEAKER

- Designed for Direct OEM Replacement
- 5" x 7" Mica-Injected Polypropylene Woofer Cone
- 1" Metallized PEI Balanced-Drive Tweeter With Neodymium Magnet
- Powerful Strontium Magnet for Dynamic Bass Response
- 140 Watts of Maximum Music Power
- 6" x 8" FORD & MAZDA Adaptor Included



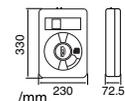
▶ **SRH205**  
3/4" TWEETER

- 3/4" Metallized PEI Balanced-Drive Tweeter
- Powerful Neodymium Magnet
- 2-Way Mounting Tweeter (Capable of Flush and Surface Mounting)
- In-Line -6dB/oct. Crossover Network
- 150 Watts of Max Music Power



▶ **SRV303**  
7" 120W POWERED SUBWOOFER

- Built-In 120-Watt High Power Amplifier
- 7" Counter Drive Subwoofer
- Selectable Crossover at 50/75/100/120Hz
- Detachable Control Panel With 16" Extension Cable Included
- Adjustable Input Gain
- Selectable Phase
- RCA Line Level Input
- Speaker Level Input
- Flexible Mounting Capability



**Sound Adjusting while Driving**

The cockpit controller lets you easily adjust the sound characteristics from the driver's seat.



### Multimedia/Source Units/Marine Features

		MULTIMEDIA	SOURCE UNITS				
		VRX755VD	DRZ9255	DXZ955MC	DXZ855MP	DXZ945MP	DXZ755MC
		DVD Multimedia Station with Touch-Panel Control	CD Receiver / CeNET Control	CD/MP3/WMA Receiver / CeNET & Touch-Panel Control & Digital Recorder	CD/MP3/WMA Receiver / CeNET & Touch-Panel Control	CD/MP3/WMA Receiver / CeNET & Touch-Panel Control	CD/MP3/WMA Receiver / CeNET Control & Digital Recorder
Multi-media	Fully Motorized 7-inch Wide Screen Color LCD	●					
	Pixel Display	336,960		38,400	38,400	20,480	7,680
	Screen Resolution	1440 x 234		400 x 96	400 x 96	320 x 64	160 x 48
	Touch-Panel Control With Soil-Resistant Finish	●		●	●		
	Excellent Off-axis Viewing	●					
Source	2 ZONE Entertainment	●				●	
	Music Catcher Digital Recorder			●			●
	Single Play DVD Mechanism Plays: DVD Video, CD Audio, VCD	●					
	Plays MP3- and WMA-Encoded CDs			●	●	●	●
	Plays MP3-Encoded CDs	●					
	Plays CD-R/RW	●	●	●	●	●	●
Sound	Full Logic Cassette With Auto Reverse						
	Auto Reverse						
	AC Processor IV			●			
	Anti-Distortion Filter				●	●	●
	Dolby Pro Logic II			●		●	●
	Built-In DSP for Time Alignment, Seat Position, Virtual Space Enhancer		Digital Time Alignment	●		●	
	3-Band Parametric EQ	●	5-Band	●		●	
	2-Band Parametric EQ				●		●
	Z-Enhancer EQ						
	3-Band Graphic EQ						
Audio	Built-in Adjustable High-Pass Crossovers for Front/Rear/Centre Channels: Through/50Hz/80Hz/120Hz		●	●		●	
	Built-In Adjustable Low-Pass Crossover With Subwoofer Volume Control: 50Hz/80Hz/120Hz		●	●	●	●	●
	Magna Bass EX	●		●	●	●	●
	24-Bit D/A Converter	●	Burr-Brown	●	●	●	
	High Power	53W x 4	—	53W x 4	53W x 4	53W x 4	53W x 4
	2 Zone Control	●				●	
	Shock-Proof Memory (45 Sec.)			●			●
	4-Volt/6-Channel Gold-Plated RCA Line Level Output		Max 8V / 8ch	●	●	●	
	4-Volt/6-Channel RCA Line Level Output						
	6-Channel RCA Line Level Output	●					●
Appearance	4-Channel RCA Line Level Output						
	2-Channel RCA Line Level Output						
	Built-In Amplifier Bypass Circuit (AMP Canceller)	●		●	●	●	●
	Stainless Steel Faceplate			●	●		
	Aluminium Faceplate					●	●
	728 Variable Color LCD and Function Buttons (12 Presets and 3 Users)						●
	Optimedia Display (Touch-Panel Control)	●		●	●	●	
	Full-Color Full Dot LCD			●	●		
	Auto Dimmer			●	●	●	
	Retractable Rotary Volume Control						●
Others	Rotary Volume Control		●	●	●	●	
	Screen Saver With User-Programmable Message Information			●	●	●	●
	Adjustable Display Contrast			●	●	●	●
	LCD with Spectrum Analyzer			●	●		●
	Motorized Detachable Control Panel			●	●	●	●
	Flip-Down Detachable Control Panel	●					
Others	CD Text, CD Tinting, Station Tinting	●	CD Text only	●	●	●	●
	IR Remote Control	●	●	●	●	●	●
	Radio Presets	18FM / 6AM	18FM / 6AM	18FM / 6AM	18FM / 6AM	18FM / 6AM	18FM / 6AM
	Detachable Control Panel with Blinking LED for Anti-Theft			●	●	●	●
	Detachable Control Panel						
	Partially Detachable Control Panel	●					
Extention	CeNET Control						
	DVD Changer	●	●	●	●	●	●
	TV Tuner	●	●	●	●	●	●
	Dolby Digital/dts 5.1ch Processor	●				●	
	Sirius Satellite Radio Receiver	●		●	●	●	●
	6-Disc CD Changer	●	●	●	●	●	●
	C-BUS Control of C-BUS CD Changer						
	Fibre Optical Output for Use With Dolby Digital/dts 5.1-Channel Processor	●					
	Video Input	1+TV+DVD					
	A/V Input	1					
Other Features	Video Output	1					
	Adjustable AUX Input		2	1	1	1	1
Other Features	AUX input						
	Others	●Full-Loading ●No Hide-away		●96kHz Sampling ●Silver-Coated 6N RCA Cable ●Copper-Plated Chassis			



## MP3/WMA Feature

MP3/WMA Feature		DXZ955/755MC	DXZ855/655/555MP	DB455MC	DB355MP	
Media	CD-R	●	●	●	●	
	CD-R/W	●	●	●	●	
CD R/RW Writing (1)	Disc at Once	●	●	●	●	
	Track at Once	●	●	●	●	
	Session at Once	●	●	●	●	
	Multi Session	Mixmode CD	●	●	●	●
		CD Extra	●	●	●	●
Yellow Book	Mode1	●	●	●	●	
	Mode 2 Form 1	●	●	●	●	
	Mode 2 Form 2	●	●	●	●	
File System	ISO9660	Level1	●	●	●	
		Level2	●	●	●	
	ISO9660 Extension	Joliet	●	●	●	●
		Play	●	●	●	●
	Others	Romeo	●	●	●	●
		File Name	128-Bytes	128-Bytes	128-Bytes	128-Bytes
		File Name	128-Bytes	128-Bytes	128-Bytes	128-Bytes
Fat	File Name					
FILE Descrip.	.MP3 / .MP3	●	●	●	●	
	.MP3 / .MP3	●	●	●	●	
	WMA	●	●	●	●	
	.RMP	●	●	●	●	
MPEG Format	MPEG 1	●	●	●	●	
	MPEG2	●	●	●	●	
	MPEG 2.5	●	●	●	●	
Sampling Frequency	MPEG 1	Fs=32/44.1/48kHz	Fs=32/44.1/48kHz	Fs=32/44.1/48kHz	Fs=32/44.1/48kHz	
	MPEG 2	Fs=16/22.05/24kHz	Fs=16/22.05/24kHz	Fs=16/22.05/24kHz	Fs=16/22.1/24kHz	
	MPEG 2.5	Fs=11.025/12kHz	Fs=11.025/12kHz	Fs=11.025/12kHz	Fs=16/22.1/24kHz	
	WMA	Fs=22.05 - 44.1kHz	Fs=22.05 - 44.1kHz	Fs=22.05 - 44.1kHz		
Bitrate	MPEG 1	32kbps - 320kbps	32kbps - 320kbps	32kbps - 320kbps	All Bitrate except 8kbps	
	MPEG 2	8kbps - 160kbps	8kbps - 160kbps	8kbps - 160kbps	All Bitrate except 8kbps	
	MPEG 2.5	8kbps - 160kbps	8kbps - 160kbps	8kbps - 160kbps	All Bitrate except 8kbps	
	WMA	48,64,80,96,128,160,192kbps	48,64,80,96,128,160,192kbps	48,64,80,96,128,160,192kbps		
Others	Directory Depth	Max 8	Max 8	Max 8	Max 8	
	File Name Number	128-Bite	128-Bite	128-Bite	28	
	Total File Number	512	512	512	254	
	Total Folder Number	255	255	255	128	
	ID3 Tag	ver.1.x	● (#2)	● (#2)	● (#2)	●
		ver.2.x	● (#3)	● (#3)	● (#3)	●
		Title	●	●	●	●
		Artist	●	●	●	●
		Album	●	●	●	●
		Year				
		Genre				
		Comment				
	WMA-Tag	Jacket(JPEG)				
		Title	●	●	●	
		Artist	● (#4)	● (#4)	● (#4)	
		Copyright				
		Description				
	RMP	Rating				
		Album #	●	●	●	
		Title	●	●	●	
Artist		●	●	●		
Album		●	●	●		
VBR	Year					
	Genre					
	Comment	(#5)	(#5)	(#5)		
Play List	.m3u	●	●	●		
	.asx	●		●		
Lyrics List				●		

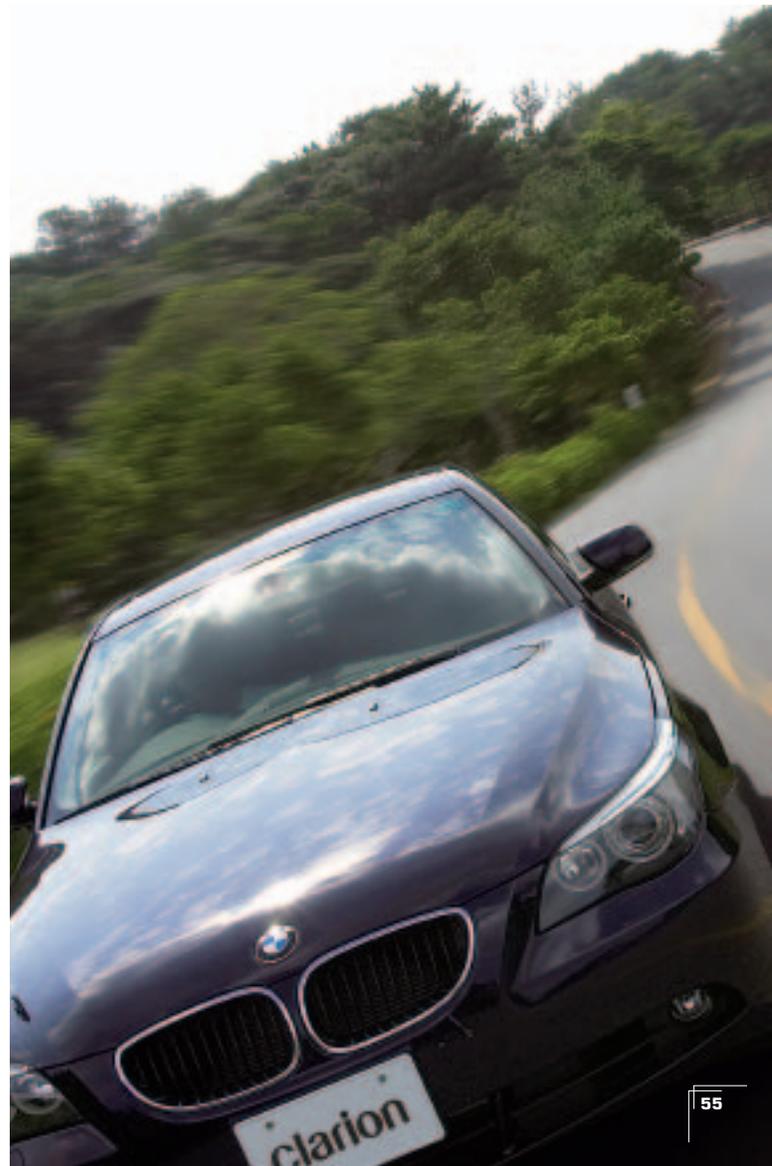
**N O E** 1. With S1-WMA, only alphanumeric characters and some symbols are accepted. Up to five hierarchies are supported. The number that can be recognized by P-List is five (with new time-stamp). Maximum number of files for 1P-List is 255.  
 2. Supports 30 characters.  
 3. For one character, Ver. 1.1 is used. More than one character is supported by rounding off. With Ver. 2, 60 bytes worth of characters are supported. Up to 30 characters when recorded in Unicode.  
 4. Supports WMA-TAG recorded with Winamp2.  
 5. RMP SI fields means not supported.

## Amplifiers

	APA4300HX	APA4320	APA2160	APA2001	APA450	APA250	APX480M	APX280M
<b>AMPLIFIER BASIC INFORMATION</b>								
Number of Channels	4	4	2	1	4	2	4	2
Maximum Power Output (Watts)	600	640	320	400	400	200	640	320
Continuous Power Output (Watts)	75 x 4	80 x 4	80 x 2	200 x 1	50 x 4	50 x 2	80 x 4	80 x 2
MOSFET Power Supply	●	●	●	●	●	●	●	●
Protection Circuits	●	●	●	●	●	●	●	●
HP-LP Electronic Crossover	●	●	●	●	●	●	●	●
Variable Crossover Frequency	55Hz-200Hz	55Hz-500Hz	55Hz-500Hz	50Hz-250Hz	55Hz-5.5kHz	55Hz-5.5kHz	55Hz-500Hz	55Hz-500Hz
10X Frequency Multiplier	●	●	●	●	●	●	●	●
Mixed Mode Operation	●	●	●	●	●	●	●	●
Bridgable (Number of Channels)	4/3/2	4/3/2	2/1		4/3/2	2/1	4/3/2	2/1
2-Ohm Load Capability (in Stereo)	●	●	●	●	●	●	●	●
Ground Loop Isolated Input Circuit	●	●	●	●	●	●	●	●
Turn On/Off Muting Circuit	●	●	●	●	●	●	●	●
Gold-Plated Connectors	●	●	●	●	●	●	●	●
Bass Extender 0~18dB	●	●	●	●	●	●	●	●
Speaker Level Inputs	●	●	●	●	●	●	●	●
<b>MAXIMUM POWER OUTPUT</b>								
Total Power (Watts)	600	640	320	400	400	200	640	320
Per Channel (Watts)	150 x 4	160 x 4	160 x 2	400 x 1	100 x 4	100 x 2	160 x 4	160 x 2
<b>CONTINUOUS POWER OUTPUT PER/CH.</b>								
4 Ohms, 20Hz-20kHz (Watts)	75 x 4	80 x 4	80 x 2	200 x 1	50 x 4	50 x 2	80 x 4	80 x 2
THD @ Rated Output, (%)	0.0012	0.08	0.05	0.10	0.05	0.08	0.08	0.05
2 Ohms, 20Hz-20kHz (@.5%THD)		115 x 4	125 x 2	400 x 1	90 x 4	110 x 2	115 x 4	125 x 2
Bridged, 1kHz (@.5%THD)		230 x 4	250 x 1		190 x 2	230 x 1	230 x 4	250 x 1
<b>LOAD CAPACITY</b>								
Stereo, Ohms	2	2	2	2	2	2	2	2

## Processors and Equalizers

	EQS744	MCD360	DV/H940
<b>GENERAL INFORMATION</b>			
Graphic EQ Bands	7		
3-Band Parametric EQ			●
4-Band Parametric EQ			
Adjustable Center Frequencies			●
Adjustable Q Factor			●
DSP Presets (Factory/User)			●
EQ Presets (Factory/User)			●
7 Adj. Sound Field Parameters			●
5 Seating Positions			●
3-Band F/R Ind. Digital Parametric EQ			●
High-Pass Crossover Slope (dB)	12		12
Low Pass Crossover Slope (dB)			12
F/R Parametric Presets			●
Digital Fiber Optic Inputs			2
Digital Fiber Optic Outputs			
Pink Noise Generator			●
Automatic Loudness Selector			
Virtual Space Enhancer (VSE) Circuit			
AUX Input	●		●
Gold RCA In/Out Connectors		●	
EQ Defeat Switch	●		
Adj. Line Level Subwoofer Output	●	●	
Subsonic Filter			
Selectable Subwoofer LP Frequency	●	●	
Selectable HP Frequency		●	
Subwoofer Stereo/Mono		●	M
Speaker Level Input			
Ground Loop Isolation Circuit	●	●	
Built-In Bass EQ		●	
Remote Subwoofer Level Control		●	
2/4/6 Channels of Output		●	●
Separate Front and Rear Crossover Points		●	●
Output Voltage	7V	5V	4V
CeNET Control			●
<b>EQ AND CROSSOVER INFORMATION</b>			
<b>EQUALIZER TONE ACTION</b>			
18dB @ 40Hz, 180Hz, 1kHz, 7kHz, 16kHz	●		
Variable 20-60Hz, 120-300Hz, 1k-2.4kHz, 7k-20kHz			●
12dB @ 30 or 50Hz			
12dB @ 100, 200, 400, 1kHz, 3kHz, 12kHz			
<b>HIGH PASS FREQUENCY</b>			
Selectable @ 50, 80, 120Hz (18dB/Oct.)		●	
Variable 32Hz-8kHz (Front), 32-400Hz (Rear)			●
<b>LOW PASS FREQUENCY</b>			
Selectable @ 50, 80, 120Hz	●		●
Selectable @ 60, 90Hz			
Variable @ 50-250Hz		●	
Variable @ 32-400Hz			
Selectable 70, 90, 120Hz			
<b>SUBWOOFER LINE OUTPUT</b>			
Adjustable Range (dB)	0-12		10



### Subwoofers/ ProAudio Speakers

	SW12X	SW10X	SRW1285	SRW1085	SRW1245	SRW1045	SRS1685	SRC4685	SRC3795	SRR6985	SRR1685
<b>SIZE OF SPEAKER</b>											
3/4 inch											
1 inch											
2.7 inch											
3 1/2 inch											
4 inch											
5 1/4 inch											
6 1/2 inch											
4 x 6 inch											
5 x 7/6 x 8 inch											
6 x 9 inch											
8 inch											
10 inch											
12 inch											
15 inch											
<b>TYPE OF SPEAKER</b>											
Tweeter											
Midrange											
Woofers											
Dual Voice Coil Subwoofer											
Single Voice Coil Subwoofer											
Dual Cone											
Coaxial											
3 Way											
<b>CONE MATERIAL</b>											
Pure Silk Dome (Tweeter)											
Polyether Imide (Midrange)											
Polypropylene											
Glass Fiber											
CONTINUOUS POWER (W)	300	300	350	300	350	300	45	35	35	60	40
MAX MUSIC POWER (W)	600	600	750	600	750	600	200	140	150	280	180
<b>MOUNT DEPTH (in)</b>											
Width (in)	6.6	5.9	5 7/8	5	5 1/8	5	2 3/16	1 9/16	2	2 15/16	1 7/8
<b>CUT-OUT SIZE</b>											
Width (in)	11.5	9.4	11	9 1/16	11	9 1/16	5 1/4	4 1/8	5	5 15/16	5 1/4
Height (in)								6 1/8	7 3/8	8 3/4	

### Multimedia Center

	VRX755VD
<b>MONITOR SECTION</b>	
Screen Size (W x H), mm	154.0 x 87.0 (7-inch)
Display Type	Transparent-type TN liquid crystal display
Drive Principle	TFT (Thin Transistor) active matrix display
Number of Pixels	336,960
VRC Video Input	1.0 0.2 Vp-p (input impedance 75 )
VRC Audio Input	130 60 mVrms (input impedance 10 k or more)
<b>TUNER SECTION</b>	
Frequency Bands	
FM: (MHz) 0.2 MHz steps	87.9 to 107.9
AM: (kHz) 10 kHz steps	530 to 1,710
FM Usable Sensitivity (dBf)	9
FM 50 dB Quieting Sensitivity (dBf)	15
FM Alternate Channel Selectivity (dBf)	70
FM Stereo Separation @1 kHz (dB)	35
FM Stereo Freq. Resp. @ 3 dB (Hz)	30 to 15,000
<b>DVD SECTION</b>	
Useable Discs	DVD video disc
Frequency Response (Hz)	20 to 22,000 (48 kHz) (+1 dB/-1 dB)
Distortion	0.01
<b>CD SECTION</b>	
Wow/Flutter (WRMS)	Below measurable limits
S/N Ratio (dB) 1 kHz	
Frequency Response (Hz)	20 to 20,000 (+1 dB/-1 dB)
Dynamic Range (dB) 1 kHz	
Harmonic Distortion (%)	0.01
<b>AUDIO SECTION</b>	
Maximum Power Output	53W x 4
<b>GENERAL</b>	
Dimensions (W x H x D), mm	178 x 50 x 165
Hide-away unit (W x H x D), mm	
Power Consumption	4.0 A (at 1 W)
Power Requirement	14.4 V DC (10.8 ~ 15.6 V)
Speaker Impedance	4 (4 to 8 allowable)

### Phase 1/ Marine Speakers

	SRS1625	SRR1635	SRR6935	SRR1627	SRR1325	SRR1027	SRR1615	SRR6915	SRC5715	SRC4615	SRC925	SRH205	SRV303	CMCX7.1S/ CMCX7.1	CMCS7.1	CMDC7.1	CM1635	CM1625	CM1605	CM5W10.1S/ CM5W10.1
<b>SIZE OF SPEAKER</b>																				
3/4 inch																				
1 inch																				
3 1/2 inch																				
4 inch																				
5 1/4 inch																				
6 1/2 inch																				
4 x 6 inch																				
5 x 7/6 x 8 inch																				
6 x 9 inch																				
7 inch																				
8 inch																				
10 inch																				
12 inch																				
15 inch																				
<b>TYPE OF SPEAKER</b>																				
Tweeter																				
Midrange																				
Woofers																				
Subwoofer																				
Dual Cone																				
Coaxial																				
3-Way																				
Marine																				
<b>CONE MATERIAL</b>																				
Metalized PEI Balanced-Drive (Tweeter)																				
Dome Tweeter																				
Titanium (Tweeter)																				
Metalized PEI Balanced-Drive (Midrange)																				
Polypropylene Cone Woofer																				
Metalized MIPP Cone Woofer																				
MIPP Cone Woofer																				
CONTINUOUS POWER (W)	40	40	50	35	30	30	30	35	35	25	20	40	50							
MAX MUSIC POWER (W)	180	200	250	180	140	120	180	180	140	100	60	150	120	160	130	120	100	100	100	350
<b>MOUNT DEPTH (in)</b>																				
Width (in)	2 1/4	2 3/16	2 7/8	1 7/8	1 3/16	1 3/4	1 7/8	2 3/4	2 3/8	1 7/8	1 3/8									
<b>CUT-OUT SIZE</b>																				
Width (in)	5	4 7/8	5 5/16	4 7/8	4 1/2	4	4 7/8	5 15/16	4 15/16	3 15/16	3 1/8	1 5/8								
Height (in)				8 3/4				8 3/4	7 3/16	5 7/8										

### DVD Player

	VC2625	V5755
S/N Ratio	90dB	85dB
Frequency Response	20Hz-20kHz	20Hz-20kHz
Dynamic Range		
Harmonic Distortion	0.02%	0
Separation	80dB	>70 dB
Video Output Level	1.0V p-p	1.0V p-p
Line Level Output	1.8V	1V

### CD Changers

	DC2625	DC625
Wow/Flutter (WRMS)	Below measurable limit	Below measurable limit
S/N Ratio (dB)	105	105
Dynamic Range (dB)	95	95
Frequency Response (Hz)	5 to 20,000	5 to 20,000
Harmonic Distortion (%)	0.01	0.01
Dimensions (W x H x D)	9" x 2 1/2" x 6 5/8"	9" x 2 1/2" x 6 5/8"

### Monitors

	OHM1102	OHM174	OHM153	OHM102	VMA17194	VMA5994
<b>SPECIFICATIONS</b>						
Power Requirement	12V DC					
Current Consumption	1.5A	1.5A	1.0A	1.9A	0.8A	0.8A
Brightness Level	350	350	350	350	400	360
Viewing Angle	L/R 60/60 DEG U/D 40/55 DEG	L/R 60/60 DEG U/D 40/50 DEG	L/R 60/60 DEG U/D 40/55 DEG	L/R 60/60 DEG U/D 40/55 DEG	L/R 60/60 DEG U/D 30/40 DEG	L/R 50/50 DEG U/D 15/35 DEG
Pixels	336,960	336,960	384,000	384,000	336,960	280,800
Resolution	1440x234	1440x234	800x480	800x480	1440x234	640x234
<b>GENERAL SPECIFICATIONS</b>						
Display Type	Color TFT, Active Matrix					
Screen Size	10.2 inches	7 inches	15.3 inches	10.2 inches	7 inches	5.8 inches
Weight	3.2 lbs	2.2 lbs	2.5 lbs	2.6 lbs	1.5 lbs	1.5 lbs
Dimensions (W x H x D)	9.75" x 9.25" x 2"	8.86" x 9.65" x 2.24"	15" x 2" x 13 1/8"	10" x 2" x 9"	7.21" x 5.04" x 1.41"	6.33" x 4.53" x 1.41"
Video System	NTSC/PAL	NTSC	NTSC/PAL	NTSC/PAL	NTSC/PAL	NTSC/PAL

### 5.1-Ch. Processor

	DVH940
S/N Ratio	95dB
Distortion	0.01%
Separation	80dB
Input Sensitivity	0.6V, 1.2V, 2V
Subwoofer Cutoff Frequency	50Hz, 80Hz, 120Hz
Subwoofer Level Control	SP-GAIN +/- 10Db
Output Voltage	4V
Input Impedance	47K ohm
Output Impedance	300 ohm
Parametric EQ Bands	Bands x 3 (Front/Center/Rear)
Q	1-20 (5 points)
EQ Center-Frequency Range	20, 25, 31.5, 40, 50, 63, 80, 100, 125, 160, 200, 250, 315, 400, 500, 630, 800, 1k, 1.25k, 1.6k, 2k, 2.5k, 3.15k, 4k, 5k, 6.3k, 8k, 10k, 12.5k, 16k, 20k
Parametric EQ Boost/Cut	12dB +/-
Time Correction Range	0-5ms (Center) 0-5ms (Rear)
Frequency Response	20Hz-44kHz

### Processor and Equalizer

	MCD360	EQ5744
Frequency Response	10-50,000 Hz	10-50,000 Hz
Signal to Noise Ratio	100dB	105dB
<b>EQ Tone Action</b>		
High-Pass Frequencies	32-8,000 Hz 32-400 Hz Rear	
<b>Low-Pass Frequencies</b>		
Subwoofer Line Output	0-18dB	0-12dB
Center Equalizing Frequencies	25-100Hz	40Hz, 180Hz, 1kHz, 7kHz, 16kHz
Auxiliary Gain Sweep		0-4V
Output Voltage		
Dimensions (WxHxD)	5 1/2" x 1 3/4" x 5 1/2"	7" x 1 1/8" x 4 1/6"

### Amplifiers

	APA4300HX	APA4320	APA2160	APA2001	APA450	APA250	APX480M	APY280M
Continuous Power Output (20 ~ 20,000 Hz, 4 )	75 W x 4 (4-ch. operation)	80 W x 4 (4-ch. operation)	80 W x 2 (2-ch. operation)	200 W x 1 (1-ch. operation)	50 W x 4 (4-ch. operation)	50 W x 2 (2-ch. operation)	80 W x 4 (4-ch. operation)	80 W x 2 (2-ch. operation)
Max. Power Output	150 W x 4	160 W x 4	160 W x 2	400 W x 1	100 W x 4	100 W x 2	160 W x 4	160 W x 2
Frequency Response (Hz)	5 to 100,000 (-1 dB)	10 to 50,000 (+/-1 dB)	10 to 50,000 (+/-1 dB)	10 to 50,000 (+/-1 dB)	10 to 50,000 (+/-1 dB)	10 to 50,000 (+/-1 dB)	10 to 50,000 (+/-1 dB)	10 to 50,000 (+/-1 dB)
S/N Ratio at Min. Volume	112 dB	100 dB	100 dB	>100 dB	>100 dB	>100 dB	>100 dB	>100 dB
Dimensions (W x H x D), mm	9" x 2 1/8" x 8 1/4"	16" x 2 1/4" x 6 1/2"	11 1/4" x 2 1/2" x 6 1/2"	11" x 2 1/2" x 11 1/2"	11 3/4" x 2 1/2" x 10 7/8"	9 3/8" x 2 1/4" x 10 7/8"	8 1/4" x 2 1/8" x 13"	8 1/4" x 2 1/8" x 9"

### Radio CD Combinations

	DRZ9255	DXZ955MC	DXZ855MP	DXZ945MP	DXZ755MC	DB455MC	DXZ655MP
<b>TUNER SECTION</b>							
Frequency Bands							
FM: (MHz) 0.2 MHz steps	87.9 to 107.9						
AM: (kHz) 10 kHz steps	530 to 1,710						
FM Usable Sensitivity (dBf)	9	9	9	9	9	9	9
FM 50 dB Quietening Sensitivity (dBf)	15	15	15	15	15	15	15
FM Alternate Channel Selectivity (dBf)	70	70	70	70	70	70	70
FM Stereo Separation @1 kHz (dB)	35	32	32	35	35	35	35
FM Stereo Freq. Resp. @ 3 dB (Hz)	30 to 15,000						
<b>CD SECTION</b>							
Wow/Flutter (WRMS)	Below measurable limit	Below measurable limit	Below measurable limit	Below measurable limit	Below measurable limits	Below measurable limits	Below measurable limits
S/N Ratio (dB)	112	100	100	100	100	100	100
Frequency Response (Hz)	5 to 20,000	10 to 20,000	5 to 20,000				
Dynamic Range (dB)	100	96	95	96	95	93	95
Harmonic Distortion (%)	0.003	0.006	0.01	0.01	0.01	0.03	0.01
<b>AUDIO SECTION</b>							
Maximum Power Output		53W x 4	53W x 4	53W x 4	53W x 4	52W x 4	53W x 4
<b>GENERAL</b>							
Dimensions (W x H x D), mm	178 x 50 x 178	178 x 50 x 160	178 x 50 x 160	178 x 50 x 155			
DC/DC Converter (W x H x D)mm	175 x 43 x 99						
Remote Control (W x H x D), mm	52 x 125 x 12	43.4 X 112.7 X 12.5	43.4 X 112.7 X 12.5	44 x 110 x 27	43.4 X 112.7 X 12.5	43.4 X 112.7 X 12.5	43.4 X 112.7 X 12.5
Power Consumption: less than	1.4A	15A	15A	15A	15A	15A	15A
Speaker Impedance	4 (4 to 8 allowable)						

### Radio CD Combinations

	DXZ555MP	DB355MP	DB255	DB155	CMD4	M455	M255
<b>TUNER SECTION</b>							
Frequency Bands							
FM: (MHz) 0.2 MHz steps	87.9 to 107.9	87.9 to 107.9	87.9 to 107.9				
AM: (kHz) 10 kHz steps	530 to 1,710	530 to 1,710	530 to 1,710				
FM Usable Sensitivity (dBf)	9	11	11	11	9	9	9
FM 50 dB Quietening Sensitivity (dBf)	75	17	17	17	15	15	15
FM Alternate Channel Selectivity (dBf)	70	75	75	75	70	70	70
FM Stereo Separation @1 kHz (dB)	35	35	35	35	35	35	35
FM Stereo Freq. Resp. @ 3 dB (Hz)	30 to 15,000	30 to 15,000	30 to 15,000				
<b>CD SECTION</b>							
Wow/Flutter (WRMS)	Below measurable limits	Below measurable limits	Below measurable limits	Below measurable limits	Below measurable limit	Below measurable limit	Below measurable limit
S/N Ratio (dB)	100	100	100	100	100	100	100
Frequency Response (Hz)	5 to 20,000	10 to 20,000	10 to 20,000	10 to 20,000	10 to 20,000	10 to 20,000	10 to 20,000
Dynamic Range (dB)	95	95	95	93	95	95	93
Harmonic Distortion (%)	0.01	0.01	0.01	0.03	0.01	0.01	0.03
<b>AUDIO SECTION</b>							
Maximum Power Output	53W x 4	51W x 4	51W x 4	51W x 4	53W x 4	52W x 4	50W x 4
<b>GENERAL</b>							
Dimensions (W x H x D), mm	178 x 50 x 155	178 x 50 x 152	178 x 50 x 152	178 x 50 x 155	Body:180.4 x 51.2 x 186 Escutcheon:199.4 x 91.85 x 47	178 x 50 x 155	178 x 50 x 155
Remote Control (W x H x D), mm	43.4 X 112.7 X 12.5						
Power Consumption: less than	15A	15A	15A	15A	15A	15A	15A
Speaker Impedance	4 (4 to 8 allowable)	4 (4 to 8 allowable)	4 (4 to 8 allowable)				

### Radio Cassette Combinations

	X A 3 1 1
<b>TUNER SECTION</b>	
Frequency Bands	
FM: (MHz) 0.2 MHz steps	87.9 to 107.9
AM: (kHz) 10 kHz steps	530 to 1,710
<b>TAPE SECTION</b>	
Wow/Flutter (%)	0.10
S/N Ratio	
Standard Tape, without NR (dB)	53
Metal Tape, without NR (dB)	
Frequency Response	
Standard Tape (Hz)	30 to 15,000
Metal Tape (Hz)	
<b>AUDIO SECTION</b>	
Maximum Power Output	40W x 4
<b>GENERAL</b>	
Dimensions (W x H x D), mm	178 x 50 x 155
Remote Control (W x H x D), mm	
Power Consumption: less than	10A
Speaker Impedance	4 (4 to 8 allowable)

### Radio CD Cassette Combination

	A D B 3 4 0 M P
<b>TUNER SECTION</b>	
Frequency Bands	
FM: (MHz) 0.2 MHz steps	87.9 to 107.9
AM: (kHz) 10 kHz steps	530 to 1,710
<b>TAPE SECTION</b>	
Wow/Flutter (%)	0.06
S/N Ratio	
Metal Tape, without NR (dB)	67
Frequency Response	
Metal Tape (Hz)	30 to 20,000
<b>CD SECTION</b>	
Wow/Flutter (WRMS)	Below measurable limit
S/N Ratio (dB)	100
Frequency Response (Hz)	10 to 20,000
Dynamic Range (dB)	95
<b>AUDIO SECTION</b>	
Maximum Power Output	50W x 4
<b>GENERAL</b>	
Dimensions (W x H x D), mm	178 x 100 x 155
Remote Control (W x H x D) ,mm	44 x 110 x 27
Power Consumption: less than	15 A
Speaker Impedance	4

# FEATURE ICONS

## Multimedia/Source Units



**DVD Video Playback**  
The unit is compatible with the DVD Video format so you can watch DVD software in your car.



**dts Control**  
Units with this logo are designed for connection and complete control of the external Clarion hide-away dts/Dolby Digital & Pro Logic II Decoders "DVH940" via CeNET.



**Dolby Pro Logic II**  
Dolby Pro Logic II enables superior surround sound and positioning compared to the former version of surround system. More sophisticated decoding process maximizes the effect of surround sound from the source encoded with Dolby surround. In addition to that, Dolby Pro Logic II is designed to get 5.1-channel sound effect from any 2-channel software, which means you can enjoy perfect surround sound even if the software is in conventional stereo recording. "Phantom mode" is also available in which quasi 5.1-channel sound field is reproduced from 4-speaker system without center speaker.



**MP3/WMA**  
With decoders for both MP3 and WMA (Windows Media Audio), you can play either type of ripped or downloaded audio file. Also supports ID3 Tag for display of metafile information. With digital compression, these formats enable up to 12 hours of music to be fit onto a single CD-R/RW while delivering CD-level quality.



**CD Text**  
When a CD Text compatible CD is played, the artist name and tracks recorded on the CD are shown on the LCD screen.



**iPod**  
iPod Interface lets you easily connect your iPod portable music player for seamless enjoyment of your musical collection.



**Sirius Satellite Radio**  
A subscriber-based digital satellite radio system offering 100 channels of CD digital quality programming from coast to coast, including 60 channels of commercial-free music, plus 40 channels of news, sports, and other categories. It offers reception quality that dramatically outperforms terrestrial radio broadcasts.

## Speakers



**Water-Resistant Cone**  
Water-resistant cones prevent sound-quality deterioration caused by moisture. Door mounting is possible without further protection.



**Aluminum-Coated Polypropylene Cone**  
Clarion's high-rigidity, lightweight polypropylene cones have an ideal internal loss for woofers. The high input allows you to enjoy powerful digital audio with exceptional music quality.



**Metalized MIPP Cone**  
Injection molded diaphragms use polypropylene compound with mica particles blended in. Metalized MIPP cone provides additional rigidity while maintaining lightness for superior dynamic response.



**Glass Fibre Cone**  
Featured on our high-end HX series and In-Phase coaxial series.

**Music Catcher System**  
Freely record, play and erase tunes using a built-in memory. It can store up to about 80 tunes (in LP mode) as high-quality music data files.

**CD-R/RW**  
Capability to play back CD-R/RW audio discs you have recorded at home.

**New Optimedia Display**  
Advanced human-machine interface that fuses high quality graphics and interactive touch-screen operation in an eye-catching design.

**Stainless Steel Faceplate**  
Faceplate is constructed of stainless steel material to add a clean, cool look to the head unit in a way that matches well with most car interiors.

**Aluminum Faceplate**  
Faceplate is constructed of aluminum material to add a clean, cool look to the head unit in a way that matches well with most car interiors.

**TOUCH PANEL**  
It only touches it in the fingertip, and it is the indication vessel which makes most machine control possible.

**Variable Color Display**  
This LCD display lets you mix RGB (Red/Green/Blue) levels to create the background color (DXZ755MC, DXZ655MP). The control buttons on the faceplate automatically change colors to match the display.

**Message Information**  
On select ProAudio Source Units, you can display your own custom-mixed messages up to 30-characters. Messages are displayed when the unit is turned on or off.

**Auto Dimmer**  
Automatically dims the displays brightness when the headlights are turned on so that the display is not a distraction during nighttime driving.

**Rotary Volume Control**  
Adjusting the volume is easily done since you do not need to take your eyes off the road when turning the knob, thus ensuring safety while driving. The rotary control also has a retractable feature found on some models with RRC symbol which allows you to retract the button when the system is not in use.

**Smart Control Key**  
One-finger easy, accessing the exact song you want to hear on a loaded CD has never been quicker or simpler.

**5.1-Channel Surround**  
The unit is compatible with Dolby Digital and dts to support 5.1-channel audio. Comprised of five channels (Left, Right, Center, Rear Left and Rear Right) plus a dedicated low-frequency channel for a subwoofer, this system reproduces the sound of movies and music with "being there" reality.

**AC-Processor IV**  
Advanced digital sound processing technology including Time Alignment Control to adjust the time delay among speakers, VSE (Virtual Space Enhancer) to digitally correct irregular reflection and polarization, Parametric EQ to adjust the equalization of each frequency band independently, and Anti-Distortion Filter to restore lost dynamics in MP3 and WMA files.

**Digital 3-way X-over**  
Digitally splits up the frequency range into three bands, feeding each to a separate driver - woofer, midrange and tweeter - for accurate sound with less distortion.

**Time Alignment Control**  
Lets you easily adjust the time delay among the speakers to best suit your interior simply by choosing the type of your car (sedan, mini-van, etc.).

**VSE (Virtual Space Enhancer)**  
Lets you digitally compensate for irregular reflection, polarization, and other acoustic problems that may accompany your car's interior.

**Anti-Distortion Filter**  
Eliminates phase distortion in high and low frequencies and emphasizes the natural frequency characteristics of the sound, for natural flat response and clear details.

**Z-Enhancer Plus**  
Powerful bass and a fresh, crystal-clear treble. Adjustment for 3 different sound settings can be made in easy steps.

**Z-Enhancer**  
Three types of sound quality patterns are pre-set for easy selection. Boost the bass only, the treble only, or both, with the level of boost adjustable by the user.

**Magna Bass EX**  
Boosts the bass range in the vicinity of 50 Hz by nearly 10 dB, so the bass comes through loud and clear even if you're listening at low volume.

**Low-Pass and High-Pass Filters**  
A filter that passes signals below a cut-off frequency (LPF) or above a cut-off frequency (HPF), used to optimize the signal for high or low frequency reproduction.

**24-bit D/A Converter**  
Clarion's D/A converter requantizes the 16-bit data from CDs into 24-bit data for the delicate representation of rich musical tones.

**Parametric EQ**  
Lets you adjust the equalization of each frequency band independently for the front, center, and rear speakers.

**Audio 2-Zone**  
Lets you divide your in-car entertainment into 2 discrete zones, so the people up front can be listening to the radio while those on the back seat watch a movie on DVD.

**2-Zone Entertainment**  
Function that allows people in the front and back seats to enjoy separate visual or audio entertainment sources.

**Subwoofer Control**  
All ProAudio source units have a dedicated subwoofer level control to give you more control over your system's bass performance. This even includes a low-pass crossover which, when selected (50Hz/80Hz/120Hz selectable), turns the rear channel RCA line level outputs into dedicated subwoofer outputs.

**AMP Canceller**  
Built-In Amplifier Bypass Circuit for clear sound.

**Shock Proof Memory**  
It is the function which a maximum 20-second data memory has sound that it is formed at the time of bad road running.

**Audio Output**  
All units with this logo have audio outputs for external amplifiers. Some units with 4V output logo have high 4V audio output for high-quality sound. In addition, some Clarion units have Non-fade output for Subwoofer, and also selectable

**Loop Back Circuit** for hide-away dts/Dolby Digital & Dolby Pro Logic II Decoders DVH940.

**AUX Input**  
Accepts input signal from external unit.

**CeNET**  
CeNET is a high-speed network for complete control of your car multi-media system. With CeNET, you can control components over a single network and easily add new functionality to your car multimedia system by simply connecting CeNET-compatible components.

**Digital Optical Output**  
Building of a 5.1ch sound system which draws a definite sound figure in the car inside and to give should be made possible.

**DVD Easy Control**  
DVD Easy Control, coupled with CeNET components, allows the following possibilities: • Scene / Title FF / FB • Play / Pause • Volume control: General / Centre / Sub-woofer • Audio muting • Balance and Fader control

**TV Tuner Control**  
Unit with this logo can be connected with hide-away TV Tuners such as TTX7501.

**CD Changer Control**  
A 6-disc CD changer can be controlled from the main unit.

**5.1-Channel Decoder Control**  
Allows direct control of all functions on DVH940 5.1 Digital Surround Processor.

**SIRIUS Control**  
Head unit is equipped with controls and interface for optional SIRIUS Satellite Radio tuner, for easy upgrade to this next-generation system.

**MOS-FET**  
MOS-FET transistors in the amplifier offer wide frequency response with minimal distortion, and dissipate less heat for high quality energy-efficient sound.

**High Performance Power IC**  
Vertical power transistors are used in the amplifiers to provide high-efficiency, low-distortion output. Great for digital sources with their wide dynamic range.

**High Power**  
With its powerful amplifier IC, Clarion has significantly raised the power limit in the realm of car audio. This improves dynamics and eliminates distortion across the entire frequency spectrum.

**Mica Polypropylene Mixed Injection Cone**  
These injection molded diaphragms use polypropylene with mica particles blended in, with a molecular structure that radiates from the inside out, to attain the lightness and rigidity necessary to create speakers with superior response even to the fast transients of digital sources.

**Rubber Surrounds**  
The rolled edge of the diaphragm provides superior response, while its butyl material is highly durable and moisture resistant. The result is a special rubber surround that cuts distortion and further improves linearity.

**PEI Balanced Drive**  
The novel design features an integrated PEI diaphragm and voice coil bobbin. This design reduces the mass, and given the optimum induction conditions in the magnetic gap, the result is a dramatic improvement in dynamic range.

**Dual 4-Ohm Voice Coil**  
Clarion's systems use dual voice coils to deliver perfect playback of large-amplitude bass. These coils also provide high sensitivity and excellent performance for digital audio and other large input sounds.

**Dual Neodymium Magnet**  
While extremely compact, the neodymium magnet also has very high magnetic energy (B<sub>Hmax</sub>). The powerful magnetic field and minimum magnetic distortion deliver effortless sound.

**Rear-Vented Pole Piece**  
To prevent pressure from building up inside the center cap and causing increased amplitude distortion, a vent is provided on the rear of the pole piece, resulting in completely smooth cone movement, which contributes to the open, airy sound of the speakers.

**SMC**  
Pole Piece department is cut, and a faithful accurate vibration is realized by creating a union magnetic world.

**Powerful Strontium Magnet**  
A high-conductivity magnet is used in Clarion's speaker systems to obtain an air-gap magnetic flux density significantly higher than that obtained from ferrite magnets. Combining this magnet with the heat-resistant voice coil results in speakers that are able to deliver powerful playback at large inputs with improved damping while maintaining the integrity of the digital source.

**Large Strontium Ferrite Magnet**  
Offers all the benefits of the strontium magnet, and boosts the sonic reproductive power by using a large sized Strontium Ferrite magnet in the driver.

**Variable Angle Tweeter in Coaxial Speakers**  
Unlike conventional 2-way speakers, these feature a tweeter that is adjustable for angle and can be aimed for precise high frequency imaging. When coaxial speakers are mounted in the most common door locations, the high frequencies are beamed at the driver and passenger's feet, reducing high frequency response and spatial imaging. By changing the angle so that the tweeter sends high frequencies to the listener's ears, high frequency response is increased, and spatial imaging is dramatically improved.

**Wide-Range 80kHz Silk Dome Tweeter / WideRange 120kHz Silk Dome Tweeter**  
Uses soft silk dome diaphragms and high-power magnets to achieve rich expressiveness. Offers up to 80kHz or 120kHz maximum reproduction for crystalline highs.

**Silk-Cloth Soft Dome Tweeter**  
Clarion's high-end tweeters use soft dome diaphragms laminated The suppleness of

silk, strengthened by the lamination layer, provides natural, finely detailed sound. These tweeters offer superb transient response, even at very low input levels, and can faithfully reproduce delicate pianissimo passages.

**Air Compression**  
The air pressure developed on the back side of the speaker is compressed within the cabinet and propelled forward through the rear duct.

**Counter Drive**  
With the driver mounted on the magnet side of the woofer cone, it enables a large caliber 20cm woofer to be fit inside a slim and compact body.

**Lead-Free Solder**  
Solder used in product manufacturing is lead-free to help protect the environment.

**Digital Ready**  
Featuring higher power handling, Clarion's Digital Ready speakers reproduce the wide dynamic range of Compact Discs and other digital media.

**Inline Network**  
Allows speaker output level adjustment in three steps (0dB/-6dB/-12dB).

## Notes

- Specifications and design are subject to change without notice.
- Photos are non-binding. The manufacturer and importer do not take responsibility for any printing errors.
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- Products in this catalog are primarily intended for installation in passenger cars. Use in trucks, tractors, off-road vehicles, motorcycles, construction machinery, boats (excluding products deemed marine ready), and other special-purpose vehicles is not recommended.
- There's no guarantee that all units in this catalog play CCCD (Copy Control CD).
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## WARRANTY

All Clarion products are covered by a Limited One-Year Parts and Labor Warranty. All Clarion ProAudio products except speakers are covered by a Limited Two-Year Parts and Labor Warranty when installed by an authorized Clarion Dealer.

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# clarion®

**WARNING: Driver is prohibited by law from viewing a video signal on any in-dash monitor while the vehicle is in motion.**