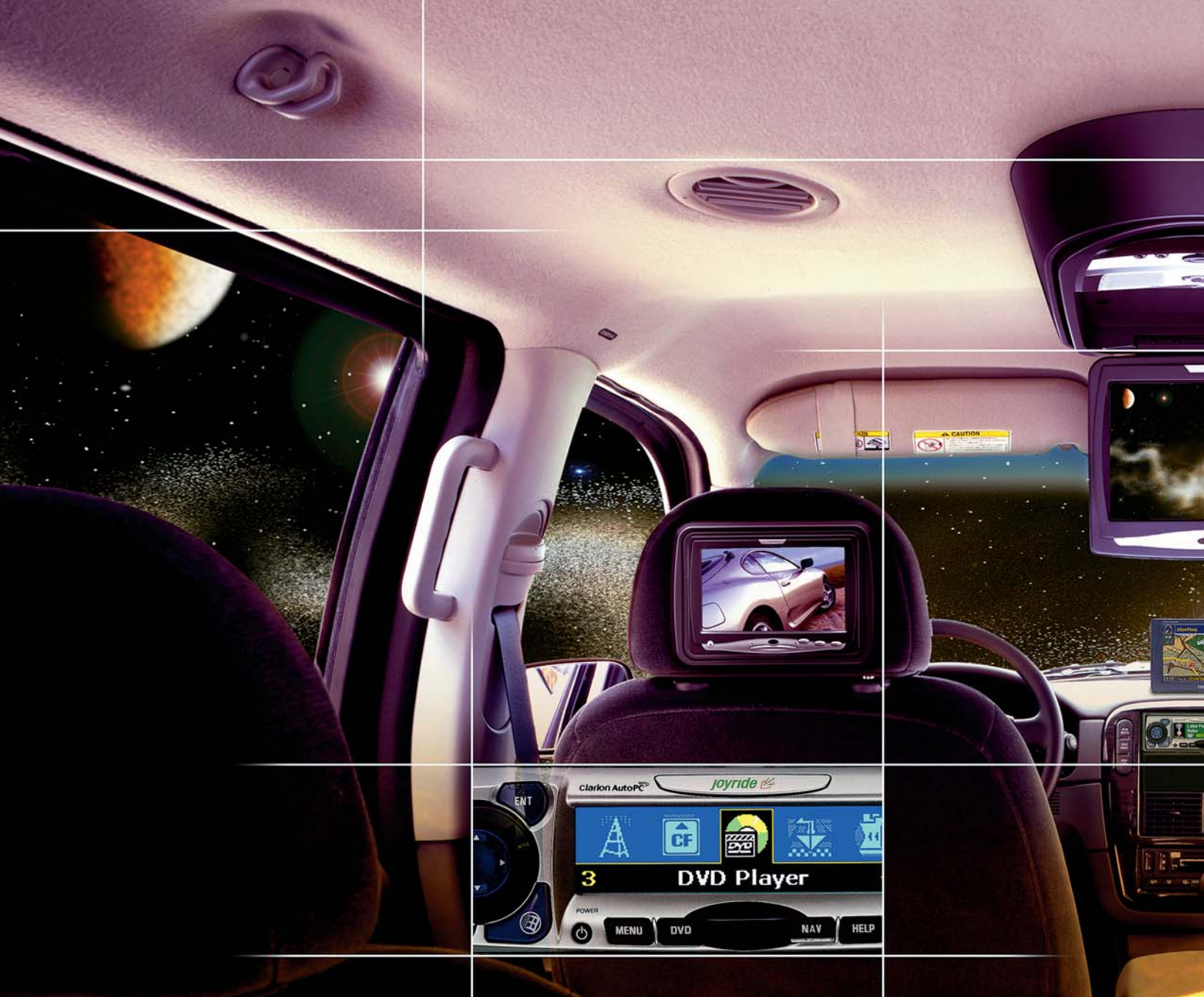


clarion®



2002 Product Catalog Car Audio, Multimedia, Marine and Security Retail Products



Clarion's ultimate mobile entertainment systems

With today's digital media offerings of CD Audio, CD-R/RW, MP3 and DVD Video, the category of "car audio" has expanded past the standard of an in-dash radio and tape deck or CD player. In-car entertainment has now become a true multimedia experience, combining both audio and video into a total entertainment package. With an extensive multimedia product line, Clarion brings you the ultimate in audio and video excitement.

Clarion has a complete offering of both audio and video components, starting with the top of the line Joyride system. Joyride has completely integrated an AM/FM tuner with a DVD player, CD player, MP3 player, built-in 5.1 multi-channel audio featuring Dolby Digital and DTS decoding, together with an optional moving map navigation system all in a single DIN-sized unit. All of Joyride's functions are controlled by voice commands or an infrared remote control.

With DVD technology becoming the dominant playback system for home theater, it was just a matter of time before DVD would become a necessary part of the mobile theater experience. Clarion has expanded its DVD offering with an in-dash DVD player featuring a fully motorized wide screen color display and touch screen control of all major system functions. A 6 disc DVD changer and a Dolby Digital/DTS/Dolby Pro Logic II audio decoder round out the ultimate audio/video product. A single play DVD player, and three more in-dash motorized wide screen monitors are available, offering even more options for a DVD based entertainment system.



Clarion's source units for 2002 have unique features including 24 bit DACs for excellent signal-to-noise ratios and improved sonic performance; a Dual Action motorized face mechanism; built-in Dolby Pro Logic II decoder to generate multi-channel audio playback from any 2 channel source; MP3 decoders in all DVD players as well as an in-dash AM/FM CD player; and the ability to play CD-R/RW discs. Displays have been redesigned with improved brightness and adjustable contrast, and some units use a new Electric Blue display. A three-band parametric EQ with Beat EQ is available on ProAudio source units, and Z-Enhancer+ is standard on most of the other source units. Clarion uses new power amplifier IC's in their source units for delivering powerful dynamic sound.

To complete the ultimate car entertainment system, Clarion has completely redesigned its speaker and amplifier offerings. The Phaze 1 product offers outstanding upgrade performance from the stock speaker system in your vehicle. Power System speakers and subwoofers offer excellent audio performance that is required in a 5.1 theater sound system, as well as unique designs that separate this product from the competition. Clarion's Power System amplifier line up has a completely redesigned heat sink and the raw power needed for the required dynamics of a multi-channel audio/video system.

Only Clarion can bring you such a wide range of Multimedia components



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Clarion
POWER BY



5.1-ch SURROUND SYSTEM

5.1-channel Dolby Digital/DTS Surround

With the arrival of DVD, 5.1-channel surround sound, which is already a must for home theater systems, is rapidly becoming the entertainment format of choice in motor vehicles. Dolby Digital and DTS provide three channels of front sound (Left, Right, Center), together with two rear surround sound audio channels (Left, Right) and a dedicated low-frequency channel for a subwoofer. This combination can reproduce the dynamic sound field of a movie theater in a relatively small space. So take the show on the road; let Clarion bring full 5.1-channel performance into your car.



Dolby Pro Logic II

Clarion is the first to bring this innovation to the arena of car audio. While Dolby Digital and DTS require 5.1-channel encoded software in order to produce 5.1-channel surround sound, Dolby Pro Logic II can create a 5.1-channel sound effect from ANY 2-channel software. So even if your favorite DVD movie is only in stereo, no problem. You can also enjoy stereo music CDs, MP3 audio and radio programs with 5.1-channel sound. What's more, Dolby Pro Logic II has a phantom mode that simulates the center speaker so you can reproduce a quasi 5.1-channel soundscape from the four standard speakers of a car audio system.

1-DIN in-dash TV with DVD Player

Comprehensive car multimedia in a compact size. Its 7-inch Wide Color TFT LCD is 30% brighter than conventional types, and features Vari-lumi (10-step) auto dimmer, touch panel control, and fully motorized mechanism. Enjoy your favorite media with the DVD/CD-R/CD/MP3 Player, and a 50W x 4 amp for powerful sound. Everything you need, in a 1-DIN sized in-dash unit.



1-DIN in-dash Tuner with CD Player

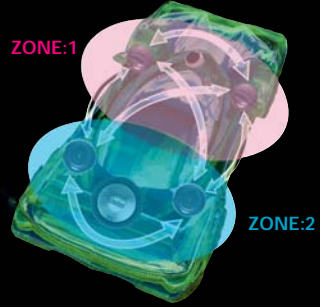
It includes a retracting 7-inch monitor, CD player, AM/FM radio, touch panel control, CD changer control, and more.

New 6-disc DVD Changer

Load up the entertainment for the long haul. Clarion's new DVD Changer accepts 6 discs, so you can keep your passengers smiling with up to 6 movies, or mix in some of your favorite CDs or MP3's for a change of pace.

2-Zone Entertainment

Not everybody likes to watch or listen to the same thing, so Clarion lets you divide your in-car entertainment into 2 discrete zones. For instance, Dad and Mom might be listening to the radio while the kids watch a movie on DVD in the back seat. Clarion gives you the ability and the systems to make it all a reality.



Comprehensive Rear Entertainment Lineup

Clarion's Overhead Monitors, installed in the ceiling, will allow rear seat passengers to enjoy visual entertainment without taking up precious space. The Headrest Monitors will let rear seat passengers enjoy visual entertainment in the most natural viewing position. Or, with a Monitor Stand, it will be possible to place the screen on an armrest or other part of the car, increasing viewing possibilities. Clarion also offers a "Source Commander" AV switcher and Wireless Headphones to get the entertainment precisely to the passenger who wants it.

Joyride is the most advanced in-car multimedia product available today.



joyride



Joyride is the most advanced in-car multimedia product available today. Contained in a single DIN-sized unit is an AM/FM Magi-Tune Tuner, a DVD Video player, a CD Audio Player, an MP3 decoder for either CD-R recorded MP3 or MP3 files loaded on a Compact Flash Card, built-in Dolby Digital and DTS audio decoders for 5.1 channel audio, true dual zone capability, CD Changer Control, an Address Book function, and an optional navigation package. All systems are controlled by an Intel Pentium MMX enabled processor.

While containing many functions, operating Joyride is simple. All main functions can be controlled by voice commands, and Joyride will respond with verbal acknowledgement. An Infrared Remote Control is included for full system control as well. Its full color display shows all major functions, as well as displaying navigation information by way of moving maps or turn-by-turn instructions when the optional GPS receiver with mapping software is connected. Also available is the optional Large Screen Navigation system, which displays the mapping information on a 6.4" color LCD screen mounted in the front of the vehicle. When not navigating, the screen shows all major functions of Joyride's current operation mode.

Joyride's dual zone capability allows rear seat passengers to watch a DVD movie on a rear seat or overhead mounted LCD display and listen on wireless headphones, while the front seat passengers listen to the radio, music from the CD changer, or MP3 files played on a Compact Flash Card, as well as navigating using the moving map display on the front display at the same time. Front seat passengers also enjoy full 4 channel (with subwoofer) audio playback. The Joyride Entertainment Package (part number JOYBP), consists of the Joyride main unit, the Infrared Remote control, the VMA6491 color LCD rear seat monitor and a 32MB Compact Flash card for data storage, all for an attractive system price.



Full featured Infrared Remote Control handles all major functions of Joyride: select functions, adjust audio, select map displays while navigating, and enter destinations. The Remote makes navigating through DVD menus a snap, and rear seat passengers can use the remote to control DVD playback independent of front seat operation of Joyride while in the dual zone mode.



The VMA6492 6.4" color LCD Monitor displays mapping information through its RGB video input, or all major functions and operation displays of Joyride.

JoyRoute Plus Navigation



This application comes with a 3D display that can adjust to several different views from overhead (2D) all the way to through the windshield view (full 3D) for use with the VMA6492 color LCD Monitor.

The Route Guidance allows you to safely navigate by giving you turn-by-turn instruction through voice commands or on-screen display.

Mapping accuracy is assured by a 12 channel GPS receiver along with a gyro and a speed sensor. JoyRoute Plus also allows you to get navigation instructions from a Point of Interest (POI) database. You can find the closest bank, gas station, ATM, dining, airport, or entertainment center.

And like JoyRoute, virtually every function can be accessed by voice command or Infrared remote Control.

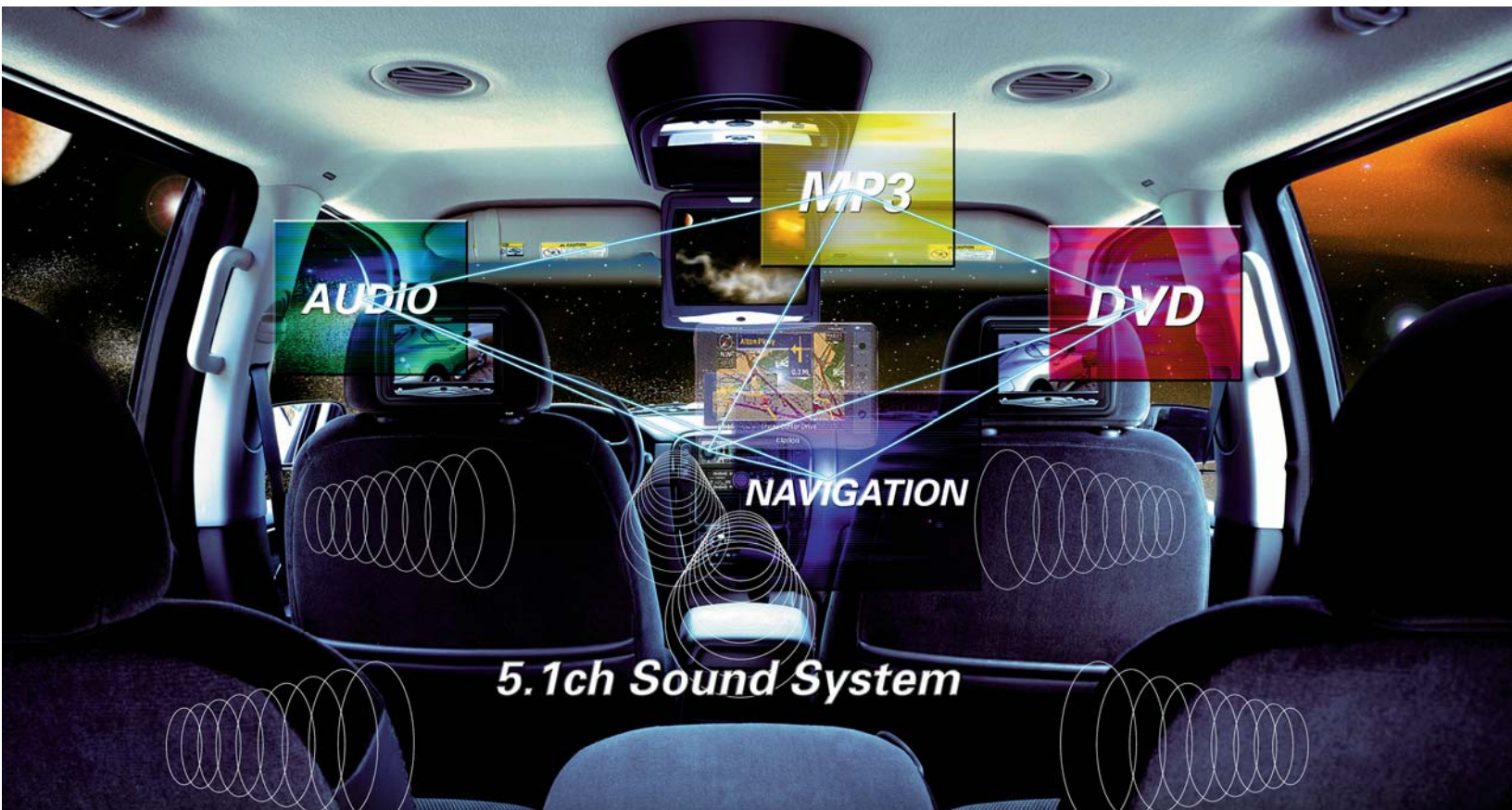
JoyRoute Navigation



This navigation option uses the color display on the face of Joyride as well as voice command and response. It uses NAVTECH® mapping information stored on a DVD-ROM or CD-ROM that corresponds to your driving area, so you can drive with confidence.

The CD-ROM can be used in the Joyride main unit, or can be accessed from the optional UC6 6 disc CD changer, while the DVD ROM is used in the main unit.

JoyRoute also uses a POI interface to allow rapid selection of nearby facilities such as hotels, ATMs, shopping malls, etc.



Joyride can play DVD video and display it for rear seat passengers.

Joyride can play DVD video and display it for rear seat passengers. It also has built-in audio decoders for Dolby Digital and DTS for true 5.1 mobile theater surround sound. It can also playback DTS encoded audio discs for truly awesome 5.1 audio from this medium. You can also use the optional navigation system while watching DVD movies, thanks to Joyride's dual zone capability.

MP3 playback is standard with Joyride.

MP3 playback is standard with Joyride. You can play CD-R discs with MP3 files burned on them, or use the convenient Compact Flash Card slot to playback MP3 files on handy CF cards. Joyride also allows you to use the new Microdrive cards for up to 1 MB of storage!

Want to play a CD?

Want to play a CD? Just press the open button on Joyride's front panel, and the motorized faceplate will open to expose the loading slot. Just insert your CD, and Joyride will automatically start playback. You can also playback WAV files burned on to a CD-R. With the optional 6 disc changer, hours of music are available with a press of a button! Joyride allows you to store 30 FM and 10 AM stations into memory.

Joyride is the most advanced in-car multimedia product available today.



UC6 USB 6-DISC CHANGER

- Audio Features:
- 6 Disc Magazine
 - CD/CD-R/CD-ROM (Navigation Discs Only)
 - Spring-Loaded Silicon Oil-Damped Suspension System
 - 3 Beam Laser Tracking System
 - 120 Degree Mounting Capability
 - USB Connectors (1 Input, 1 Output)



JOYNAVI GPS/GYRO/SPEED PULSE UNIT W/JOYROUTE SOFTWARE AND DVD MAP DISC

- 12 Channel GPS Receiver
- USB Connector
- Built-in Gyro
- Weatherproof GPS Antenna w/Magnet Mount
- Speed Pulse Sensor Lead
- Includes JoyRoute Software w/Moving Map Display
- Includes DVD-ROM Map Disc of Continental U.S.



JOYRIDE

AM/FM/DVD/MP3 W/CD CHANGER CONTROL

Audio Features:

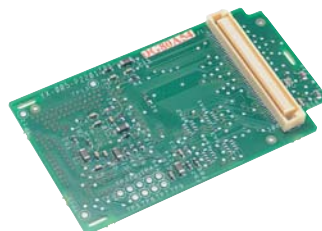
- Intel Pentium processor w/MMX Technology
- DVD Video, DVD-ROM, CD Audio, CD-R, CD Video Player
- Dolby Digital and DTS 5.1 Audio Decoders Built-in
- MP3 and Digital Audio Player
- Dual Zone Control
- 10 Band Digital Graphic EQ
- Burr Brown 24 Bit D/A Decoders
- Voice Activated Control and Response
- 180-Watt (45W x 4)
- Rotary Volume Control
- Motorized Fold-Down Face
- Type II Compact Flash Card Slot
- Infrared Remote Control



RCBI39

JOYRIDE IR REMOTE CONTROL

- Infrared Remote Control
- Controls Key Product Functions
- Controls DVD Player Functions from Rear Seat



RGB201

RGB VIDEO CARD

- Plugs Inside Main Unit
- Output for RGB Monitor
- For Large Screen Navigation and User Interface Displays
- Packaged w/CCA575 2.5m RGB Cable



RGB-NTSC

RGB TO NTSC CONVERTER

- Converts RGB to NTSC Video Signal (RCA)
- IR Remote Receiver Eye
- For Large Screen Navigation



USB-HUB

4 PORT USB HUB

- Easily Add Multiple USB Devices
- 1 USB Input
- 4 USB Outputs
- Supplies Power to USB Accessories



VMA6492

6.4" LCD MONITOR W/RGB INPUT

- TFT Active Matrix Color Display
- RCA Composite Video and RGB Input
- IR Receiver Built-in
- Brightness Control on Front Panel
- Power Indicator on Front Panel
- Composite/RGB Video Switch on Front Panel



WR 1J

CUE WIRELESS RECEIVER

- Real Time Traffic Information
- Weather Reports
- News Headlines
- Sports Scores
- Requires Activation for Some Features

NAVIDSC100

NAVIGATION SOFTWARE APPLICATION

JoyRoute Features

- Visual and Voice Turn-By-Turn Guidance
- Voice Control and Response
- Moving Map or Turn-By-Turn Display
- Uses GPS/Gyro and Speed Pulse for Calculating Location

Additional JoyRoute Plus Features:

- 2D or 3D Map View on External Display (optional)
- Larger Map Viewing Area



SDCFB64

64MB COMPACT FLASH CARD

- 64 MB
- Type I Compact Flash Card
- Stores Data for Export and Backup
- MP3/WAV Storage



SDFCB32

32MB COMPACT FLASH CARD

- 32 MB
- Type I Compact Flash Card
- Stores Data for Export and Backup
- MP3/WAV Storage



DA300

ANDREA AUTOARRAY MICROPHONE

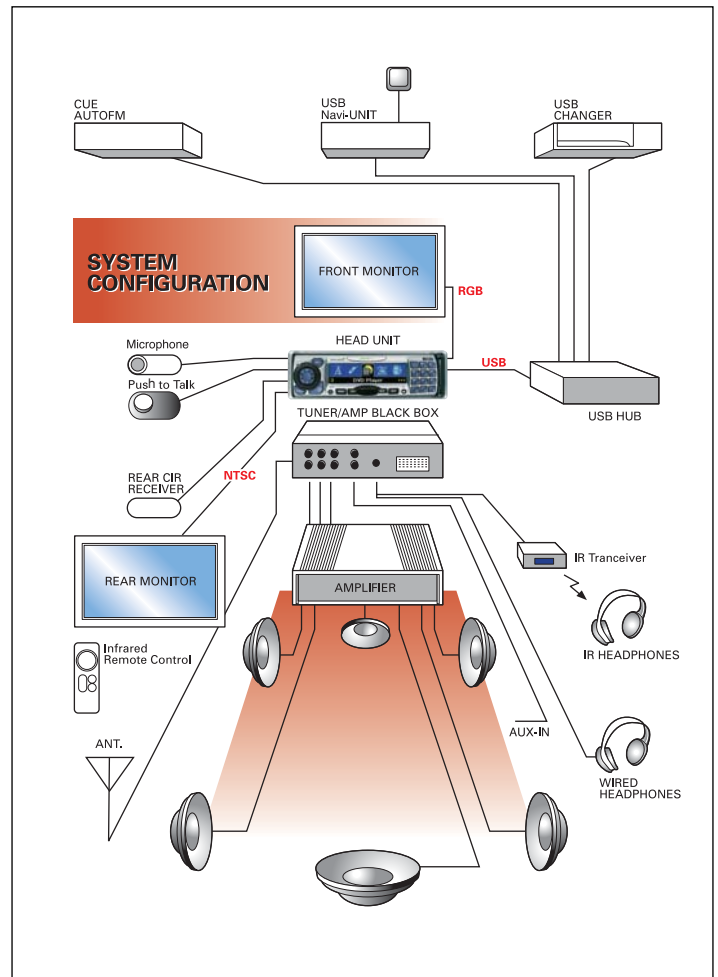
- 4-Element Microphone Array
- Built-in SDSP for Noise Canceling
- Clip-on Visor Mount



SDCF03

COMPACT FLASH CARD ADAPTER

- PCMCIA to Type I Flash card Reader-Writer
- Call 1-888-NAV MAPS to Order Maps



No wonder DVD is becoming the media of choice for serious car multimedia theater systems.

DVD has become the standard to which all other video playback systems are compared. It is the de facto medium for home theater, and is the most requested feature for in-car multimedia theater systems. With features such as wide screen displays, excellent audio/video reproduction, and easy scene location, no wonder DVD is the media of choice for serious car multimedia systems.

DVD players offer the best in digital sound available today. They can play conventional audio CDs with 24 bit accuracy. With Dolby Digital 5.1 channel surround sound available on almost every DVD, using the proper 5.1 decoder with a DVD player can make your car sound just like a movie theater.

For 2002, Clarion has a wide selection of DVD options.

At the forefront is the new VRX925VD, an in-dash AM/FM/DVD/CD/MP3 player with a fully motorized 7" wide screen color LCD display including touch screen control of all major functions. It includes a 2 zone switcher that allows rear seat passengers to enjoy a separate audio/video program on a rear monitor screen, while the front seat passengers enjoy a completely separate source. The VRX925VD controls the VDZ625 6 Disc DVD player, and plays conventional CD audio, DTS audio discs as well as MP3 files burned on a CD-R.

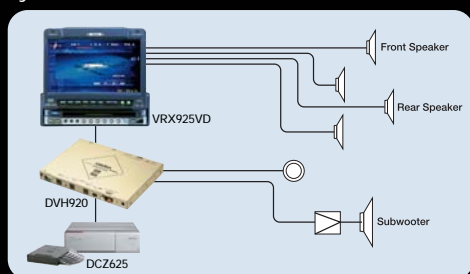
To complete the ultimate multimedia theater system is the DVH920 hide away Dolby Digital/DTS/Dolby Pro Logic II processor/decoder. The DVH920 contains Dolby Pro Logic II processing, in its first use in the mobile environment. This processor creates a stunning surround sound effect from normal 2-channel audio sources, digital or analog. It even creates a phantom center channel image to further enhance the realistic multi-channel surround audio. The DVH920 has built-in parametric EQs and independent digital crossovers for front, center, rear and subwoofer channels. An optional controller, the DVC920, lets the DVH920 be used with any source unit to provide the most flexibility in setting up your ultimate multimedia theater system. Last, but not least is the VS715, a 1-DIN sized in-dash DVD/CD/MP3 player with an IR remote control and on-screen programming.

With Clarion DVD products its easy for you to make the right choices to have the ultimate mobile multimedia theater system available today.

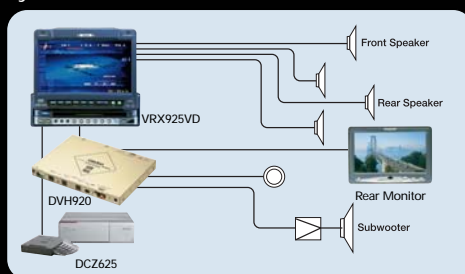
WARNING: Driver is prohibited by law from viewing a video signal on any in-dash monitor while the vehicle is in motion.

DVD system Example

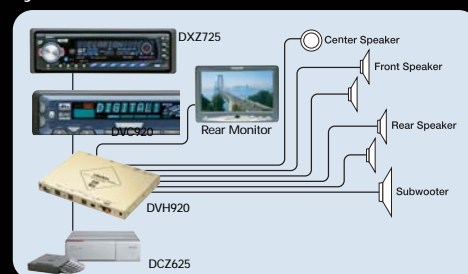
system1



system2

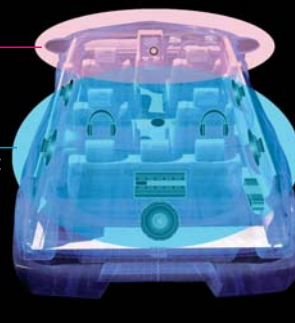


system3



ZONE:1
AUDIO

ZONE:2
Entertainment
/DVD





VRX925VD *NEW*

AM/FM/DVD PLAYER/CHANGER CONTROL, FULLY MOTORIZED 7" WIDE SCREEN TOUCH PANEL LCD MONITOR

- Fully Motorized 7" Wide Screen Color LCD Display
- Touch Panel Control
- Single Play DVD Mechanism plays: DVD Video, CD Audio, CD Video, MP3
- Magi-Tune Tuner with 18FM/6AM Presets
- Sirius Satellite Radio Ready
- CeNET Control
 - Controls Optional Dolby Digital/DTS 5.1 Processor
 - Controls Optional TV Tuner
 - Controls Optional Sirius Satellite Radio Receiver
 - Controls Optional DVD Changer and 6 Disc Audio CD changer
- Multi-Changer Control, CD Text, CD Titling (Audio Changer Only), Station Titling
- Plays MP3 CD-R discs
- 3 Band Parametric EQ (Beat EQ)
- 4 Volt 6-Channel RCA Line Level Output
- 24 Bit DAC's
- Fiber Optic Output for Use w/DVH920 5.1 Dolby Digital/dts Decoder/Processor
- 200-Watt (50W x 4)
- IR Remote Control
- Partially Detachable Faceplate

LCD Screen Saver for an Enjoyable Driving Experience

In Clarion's VRX925VD, you can select your favorite wall paper and motion patterns for the display panel based on your car's interior, the music being played, the fashion of the day, or your mood.



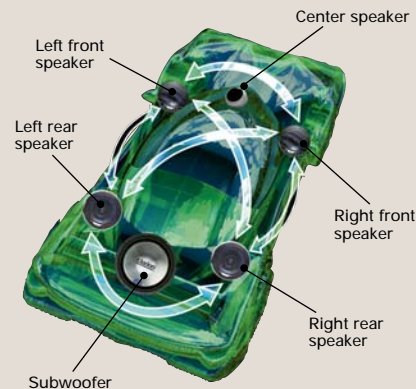
Dolby Digital and DTS Digital Surround Systems for Recreating the Experience of Theatre Surround Sound

The Dolby Digital and DTS 5.1-channel surround sound systems were developed for recreating the surround sound effect of movie theaters in a home theater setup. Now, Clarion's new car entertainment units incorporate both of these decoders in its systems.

Dolby Digital incorporates three front channels (front left, center, front right), two surround channels (rear left, rear right), and an extra channel (low frequency effects) for playback of low-frequency sounds less than 120 Hz. These channels are used to recreate a lifelike surround sound field with precision positioning, sense of proximity and distance, and sense of movement. Like Dolby Digital, DTS is also a 5.1 channel surround system, but it uses a lower digital compression ratio when recording to DVD and other media for providing a surround sound with more detail and full of density and impact.

With the DVH920, you can enjoy DVD theater surround sound from the two most popular decoding systems.

DVD Mobile Theater Sound System



The right and left front speakers, center speaker, right and left rear speakers, and subwoofer feature completely independent digital audio. The intensity of the sound effects make you feel as if you are right in the movie scene. The sounds moving between the front and back and along the diagonal are also reproduced with astonishing intensity.



DVD offers the best digital sound available today. It can play conventional CDs with 24 bit accuracy.



VCZ625 *NEW* 6 DISC DVD/CD/CD VIDEO/MP3 CHANGER

- Slave or Stand Alone Operation
- CeNET
- 6 Disc DVD Mechanism Plays: DVD Video, CD Audio, CD Video, MP3 Encoded CD-R/RWs, DTS Audio CD
- 24 Bit DAC
- CD Text (Audio CD)
- Fiber Optic Output for Use w/DVH920 5.1 Dolby Digital/dts Decoder/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
- RCA Composite Video Output
- Remote IR Eye
- Includes 5m CeNet Cable and 5m AV Cable (for Stand Alone Use)
- IR Remote Control



DVH920 *NEW* 5.1 DOLBY DIGITAL/DTS/PRO LOGIC II AUDIO PROCESSOR

- Stand Alone/Slave Hide Away Processor
- Decodes: Dolby Digital, DTS, DTS Audio CD, Dolby Pro Logic II
- Directly Controlled by VRX925VD and DXZ925
- 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, and Rear Channels
- 50/80/120Hz Selectable High Pass Crossover for Front, Center, and Rear Channels
- 50/80/120Hz Selectable Low Pass Crossover for Subwoofer
- Speaker Time Delay Settings
- 24 Bit DAC's
- 24 bit A/D Converters
- One 2-Channel RCA Line Level Analog Input
- One CeNet Analog Line Level Input
- Two Digital Fiber Optic Inputs
- Optional DVC920 Controller Allows Use With Any Source Unit



VS715 1-DIN IN-DASH/STAND-ALONE DVD/MP3/CD VIDEO PLAYER

- Dolby Digital Optical Output (SPDIF Digital Output-Toslink)
- Composite Video Input/Output
- IR Remote
- IR Receiver Built In
- Plug-In IR Input
- On-Screen Programming
- Backup Eject (Key Off Eject)
- Left/Right Audio Output
- 1-Din In-Dash or Slave Unit
- Din/Trunk Mount Applications



DVC920 *NEW* 5.1 AUDIO PROCESSOR CONTROLLER

- Connects to DVH920 Processor
- Controls All Functions of DVH920
- Contrast Adjust
- High Visibility Multi-Color Display
- Screen Saver Mode



CD-R | CDText | 4V/6ch Output | DCP
 TV Control | CD Control | DSP Control

VRX815

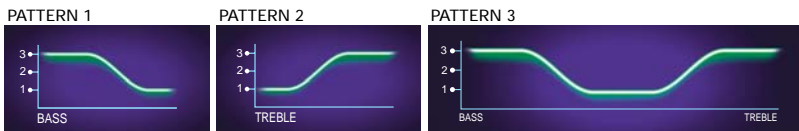
AM/FM CD PLAYER/CHANGER CONTROLLER, FULLY MOTORIZED 7" WIDE SCREEN TOUCH PANEL LCD MONITOR

Fully Motorized 7" Wide Screen Color LCD Display

- Touch Panel Control
- Single Play CD Mechanism
- Magi-Tune Tuner with 18FM/6AM Presets
- CeNET Control Controls Optional EQ/DSP Processor, Optional TV Tuner, Optional 6 Disc CD changer, Multi-Changer Control, CD Text, CD Tinting, Station Tinting
- Z-Enhancer
- 4 Volt 6-Channel RCA Line Level Output
- 180-Watt (45W x 4)
- Partial Detachable Faceplate
- IR Remote Control

Z-ENHANCER

Three types of sound quality patterns can be selected during programming with a single touch of the buttons on the control panel



Partial DCP

To prevent theft, the control button section can be detached with a release key. This allows you to remove the panel and carry it with you when you leave your car to protect your VRX815 from theft.

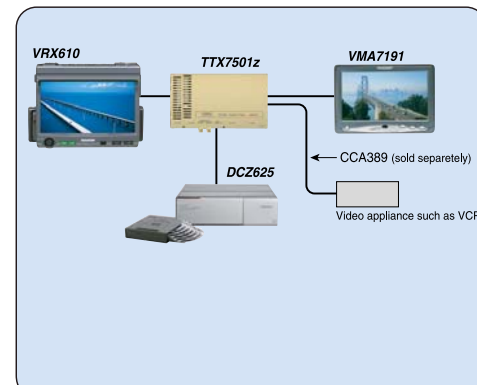
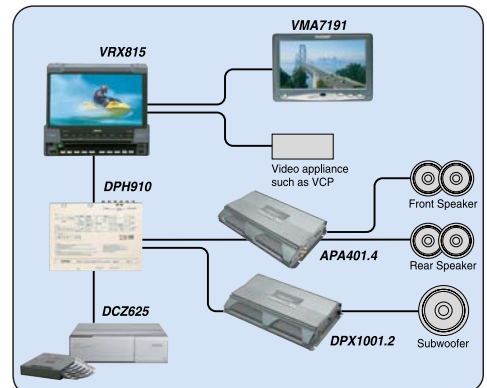
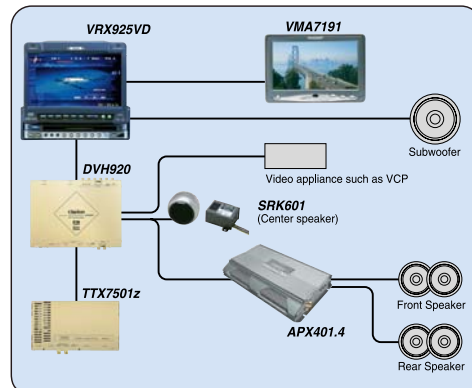


In-Dash 7-Inch Monitor with Fully Motorized Mechanism

Clarion's VRX815 features a large 7-inch monitor with a fully motorized mechanism that opens at the touch of a button. Once the monitor panel is opened, you can move it either forward or backward in one of three positions to adapt to the shape of the car's dashboard. The tilt angle can also be adjusted to one of five positions for maximum visibility and to minimize reflections and glare, and the monitor will remember this setting when it is used the next time. Of course, the fully motorized mechanism also stows away the monitor at the touch of a button.



TV System Examples



Clarion's multizone product allows the ultimate in system design and flexibility



4ch Output DCP
TV Control CD Control DSP Control

VRX610

AM/FM CD CHANGER CONTROLLER, MOTORIZED 6.4" WIDE SCREEN LCD MONITOR

- Motorized 6.4" Wide Screen Color LCD Display
- 1-DIN Unit, No Hide Away Box
- Magi-Tune Tuner with 18FM/6AM Presets
- A/V Input w/Optional CCA389 Cable
- CeNET Control of Optional EQ/DSP Processor, Optional TV Tuner, Optional 6 Disc CD changer, Multi-Changer Control, CD Text, CD Tinting, Station Tinting
- Z-Enhancer
- 4-Channel RCA Line Level Output
- 160-Watt (40W x 4)
- Detachable Faceplate
- IR Remote Control



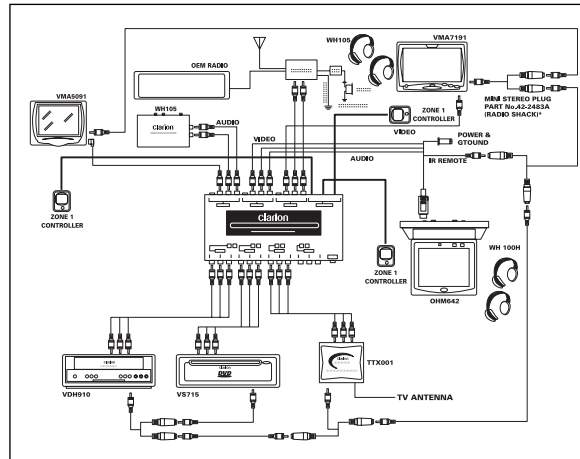
C-BUS TV Control CD Control

TVX5653

TV/CD CHANGER CONTROLLER, MOTORIZED 5.8" LCD DISPLAY

- Motorized 5.8" Wide Screen Color LCD Display
- C-BUS Controller
- Built-in TV Tuner (Channels 2-69)
- 4 Antenna Diversity TV Tuner
- 12 Station Presets
- Built-in FM Modulator
- Rear A/V Input w/CCA389 cable
- IR Remote Control

Multi-Zone & Rear Seat Monitors



Clarion's multi-zone product allows the ultimate in system design and flexibility.

Want to watch a DVD movie on multiple monitors? No problem. View a DVD movie on one monitor and play a video game on a second monitor? Can do. Listen on headphones and watch a video tape in the back seat while the front seat passengers listen to Dolby Pro Logic II audio? With the MSS430 all of the above examples can be handled with a minimum of extra components.

The MSS430 "Source Commander" is a combination audio and video switcher with a built-in video amplifier for top notch video on up to three LCD monitors. It can accept up to 4 different video sources

(Ex: DVD, VHS, TV Tuner, Video Game, Rear Vision Camera, or Video camera) and send any combination of inputs to any of three monitors and headphones independently. The possibilities are endless. And by using our wireless headphones, installation is a breeze.

Our new overhead flip down monitors, OHM820 and OHM720 have built-in transmitters for wireless headphones, and even include 2 wireless headphones as part of the system. Each has the option of adding a TV tuner and an FM Modulator for an entire stand-alone rear seat entertainment package. All of our monitors have built-in IR receivers, which make multi-monitor single remote control integration easy.



OHM820 *NEW*

8" FLIP-DOWN COLOR LCD MONITOR W/IR AND DOME LIGHTS

- Universal Roof Mount
- TFT Active Matrix Display
- Swivel Mechanism
- 2 RCA Composite Video Inputs
- 1 RCA Composite Video Output
- Lightweight Plastic Housing
- Dome Light Built-in
- IR Transmitter for Wireless Headphones Built-in
- Front Panel Power Indicator and Separate Power, Channel Up/Down, Aux., FM Modulator and Picture Mode Button Controls
- FM Modulator Output Connector (for FM200 Add-On's)
- Includes Universal Mounting Bracket and 2 WH100H Wireless Headphones
- IR Remote Controls Monitor Functions, Optional VDH910 VHS Player and Optional TTX001 TV Tuner
- Includes Ribbon Cable (for TTX001 Add-On's)



OHM720 *NEW*

7" WIDE SCREEN FLIPDOWN COLOR LCD MONITOR W/IR AND DOME LIGHTS

- Universal Roof Mount
- TFT Active Matrix Display
- Swivel Mechanism
- 16:9/4:3 Adjustable Wide Screen Format
- 2 RCA Composite Video Inputs
- 1 RCA Composite Video Output
- Lightweight Plastic Housing
- Dome Light Built-in
- IR Transmitter for Wireless Headphones Built-in
- Front Panel Power Indicator and Separate Power, Channel Up/Down, Aux., FM Modulator and Picture Mode Button Controls
- FM Modulator Output Connector (for FM200 Add-On's)
- Includes Universal Mounting Bracket and 2 WH100H Wireless Headphones
- IR Remote Controls Monitor Functions, Optional VDH910 VHS Player and Optional TTX001 TV Tuner
- Includes Ribbon Cable (for TTX001 Add-On's)



OHM642

6.4" OVERHEAD FLIPDOWN COLOR LCD MONITOR

- Universal Roof Mount
- IR Receiver Built-in
- IR Transmitter for WH100H Headphones
- Dome Light Built-in
- TFT Active Matrix Color Display
- RCA Composite Video Input
- Back Lighting Off w/No Signal
- Adjustable Viewing Angle
- Front Panel Power Indicator and Brightness Control
- Lightweight Plastic Housing



VMA7191

7" WIDE SCREEN COLOR LCD MONITOR

- TFT Active Matrix Display
- 2 RCA Composite Video Inputs
- Selectable 16:9/4:3 Wide Screen Format
- On-Screen Display
- IR Receiver Built-in
- Front Panel Power Button and Picture Control
- Perfect Fit-Installs in HRM150 Headrest Mounting Bracket



VMA6491

6.4" COLOR LCD MONITOR

- TFT Active Matrix Display
- RCA Composite Video Input
- IR Receiver Built-in
- Front Panel Power Indicator and Brightness Control
- Perfect Fit-Installs in HRM150 Headrest Mounting Bracket



VMA5091

5" COLOR LCD MONITOR

- TFT Active matrix Display
- Includes Perfect Fit Mounting Bezel and 2 Trim Rings for Quick and Easy Installation
- RCA Composite Video Input
- IR Receiver Built-in
- Front Panel Power Button and Picture control



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 Control Stations
- Rear Camera Reverse Trigger Input
- Allows Simple Switching Between DVD, VCR, TV, and CCD



TTX001

STAND ALONE/SLAVE TV TUNER

- IR Remote Control
- Plug-In IR Remote receiver
- Stereo Audio Output
- Composite Video Output
- Add-on Tuner for OHM820 and OHM720 Flip-Down Monitors
- Stand Alone Tuner



TTX7501z

TV TUNER FOR CeNET

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



TTX7601

STAND-ALONE DIVERSITY TV TUNER W/BUILT-IN FM TRANSMITTER AND IR REMOTE

- Diversity Tuner System
- 1 RCA Composite A/V Input
- 2 RCA Line Level Audio Outputs
- 1 RCA Composite Video Output
- Mini DIN 8P (for Camera or VCR w/Optional CCA389 Cable)
- Built-in FM Wireless Transmitter
- Stereo TV Audio
- IR Remote Control and IR Eye



VDH910

VHS HI-FI VIDEO CASSETTE RECORDER W/TV TUNER

- Built-in 181 Channel FS Tuner
- Front and Rear RCA A/V Inputs
- RCA A/V Outputs
- On-Screen Display
- IR Remote Control
- Plug-in Remote IR Eye
- Horizontal and Vertical Mounting
- Dew and Heat Sensor
- Hi-Fi Stereo Audio

SOURCE UNIT INFO



Clarion's high quality sound technologies for 2002 Source Units



Dual Action Design

You get 2-DIN operational capabilities in a 1-DIN loading space. That's because the front panel doesn't simply flip down, it comes out and slides down in a smooth, motorized

motion. So while you load or eject a disc, you'll continue to have full access to all the controls of the head unit.

Pure Aluminum Front Panel

Clarion's head unit lineup features front panels made of die-cast aluminum, which not only provides an extra degree of stability and shielding but also adds to the deluxe look of the units. Pro Audio units are distinguished by their black aluminum faceplate design.



AC Processor II



● Dolby Pro Logic II

Lets you enjoy 5.1-channel surround with 2-channel sources including DVD, CD, MP3, and radio. Pseudo 5.1-channel surround using 4 speakers is also possible.

● 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.

● Parametric EQ

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



CD-R/CR-RW Playback

You can burn your own CD-R/CD-RW discs on a PC or disc recorder and play them in your Clarion source unit.

MP3 Decoder

The MP3 decoder enables direct playback of CD-R/RW containing MP3 files so you can enjoy continuous playback of up to 12 hours on a single disc.



High Power 50W x 4 output

With powerful 50W x 4 amplification in the head unit, you can enjoy a high-powered car audio experience even without external power amps.



Retractable Rotary Volume Control

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

High Brightness LCD with Electric Blue Color

A high-luminance clear blue LCD is used for the display panel. The high contrast display minimizes eye strain and lets you visually confirm the status of the system at a glance.



Color Highlight Buttons

Various control buttons on the front panel illuminate a second color to make them easier to see and to operate. They also add a stylish accent to the head unit's design.



24-bit D/A Converter

Re-quantizes the 16-bit audio signals from CDs and DVD's as 24-bit data while maintaining the low distortion and high linearity of a 1-bit D/A converter. This allows an expanded dynamic range and clearer reproduction of subtle nuances, for a richer sound when viewing DVD's or listening to CDs.

Beat EQ

Lets you compensate for the individual shortcomings in the sound characteristics of your vehicle's interior with 3 parametric settings for low, middle and high frequency ranges. It gives you a level of sound control that's just not possible with conventional Bass and Treble controls.



Z-Enhancer PLUS & 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

Boosts the bass range in the vicinity of 60 Hz by nearly 10 dB, so the bass comes through loud and clear even if you're listening at low volume.



PRO AUDIO SOURCE UNITS



ProAudio



DXZ925 *new*

AM/FM CD PLAYER W/CD/DVD CHANGER CONTROLLER

- Motorized Dual Action Detachable Face
- Dolby Pro Logic II
- Sirius Satellite Radio Ready
- CeNET Controls Optional Dolby Digital/DTS 5.1 Processor, Optional TV Tuner, Optional Sirius Satellite Radio Receiver, Optional DVD Changer and 6 Disc CD Changer, Multi-Changer Control, CD Text, CD Titling, Station Titling
- Steering Wheel IR Remote Control
- Dual 24 Bit DACs
- Plays CD-R & CD-RWs
- 3 Band Parametric EQ (Beat EQ)
- Built-in DSP for Time Alignment, Seat Position, Virtual Space Enhancer
- 4 Volt/6 Channel RCA Line Level Output
- 2 Channel Aux. Input
- Built-in adjustable High-Pass crossovers for Front/Rear/Center Channels
- Built-in adjustable Low-Pass crossover with Subwoofer Volume Control
- Adjustable Display Contrast
- 200-Watt (50W x 4)
- Magi-Tune+ Tuner with 18FM/6AM Presets
- Screen Saver
- Aluminum Faceplate



A/C II AC Processor II

•Dolby Pro Logic II

Lets you enjoy 5.1-channel surround with 2-channel sources including DVD, CD, MP3, and radio. Pseudo 5.1-channel surround using 4 speakers is also possible.

•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.

•Parametric EQ

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

DOLBY SURROUND PRO LOGIC II

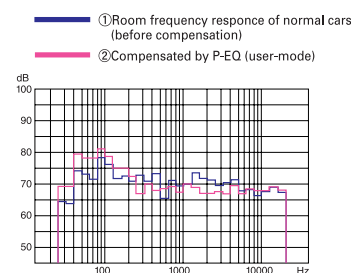
Clarion is the first to bring this innovation into the arena of car audio. While Dolby Digital and DTS require 5.1-channel encoded software in order to produce 5.1-channel surround sound, Dolby Pro Logic II can create a 5.1-channel sound effect from ANY 2-channel software. So even if your favorite DVD movie is only in stereo, no problem. You can even enjoy stereo music CDs, MP3 audio and radio programs with 5.1-channel sound. What's more, Dolby Pro Logic II has a phantom mode that simulates the center speaker so you can reproduce a quasi 5.1-channel soundscape from the four standard speakers of a car audio system.



3-Band Parametric Equalizer and BEAT EQ

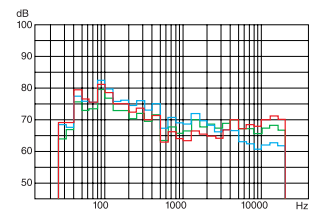
Conventional tone control (BASS and TREBLE) cannot adequately make adjustments for the acoustic characteristics inside the car. Clarion's new 3-BAND PARAMETRIC EQUALIZER and BEAT EQ allow you to make corrections to the sound characteristics separately for the low-range, mid-range, and high-range bands. With the BEAT EQ, you can easily make adjustments by selecting the BASS BOOST (BEQ-1), IMPACT (BEQ-2), or EXCITE (BEQ-3) options.

Example of sound field corrections made using the parametric equalizer



BEAT EQ frequency characteristics

- ① Room frequency response of normal cars (before compensation)
- ② Compensated by P-EQ (user-mode)
- ③ BASS-BOOST (BEQ-1)
- ④ IMPACT (BEQ-2)
- ⑤ EXCITE (BEQ-3)



	Frequency	Level	Q (Sharpness)
BASS	50Hz, 80Hz, 120Hz	-12 dB to +16 dB	1, 1.25, 1.5, 2
MID	700Hz, 1kHz, 2kHz	-12 dB to +12 dB	1.5, 2
TREBLE	8 kHz, 12 kHz	-12 dB to +12 dB	0.8



ProAudio



Retractable Rotary Volume Control



DXZ825 *NEW*

AM/FM CD PLAYER W/CD/DVD CHANGER CONTROLLER

- Motorized Detachable Face
- Dual 24 Bit DACs
- Plays CD-R & CD-RWs
- Sirius Satellite Radio Ready
- CeNET
 - Controls Optional TV Tuner, Optional Sirius Satellite Radio Receiver, Optional DSP/EQ Processor, Optional DVD Changer and 6 Disc CD Changer
- Multi-Changer Control, CD Text, CD Titling, Station Titling
- 3 Band Parametric EQ (Beat EQ)
- 4 Volt/6 Channel RCA Line Level Output with Non-Fade Volume Control
- 2 Channel Aux. Input
- Adjustable Display Contrast
- IR Remote Control
- 200-Watt (50W x 4)
- Magi-Tune+ Tuner with 18FM/6AM Presets
- Multi-Color Display
- Retractable Rotary Volume Control
- Dual Illumination on Controls
- Full Dot (65x7) Matrix Display
- Screen Saver
- Aluminum Faceplate

Specially-Designed Power IC for Superior Sound Quality

Clarion's car entertainment systems incorporate new power ICs using vertical power transistors in the amplifiers to provide high-efficiency, low-distortion

output. The amplifier power is important for high-quality playback of music from CDs and MDs because of their wide dynamic range. Also, high-power amplifiers can accurately pick up and play back the sudden shifts and wide dynamic range inherent in digital sources for not only booming sounds but also for the subtle nuances in low-volume sounds.



Sturdy Aluminum Panel

The aluminum extrusion-molding panel uses top-range components to add a refined feel to your car's interior. The design is the product of advanced machining and surface coating technology. This panel gains its distinctive elegance from its unique panel design.

CeNET Control System

CeNET technology enables bi-directional communication between the source control unit and all CeNET compatible products, such as DVD changers, CD audio changers, Audio Processors, and 5.1 Audio Processors. This advanced control system allows adding components at any time for a true "plug and play" system, and enables CD title display along with TV Tuner display information and Tuner station titling as well (in units with Dot-Matrix displays). CeNET also uses balanced line audio for superior signal transfer and high noise rejection, resulting in noise-free installations.

Contrast Adjust

With Contrast Adjust, the user has complete control over the new Dot Matrix display. You can optimize the display brightness and contrast for the best view, no matter how low or high in the dash the source unit is mounted.



24 Bit D/A Converter

The 24-bit Converter re-quantizes the audio signals from CDs and DVDs as 24 bit data while maintaining the low distortion and high linearity of a 1-bit D/A converter. This allows an expanded dynamic range and clearer representation of delicate and rich sounds with intensity from CD and DVD playback.

PRO AUDIO SOURCE UNITS



ProAudio



Retractable Rotary Volume Control

DXZ725 *NEW*

AM/FM CD PLAYER W/CD/DVD CHANGER CONTROLLER

- Motorized Detachable Face
- Plays CD-R & CD-RWs
- Sirius Satellite Radio Ready
- CeNET Controls Optional TV Tuner, Optional Sirius Satellite Radio Receiver, Optional DSP/EQ Processor, Optional DVD Changer and 6 Disc CD Changer, Multi-Changer Control, CD Text, CD Tinting, Station Tinting
- 3 Band Parametric EQ (Beat EQ)
- 6 Channel RCA Line Level Output with 4 Volt Front & Non-Fade Outputs
- Non-Fade Volume Control
- 2 Channel Aux. Input
- IR Remote Control
- 200-Watt (50W x 4)
- Magi-Tune+ Tuner with 18FM/6AM Presets
- Multi-Color Display
- Retractable Rotary Volume Control
- Screen Saver
- Aluminum Faceplate

DXZ525 *NEW*

AM/FM CD PLAYER W/CD/DVD CHANGER CONTROLLER

- Flip Down Detachable Face
- Plays CD-R & CD-RWs
- Sirius Satellite Radio Ready
- CeNET Controls Optional Sirius Satellite Radio Receiver, Optional DVD Changer and 6 Disc CD Changer, Multi-Changer Control
- Z-Enhancer PLUS
- 2-Band Parametric EQ
- 4 Channel RCA Line Level Output
- 2 Channel Aux. Input
- IR Remote Control
- 200-Watt (50W x 4)
- Magi-Tune+ Tuner with 18FM/6AM Presets
- Multi-Color Display
- Screen Saver
- Illuminated Blue Accent Panels
- Aluminum Faceplate



ProAudio



Rotary Volume Control

SIRIUS READY

Sirius Satellite Radio
Sirius Satellite Radio is a new technology that transmits CD quality digital audio through a series of 3 satellites orbiting the Earth. This enables you to receive up to 100 channels of music, news, sports, talk radio, etc. anywhere in the Continental United States. Up to 50 specialized music channels are commercial free, with 9 different categories available, such as Rock, Classical, Jazz, and New Wave. Sirius Satellite Radio requires a special receiver and antenna to receive the broadcasts. All 2002 ProAudio source units will directly control the Sirius Satellite Receiver, while 2001 CeNet products with AUX. inputs can use the Sirius Satellite Radio Receiver with the optional DSC920S Sirius Satellite Receiver Controller.



RRC (Retractable Rotary Control)

The Retractable Rotary Control makes adjustments of the most used audio features (Volume, Beat EQ, Bass, Treble, Balance and Fader) easy. With its rubber-coated grip surface, the Retractable Rotary Control pops out of the faceplate for adjustments, and then can be retracted back into the face.



Color Highlight Buttons

Various control buttons on the front panel illuminate a second color to make them easier to see and to operate. They also add a stylish accent to the head unit's design.

What is SIRIUS Satellite Radio?

Sirius is radio the way it was meant to be: up to 100 new channels of digital quality programming delivered to listeners coast to coast via satellite. That means 60 channels of completely commercial-free music. Plus up to 40 more channels of news, sports, and entertainment from names like CNBC, Discovery, SCI-FI Channel, A&E, House of Blues, NPR, Speedvision and Comedy World. Sirius is live, dynamic entertainment, completely focused on listeners. Every minute of every day of every week will be different. All 50 commercial-free music channels are created in-house and hosted by DJs who know and love the music. Do you like Reggae? How about Classic Rock or New Rock? Sirius has an array of choices spanning a vast range of musical tastes including the hits of the 50's, 60's, 70's, & 80's as well as Jazz, Country, Blues, Pop, Rap, R&B, Bluegrass, Alternative, Classical, Heavy Metal, Dance and many others...

From its state-of-the-art, digital broadcasting facility in Rockefeller Center, New York City, Sirius will deliver the broadest, deepest mix of radio entertainment from coast to coast. Sirius will bring you music and entertainment programming that is simply not available on traditional radio in any market across the country. It's radio like you've never heard before.



DSH920S *NEW*
SIRIUS SATELLITE RECEIVER

- CeNET Controlled
- Band Selector
- Seek Tuning
- Preset Memory Mode

- Category Scan
- Preset Scan
- Category Selection



DSC920S *NEW*
SIRIUS SATELLITE RECEIVER CONTROLLER

- Complete Control of the DSH920S Sirius Satellite Receiver
- Allows DSH920S to be used with 2001 CeNet Source Units w/AUX. Inputs
- Scrolling Text Display
- Screen Saver
- Adjustable Contrast



FM200
FM MODULATOR

- 2 Channel RCA Audio Input
- On/Off Switch
- Gain Control

SA100 *NEW*
SIRIUS SATELLITE RADIO ANTENNA

- Low Profile Design
- No-Hole Roof Mount
- Adhesive Mounting

SOURCE UNITS



CD-R/RW | 4ch Output | 2ch Input | DCP

DB625MP *NEW*

AM/FM CD PLAYER W/MP3

- Flip-Down Detachable Face
- MP3 player
- Plays CD-R & CD-RWs
- 3 Band Tone Control
- 6 Channel Line Level Output
- 2 Channel Aux. Input
- 200-Watt (50W x 4)
- Magi-Tune Tuner with 18FM/6AM Presets
- Multi-Color Display
- Adjustable Display Contrast



CD-R/RW | 4ch Output | DCP | CD Control



DX425 *NEW*

AM/FM CD PLAYER W/ CD CHANGER CONTROLLER

- Detachable Face
- Plays CD-R & CD-RWs
- 4 Channel RCA Line Level Output
- IR Remote Control
- 200-Watt (50W X 4)
- Z-Enhancer PLUS
- Magi-Tune Tuner with 18FM/6AM Presets
- Random Play, Track Repeat, Intro Scan
- Electric Blue LCD Display
- Screen Saver
- Aluminum Faceplate
- C-BUS Changer Control



CD-R/RW | 4ch Output | DCP



DB325 *NEW*

AM/FM CD PLAYER

- Detachable Face
- Plays CD-R & CD-RWs
- 4 Channel RCA Line Level Output
- IR Remote Control
- 200-Watt (50W x 4)
- Z-Enhancer PLUS
- Magi-Tune Tuner with 18FM/6AM Presets
- Random Play, Track Repeat, Intro Scan
- Electric Blue LCD Display
- Screen Saver
- Aluminum Faceplate



2ch Output | DCP

DB225 *NEW*

AM/FM CD PLAYER

- Detachable Face
- 2 Channel RCA Line Level Output
- 200-Watt (50W x 4)
- Z-Enhancer
- Magi-Tune Tuner with 18FM/6AM Presets
- Random Play, Track Repeat, Intro Scan
- Electric Blue LCD Display



CD-R/RW | 2ch Output



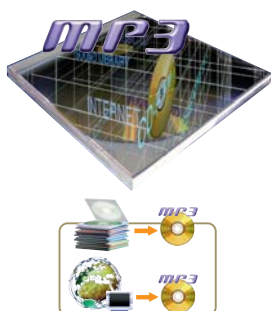
DB125 *NEW*

AM/FM CD PLAYER

- Plays CD-R & CD-RWs
- 2 Channel RCA Line Level Output
- 200-Watt (50W x 4)
- Z-Enhancer
- Magi-Tune Tuner with 18FM/6AM Presets
- Random Play, Track Repeat, Intro Scan
- Electric Blue LCD Display Presets
- Screen Saver
- Magna-Bass
- Aluminum Faceplate

12 Hours of Continuous Music on a Single CD-R/RW is No Longer a Dream

MP3 (abbreviation for MPEG AUDIO LAYER 3) is a file standard that provides high compression of audio data. (MPEG stands for Motion Picture Experts Group.)



Creating MP3 Files

The songs from ten audio CDs can be stored on a single CD-R/RW disc. Use MP3 conversion software (these can be downloaded on the Internet as shareware and freeware) that is installed on your computer to convert the songs on the audio CD to MP3 files. Then, store these files on a CD-R/RW, and then your MP3 file CD is complete. Since the MP3 format compresses data to one-tenth its original size, you can store the music from about ten audio audio CDs on a single CD-RW. Since ten CDs can provide roughly 740 minutes of music, you can enjoy continuous playback for about 12 hours from a single CD-RW.

- Note
- These are estimated times when ten audio audio CDs (650 MB) are encoded as MP3 files and stored on a CD-R/RW (650 MB).
 - When writing an MP3 file to the CD-R/RW drive, set the recording format for the writing software to ISO9660 Level 1 or Level 2 (not including the extended format).
 - Up to 16 characters can be displayed for the folder name and file name (not including the extension). The folder name and file name more than 16 characters may not be displayed correctly for MP3 discs. Also, ID3-Tag is not supported.

M-BASS

Magna Bass

Boosts the bass range in the vicinity of 60 Hz by nearly 10 dB, so the bass comes through loud and clear even if you're listening at low volume.



ADZ625 *NEW*

2 DIN AM/FM CD/CASSETTE PLAYER W/CD CHANGER CONTROLLER

- Plays CD-R
- Full Logic Cassette w/ Auto Reverse
- Dolby B
- CeNET Controls Optional 6 Disc CD changer Multi-Changer Control
- CD Tiltting, Station Tiltting
- Built-in DSP Sound Field & EQ
- 4 Channel RCA Line Level Output
- IR Remote Control
- 200-Watt (50W x 4)
- Magi-Tune Tuner with 18FM/6AM Presets



DCZ625

6 DISC CD CHANGER FOR CeNET

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



DC625

6 DISC CHANGER FOR C-BUS

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



XA311

AM/FM CASSETTE PLAYER W/CD CHANGER CONTROLLER

- Z-Enhancer EQ Selector
- Rotary Volume Control
- Green LCD Display
- C-BUS Changer Control
- 160 Watt (40W x 4)
- Auto Reverse
- Magi-Tune Tuner with 18FM/6 AM Presets



FMC250

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



FM Modulator

Steering Remote Control

Clarion's steering remote controller can control your car entertainment system for added safety and easy operation. When this remote control (sold separately) is mounted, you can operate your car entertainment system safely and comfortably.



RCB-147-600

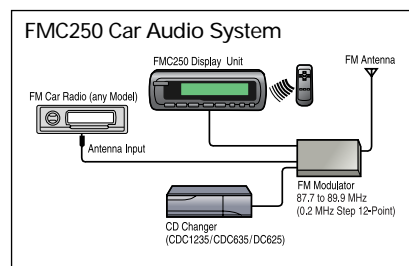
Steering Remote Control

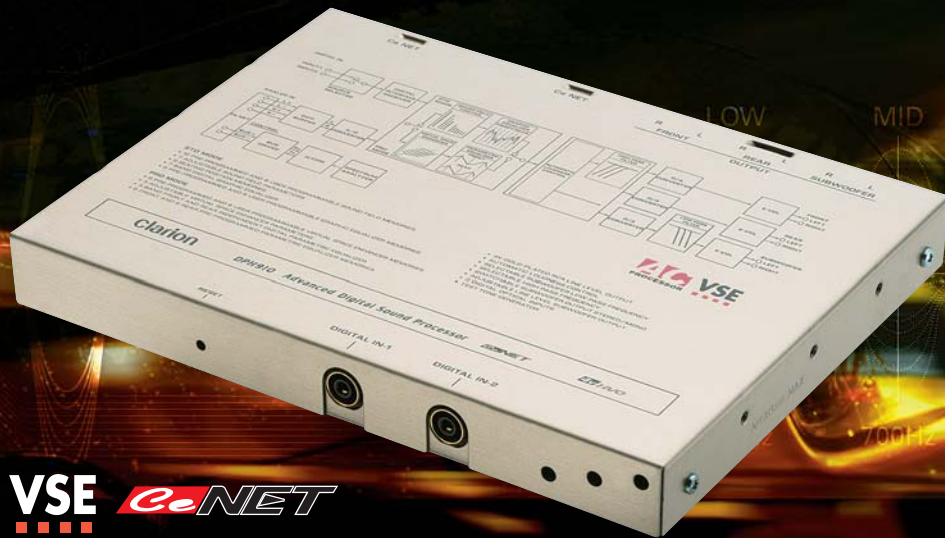
For VRX925VD, VRX815, VRX610, DXZ925, DXZ825, DXZ725, DXZ525, DX425, DB325, ADZ625.



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.





DPH910

DIGITAL GRAPHIC & PARAMETRIC EQUALIZER/DSP/CROSSOVER PROCESSOR

STD Mode

- 12 Pre-Programmed and 6 User-Programmed Sound Field Memories
- 7 Adjustable Sound Field Parameters
- 5 Seating Position Memories
- 7-Band Digital Graphic Equalizer
- 6 Pre-Programmed and 6 User-Programmed Graphic Equalizer Memories

Pro Mode

- 6 Pre-Programmed and 6 User-Programmed Virtual Space Enhancer Memories
- 3 Adjustable Virtual Space Enhancer Parameters
- 3-Band, Front and Rear, Independent Digital Parametric Equalizer
- 6 Front and 6 Rear Pre-Programmed Parametric Equalizer Memories

All Modes

- Switchable Subwoofer Output (Stereo/Mono) and Adjustable Line Level Subwoofer Output
- Selectable Subwoofer: Low/High Pass Frequencies
- 4 V/6-Channel Gold-Plated RCA Output and 2 Digital Fiber Optic Inputs

AC PROCESSOR (Audio Co-Processor)

One major feature of this AC processor is the use of 3D enhanced technology. This technology uses precise control of the frequencies, phases, standing waves, and reverberations to position the sound image as coming from the front of the vehicle, creating a 3D sound field with significantly improved width and depth. The AC processor creates a realistic 3D sound field located in front of each listener no matter whether he or she is sitting in the driver's seat or passenger seat so that each passenger can fully enjoy the sensation of a front-row seat at a live performance.

The AC processor features a Pro Mode for users who are particular about their sound settings and Std Mode for allowing users to easily recreate a high-quality sound space. Pro and Std modes allow you to create a sound field from either the Virtual Space Enhancer (VSE) or for the Digital Sound Field (DSF) and select the parametric equalizer and graphic equalizer for making your favourite settings for enjoying your music.

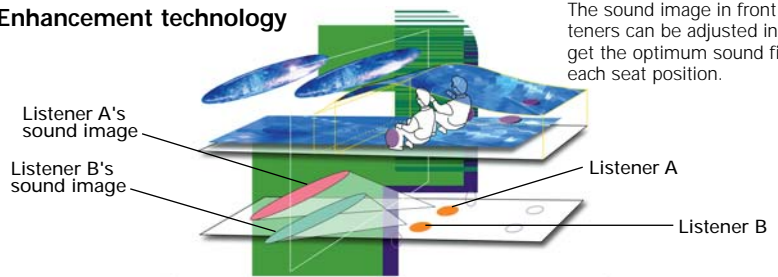
• Digital Sound Field (DSF)

The DSF is activated when Std Mode is selected. Clarion's new DSP chip developed with digital technology is used to create the illusion of a performance at a live house, concert hall, or other venue within your car.

• Virtual Space Enhancer (VSE)

The VSE can be set when Pro Mode is selected. It has been extremely difficult to produce the optimum sound field for each seat position. The VSE is able to direct in front to the listeners within the limited space of a car.

3D Enhancement technology



The sound image in front of the listeners can be adjusted in order to get the optimum sound field for each seat position.

DSF functions

- EFFECT:** Adjusts the percentage of reflected sound.
- INITIAL DELAY:** Adjusts the distance between sound source and reflecting surfaces.
- REAR MIX:** Adjusts the ratio of the direct sound output from the rear speaker.
- REVERB TIME:** Adjusts reverberation length.
- ROOM SIZE:** Adjusts expansion.
- HIGH:** Adjusts the percentage of high frequencies in reverberations.
- LIVENESS:** Adjusts the room's dynamic atmosphere.

Initial setting		DSF parameter						
Sound field	EFFECT	INITIAL DELAY	REAR MIX	ROOM SIZE	LIVENESS	REVERB TIME	HIGH	
BASIC 1	1. HALL	50 %	50 ms	100 %		2.5 s	0.5	
	2. CHURCH	50 %	95 ms	100 %		9.5 s	0.5	
	3. STADIUM	50 %	85 ms	100 %	2.0	5		
	4. LIVEHOUSE	50 %	20 ms	100 %	2.0	5		
	5. CLUB	50 %	3 ms	100 %	2.0	5		
	6. JAZZCLUB	50 %	1 ms	100 %	2.0	5		
BASIC 2	1. DOME	50 %	62 ms	100 %		7.0 s	0.5	
	2. CHAMBER	50 %	100 ms	100 %		4.2 s	0.5	
	3. PARK	50 %	1 ms	100 %	2.0	5		
	4. THEATER	50 %	1 ms	100 %	2.0	5		
	5. STUDIO	50 %	1 ms	100 %	2.0	5		
	6. B.G.M.	100 %						
Adjustment range		0 to 100 %	0 to 100 ms	0 to 100 %	0.1 to 4	0.1 to 10	0.3 to 10 s	0.1 to 1 %

* The settings for the basic DSF menus and the adjustment ranges are shown in the above table.



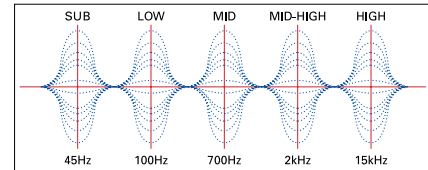
EQS560

1/2 DIN GRAPHIC EQUALIZER/CROSSOVER

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

5-Band Graphic Equalizer for Easy Creation of Your Preferable Sound

EQS560 is 5-Band Graphic Equalizer to make level adjustment under 45Hz ~ 15kHz by 5 frequency point. The EQS560 is used to make adjustments on frequency peaks and dips caused by car cabin size, seat shape/material, or by other vehicle factors. Moreover, you can tune the audio frequency point and level to strengthen or reduce specific frequency point and create your own preferred sound. With the AUX input, you can make the same effect on not only the audio head unit, but also on other sound applications such as a portable DVD, VCD or VCR. The 7V RCA output gives you a high signal-to-noise ratio to drive your audio system to full power.



MCD360

3 WAY ELECTRONIC CROSSOVER

- 18dB/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



BCX100

SONIC BASS ENHANCER WITH REMOTE BASS CONTROL

- Selectable Crossover Frequency 70, 90, or 120Hz
- Remote In and Out
- Wired Remote Control
- Subsonic Filter

For 2002, Clarion introduces a unique new amplifier design.

Clarion's Power System amplifiers are designed and engineered in the United States, and utilize state-of-the-art circuitry in the amplifier power circuits and crossovers to give excellent sound quality and brute power delivery. This dynamic sound is needed for true multi-channel surround sound reproduction for today's in-car DVD based audio/video systems.

For 2002, Clarion introduces a unique new amplifier heatsink design. It is a three piece heatsink consisting of the main heatsink, two side heatsinks, and two removable mesh grills for added thermal dissipation. The two side heatsinks are removable, and can be painted any color for custom installations. The mesh grills are also removable and can be painted a contrasting color for a truly unique look that is unmatched in the industry. The new heatsink design aids in removing heat from the amplifier main board to ensure rated power output over long periods of time without shutdown.

All Power System amplifiers have built-in variable electronic crossovers for system design flexibility. They use MOSFET power transistors in their power supplies for high efficiency and low heat radiation. All of this technology adds up to an amplifier with sound and power that matches its cool new look.



The DPX1001.2 Digital Amplifier

For years, Class A and Class AB amplifiers have dominated the marketplace, but Digital Amplifiers have gained market share in the past few years. Digital technologies allow high power output in smaller chassis that are not as expensive as conventional amplifiers. Class D and Class T amplifiers use this technology but the main difference is that Class T amplifiers offer high signal fidelity for better sound quality. The DPX1001.2 Digital Amplifier utilizes Class T technology.

Class T provides power efficiencies of 80-90% that benefit consumers in many ways. This high efficiency provides more power output in a smaller package with less required input current. Heat dissipation is held down to a minimum, requiring a smaller amplifier package size and smaller heatsink surface area.

Because Class T digital amplifiers can run full frequency, they can be used in more applications, not just as a subwoofer amplifier.

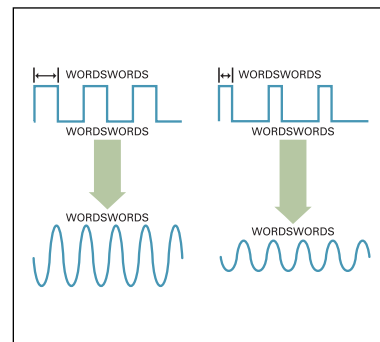


A pulse-width regulated MOSFET power supply is more efficient, generates less heat, and results in a smaller amplifier size

Pulse-width regulation adjusts the width of the power supply's switching pulses to serve constantly changing audio power needs. When music dynamics increase, or the volume is raised, the pulses stay on longer to charge the power supply capacitors across the dc rails in the power supply. By using this type of power supply, Clarion can build a smaller amplifier that generates less heat and is more efficient. The amplifier will sound much cleaner, with better bass and transient response.

Power Systems Amplifiers unique circuitry

Clarion's Power System amplifiers contain unique circuitry in both the input and output sections for noise suppression, fast transient response, and minimum distortion. This includes high-impedance differential input stages, global feedback, and premium devices with very high slew rates. High-impedance differential input stages separate the input signal ground from the common chassis ground. This creates a very effective groundloop isolation circuit that reduces the possibility of charging system noise from entering the signal path.



2 Ohm Stability

With this design, Power System amplifiers can drive lower impedance loads for increased power and can be bridged for mono operation across a 4-ohm load. All Clarion amplifiers are designed to run at 2-ohm loads with increased power and reliability. Two-ohm stability allows the amplifier to run multiple speakers in more complex systems. As a direct result, the amplifier can provide 150 percent more power in 2-ohm stereo, or more than 300 percent in 4-ohm bridged mono.

Power Series Amplifiers built-in electronic crossovers and Bass Extender

All Clarion Power System amplifiers have a variable electronic crossover built-in. This allows for flexible system configuration, as a 4 channel amplifier can power both full range speakers and subwoofers without an external passive crossover. This results in more efficient transfer of power to the speakers with less phase shift of higher frequencies.

The low pass crossover is adjustable from 55-550Hz with a 12dB/oct. slope for subwoofer use, and the high frequency crossover is variable from 55Hz-5.5kHz, also with a 12dB/oct. slope.

The Bass Extender control allows up to 15dB of boost at 45Hz to fine tune the bass response of your subwoofer system to the vehicle's interior and blend it with the rest of the speakers for a smooth transition from subwoofer to midrange frequencies

Other Features:

All Power Series amplifiers feature:

- Adjustable line level inputs with an input sensitivity of 250mv-5V.
- Speaker level inputs to allow easy interface with factory car radios.
- Automatic bridging capability
- Mixed Mode operation
- Double-sided glass epoxy circuit boards

For 2002, Clarion introduces a unique new amplifier heatsink.



Class-T
Digital Power Amplifier

max.
1000W
HIGH-POWER AMPLIFIER

DPX1001.2 **new**

2/1 CHANNEL DIGITAL AMPLIFIER

- NEW Heat Sink Design
- Maximum Power Output 1000W
- Continuous Average Power Output 300W (150W x 2 into 4 Ohms 20Hz-20kHz @0.05% THD)
- Typical 2-Ohm Stereo 300W x 2 @ 0.5% THD
- Typical 1-Ohm Stereo 500W x 2 @ 0.8% THD
- Typical Bridged Power 1kHz 1000W @ 1.0% THD
- Bass Extender Control 0-18dB @ 45Hz
- Adjustable 55Hz-5.5kHz, 12/24dB/oct. Low Pass Crossover
- Subsonic Filter
- Remote Level Control Included
- Mixed-Mode Operation
- Bridgeable 2/1 Channel Operation
- Speaker Level Inputs
- 4 Layered Glass Epoxy Circuit Board



High-Quality, High-Efficiency Class-T Digital High-Power amplifier

Clarion's DPX1001.2 incorporates a new amplification circuit, which is developed with the latest digital processing technology and high-capacity power supply circuit of MOSFET technology. These technologies deliver high-power superior sound with low-harmonic and inter-modulated distortion, and high signal-to-noise ratio. The ultimate high performance amplifier system, DPX1001.2 has full capability to drive a dynamic, rich and subtle sound in DVD, CD, MD or other digital sources that comply to the highest standard.

New Algorithms for Low-Distortion and Low-Noise

DPX1001.2 has a new algorithm of the Class-T system developed with a high-speed digital encoding and decoding system giving you low-distortion and low-noise in full frequency range.

High-Efficiency Power Amplifier Circuit for Dynamic Output

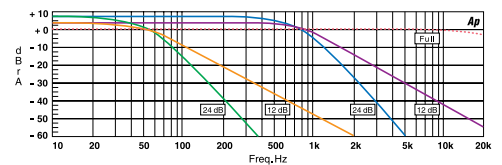
The ultra high power-efficiency and low-power loss in the circuitry of the DPX1001.2 delivers full high-power output and drives the speaker with full dynamic impact.

Minimum Heat Generation

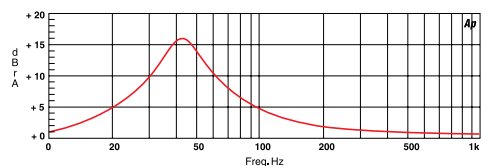
High-power amplifiers usually have a huge heat-sink to radiate heat caused by the internal power transistors. The DPX1001.2 has exclusive circuitry designed with low heat output transistor capacity, effectively minimizing these heat emitting conditions. This has created a compact exterior design that enables multiple installation locations.



Crossover lowpass



Bass boost response



APX201.2 *NEW*

2/1 CHANNEL POWER AMPLIFIER

- NEW Heat Sink Design
- Maximum Power Output 200W
- Continuous Average Power Output 100W (50W x 2 into 4 Ohms 20Hz-20kHz @0.05% THD)
- Typical 2-Ohm Stereo 110W x 2 @ 0.5% THD
- Typical Bridged Power 1kHz 230W @ 0.5% THD
- Bass Extender Control 0~18dB @ 45Hz
- Adjustable 55Hz-5.5kHz, 12dB/oct. High/Low Pass Crossover
- Mixed-Mode Operation
- Bridgeable 2/1 Channel Operation
- Speaker Level Inputs
- Double-Sided Glass Epoxy Circuit Board

max.
200 W
HIGH-POWER AMPLIFIER



max.
400 W
HIGH-POWER AMPLIFIER

APX401.2 *NEW*

2/1 CHANNEL POWER AMPLIFIER

- NEW Heat Sink Design
- Maximum Power Output 400W
- Continuous Average Power Output 200W (100W x 2 into 4 Ohms 20Hz-20kHz @0.05% THD)
- Typical 2-Ohm Stereo 190W x 2 @ 0.5% THD
- Typical Bridged Power 1kHz 380W @ 0.5% THD
- Bass Extender Control 0~18dB @ 45Hz
- Adjustable 55Hz-5.5kHz, 12dB/oct. High/Low Pass Crossover
- Mixed-Mode Operation
- Bridgeable 2/1 Channel Operation
- Speaker Level Inputs
- Double-Sided Glass Epoxy Circuit Board

APX401.4 *NEW*

4/3/2 CHANNEL POWER AMPLIFIER

- NEW Heat Sink Design
- Maximum Power Output 400W
- Continuous Average Power Output 200W (50W x 4 into 4 Ohms 20Hz-20kHz @0.05% THD)
- Typical 2-Ohm Stereo 90W x 4 @ 0.5% THD
- Typical Bridged Power 1kHz 190W x 2 @ 0.5% THD
- Bass Extender Control 0~18dB @ 45Hz
- Adjustable 55Hz-5.5kHz, 12dB/oct. High/Low Pass Crossover
- Mixed-Mode Operation
- Bridgeable 4/3/2 Channel Operation
- Speaker Level Inputs
- Double-Sided Glass Epoxy Circuit Board

max.
400 W
HIGH-POWER AMPLIFIER



Gold-Plated RCA Connectors



Superior conductivity is achieved by using gold plating in the signal system to minimize the contact resistance and reduce noise. Moreover, since non-magnetic gold is not affected by external magnetic fields, magnetic distortion is also prevented.

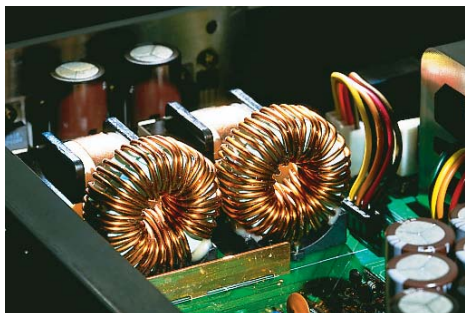
Gold-Plated Block Terminals



Gold-plated block terminals are used in the power supply terminals and speaker terminals. Gold can be made with extremely low electrical resistance and low contact resistance for preventing voltage drops, noise, heating, and other problems from occurring.

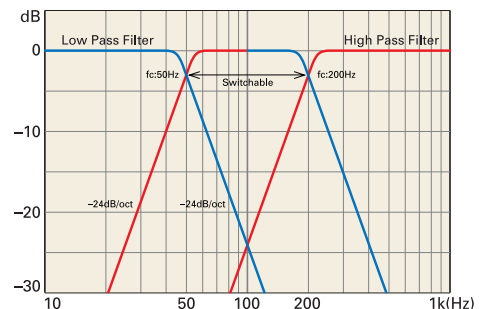
Toroidal Choke Coils

Toroidal choke coils are used in the power supply circuitry. Because these coils are resistant to the magnetic noise and have a low DC resistance, they contribute to a high-efficiency, low-noise power supply.



Variable High/Low-Pass Filter

All Power System amplifiers have built-in low-pass and high-pass filters (12/24 dB/oct.) allowing adjustment in the 50 to 200 Hz frequency range over all four channels so that a multi-amplifier and sub-wwoofer system can be configured with ease.



POWER SYSTEM SPEAKERS

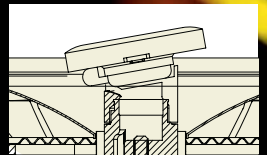


Clarion's Power System speaker line-up is new from the ground up for 2002.

Clarion's Power System speaker line-up is new from the ground up for 2002. Common cosmetic and performance elements from the Power System amplifiers carry over to the Power System speakers, making them potent performers for multichannel surround sound systems.

The new technologies are reflected in these speakers; corrosion-resistant powder coated materials to withstand the tough environment found in the car, silver coated speaker baskets and grills, silver plated MIPP cone material, special midrange PIE cones with strontium ferrite magnets for smooth midrange response, and other construction parameters to ensure long life, good looks and sonic excellence.

Clarion's Power System coaxial speakers incorporate the new "Gyro Imaging" Pivot Tweeter. This technology features an angle-mounted pivoting tweeter assembly. The "Gyro Imaging" design provides optimum stereo imaging and staging by allowing the user to precisely position the tweeter. When Power System Coaxials are mounted in factory speaker locations, the pivoting tweeter provides excellent off axis response.



The Power System Silver Plated MIPP cones are made of high quality Mica Injected Polypropylene, and plated with a silver metallic compound. This construction technique offers a more accurate mid-bass and smooth midrange response. The extremely lightweight yet stiff cone construction delivers both high efficiency with low distortion for true musical accuracy.

Kapton is used for the multi-layer voice coil formers in all Power System speakers. This material has light weight for superior transient response, and the ability with the ability to withstand high amounts of heat. This prevents voice coil meltdown and speaker failure, and increases the speakers power handling and efficiency.

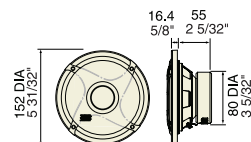
Clarion's Power System separates use a 3/4" Silk Dome Tweeters for superb sound dispersion and ultra-smooth high frequency response. The Neodymium magnet provides improved efficiency and extended high frequency response.

Power System Rubber Surrounds on all woofer cones have superior sound quality attributes and results in a lightweight and flexible surround. This material allows greater compliance and better durability for a high quality speaker with a smooth and natural frequency response helps lower cone resonance distortion.

SRS1384 160W *new*

POWER SERIES 5 1/4" WOOFER AND 3/4" TWEETER WITH CROSSOVER NETWORK

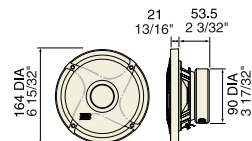
- 5 1/4" Mica Injected Metal Coated Polypropylene Woofer
- Heat-Resistant Kapton Voice Coil
- Rubber Surround
- Strontium Magnet
- 3/4" Silk Soft Dome Tweeter w/Neodymium Magnet
- 2-Way Mounting (Surface/Flush)
- 2-Way 12dB/oct. Passive Crossover
- 160 Watt Maximum Music Power



SRS1684 200W *new*

POWER SERIES 6 1/2" WOOFER AND 3/4" TWEETER WITH CROSSOVER NETWORK

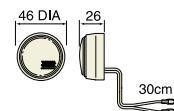
- 6 1/2" Mica Injected Metal Coated Polypropylene Woofer
- Heat-Resistant Kapton Voice Coil
- Rubber Surround
- Strontium Magnet
- 3/4" Silk Soft Dome Tweeter w/Neodymium Magnet
- 2-Way Mounting (Surface/Flush)
- 2-Way 12dB/oct. Passive Crossover
- 200 Watt Maximum Music Power



SRH284 120W *new*

POWER SERIES 1" SILK SOFT DOME TWEETER

- Silk Dome Tweeter
- Neodymium Magnet
- 2-Way Mounting (Surface/ Flush)
- Inline 6dB/oct. Crossover
- Tweeter Protection
- 120 Watts Maximum Music Power



Fully-Featured 2-way Crossover Network at -12 dB/oct.



Crossover network performance affects the characteristics of a multiway speaker system. Clarion's crossover networks use carefully selected coils and capacitors with high Q to realize slope characteristics of -12 dB/oct. and low loss. The combination of the sharpness with slope characteristics of -12 dB/oct. and the superior phase characteristics results in a

natural sound with a smooth transition between the woofers and tweeters. The system also incorporates a tweeter level attenuator so that you can adjust the tweeters to the desired level for maximum listening pleasure.

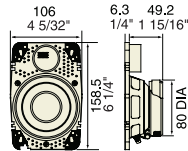
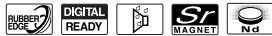
Power System Speakers



SRC4694 130W *NEW*

POWER SYSTEM 4" X 6" 2 WAY PLATE SPEAKER

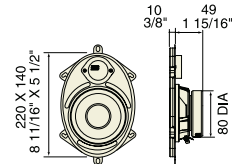
- 4" Metal Coated Mica Injected Polypropylene Woofer
- Heat-Resistant Kapton Voice Coil
- Rubber Surround
- Strontium Magnet
- 1/2" Balanced Drive PEI Tweeter w/Neodymium Magnet
- 130 Watt Maximum Music Power



SRC5794 130W *NEW*

POWER SYSTEM 5" X 7" 2-WAY PLATE SPEAKER

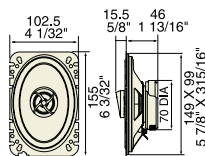
- 5" Metal Coated Mica Injected Polypropylene Woofer
- Heat-Resistant Kapton Voice Coil
- Rubber Surround
- Strontium Magnet
- 1/2" Balanced Drive PEI Tweeter w/Neodymium Magnet
- 130 Watt Maximum Music Power



SRC4684 100W *NEW*

POWER SYSTEM 4" X 6" COAXIAL SPEAKER

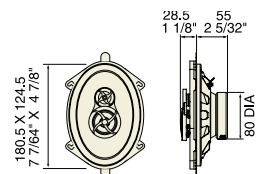
- 4" x 6" Metal Coated Mica Injected Polypropylene Woofer
- "Gyro Imaging" Angled Pivoting Tweeter
- Rubber Surround
- Strontium Magnet
- 1/2" Balanced Drive PEI Tweeter w/Neodymium Magnet
- Heat-Resistant Kapton Voice Coil
- 100 Watt Maximum Music Power



SRC5784 140W *NEW*

POWER SYSTEM 5" X 7" 3-WAY SPEAKER

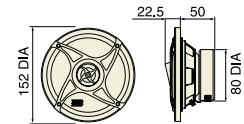
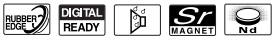
- 5" x 7" Metal Coated Mica Injected Polypropylene Woofer
- Heat-Resistant Kapton Voice Coil
- Rubber Surround
- Strontium Magnet
- 2" PEI Cone Mid Range
- 1/2" Balanced Drive PEI Tweeter w/Neodymium Magnet
- 140 Watt Maximum Music Power



SRR1384 120W *NEW*

POWER SYSTEM 5 1/4" COAXIAL SPEAKER

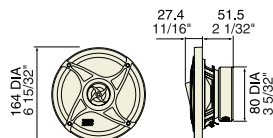
- 5 1/4" Metal Coated Mica Injected Polypropylene Woofer
- "Gyro Imaging" Angled Pivoting Tweeter
- Heat-Resistant Kapton Voice Coil
- Rubber Surround
- Strontium Magnet
- 1/2" Balanced Drive PEI Tweeter w/Neodymium Magnet
- 120 Watt Maximum Music Power



SRR1684 160W *NEW*

POWER SYSTEM 6 1/2" COAXIAL SPEAKER

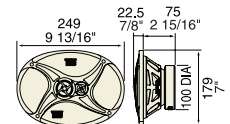
- 6 1/2" Metal Coated Mica Injected Polypropylene Woofer
- "Gyro Imaging" Angled Pivoting Tweeter
- Strontium Magnet
- 1/2" Balanced Drive PEI Tweeter w/Neodymium Magnet
- Built-in GM 6.5" Adapter
- Heat-Resistant Kapton Voice Coil
- 160 Watt Maximum Music Power



SRR6984 200W *NEW*

POWER SYSTEM 6" X 9" 3-WAY SPEAKER

- 6" x 9" Metal Coated Mica Injected Polypropylene Woofer
- Heat-Resistant Kapton Voice Coil
- Rubber Surround
- Strontium Magnet
- 2" PEI Cone Mid Range
- 1/2" Balanced Drive PEI Tweeter w/Neodymium Magnet
- 200 Watt Maximum Music Power





Power System Subwoofers

Clarion's Power System Subwoofers are designed to handle large amounts of power for groundpounding bass. It's just what the doctor ordered for 5.1 channel surround low frequency sound reproduction.

Power System subwoofers have strong stamped steel frames for added stiffness of the driver, and to prevent frame warping when mounting the speaker in its enclosure. The polypropylene cones are plated with titanium for low mass and ultra strong cone structure to eliminate cone flexing and lower cone distortion. The cone is supported by a special rubber surround that resists reduced compliance at lower temperatures. This prevents degraded speaker performance in cold climates.

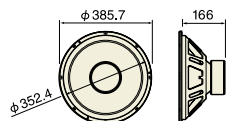
Kapton voice coils are used for added heat resistance and rigidity of the voice coil structure, and the motor assembly uses a large strontium magnet with a bumped and vented pole piece for improved efficiency and performance. Vented pole piece assemblies allow the subwoofers to handle more power by increasing the cooling air movement through the voice coil.

And of course, the Power Systems subwoofers reflect the family cosmetics of the entire Power System series of components.

SRW3881 600W

15" DUAL VOICE COIL SUBWOOFER

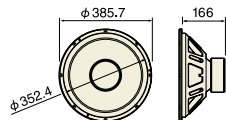
- Polypropylene Woofer Cone w/Titanium Deposition Coating
- Dual 4 Ohm Voice Coil
- Stamped Steel Frame
- Heat Resistant Voice Coil
- Kapton Bobbin
- Rear-Vented Pole Piece
- Rubber Surround
- Inverted Dust Cap
- Large Strontium Ferrite Magnet
- 600 Watt Maximum Music Power



SRW3841 600W

15" SINGLE VOICE COIL SUBWOOFER

- Polypropylene Woofer Cone w/Titanium Deposition Coating
- Single 4 Ohm Voice Coil
- Stamped Steel Frame
- Heat Resistant Voice Coil
- Kapton Bobbin
- Rear-Vented Pole Piece
- Rubber Surround
- Inverted Dust Cap
- Large Strontium Ferrite Magnet
- 600 Watt Maximum Music Power



Subwoofer System for Powerful, Booming Bass



Playback of low frequency sounds is an essential component of car entertainment systems. By simply configuring your subwoofer system using Clarion's subwoofer and high-power amplifiers, you can experience playback of bass with added impact. The subwoofer has been designed for high input with its titanium polypropylene cone and large strontium-ferrite magnets. Clarion's high-output power amplifiers incorporate a built-in High/Low Pass Crossover unit with steep crossover slopes so that you can easily set up a high-performance subwoofer system.

Titanium-Coated Polypropylene Cone

Clarion's high rigidity, lightweight polypropylene cone uses a titanium coating that has an internal stiffness that is ideal for woofers. The combined effect of the high-molecular polypropylene and state-of-the-art titanium allow high input power with dynamic impact and low distortion.

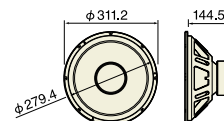
POWER SYSTEM SUBWOOFERS



SRW3081 500W

12" DUAL VOICE COIL SUBWOOFER

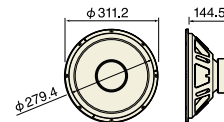
- Polypropylene Woofer Cone w/Titanium Deposition Coating
- Dual 4 Ohm Voice Coil
- Stamped Steel Frame
- Heat Resistant Voice Coil
- Kapton Bobbin
- Rear-Vented Pole Piece
- Rubber Surround
- Inverted Dust Cap
- Large Strontium Ferrite Magnet
- 500 Watt Maximum Music Power



SRW3041 500W

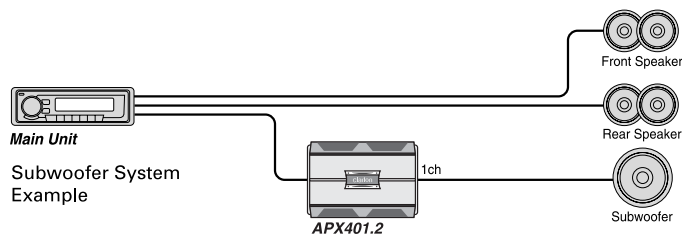
12" SINGLE VOICE COIL SUBWOOFER

- Polypropylene Woofer Cone w/Titanium Deposition Coating
- Single 4 Ohm Voice Coil
- Stamped Steel Frame
- Heat Resistant Voice Coil
- Kapton Bobbin
- Rear-Vented Pole Piece
- Rubber Surround
- Inverted Dust Cap
- Large Strontium Ferrite Magnet
- 500 Watt Maximum Music Power



Dual 4-Ohm Voice Coil

Clarion's woofers use 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 and prevent variation in the woofers impedance to eliminate distortion. Also, the extremely high magnetic efficiency of the dual voice coil type woofers allows powerful magnet operation for producing a woofer that is efficient, powerful, and has high sensitivity. Dual voice coils enable a single woofer to present a 2 ohm load to an amplifier, so that a single woofer utilizes maximum 2 ohm output power from the amplifier



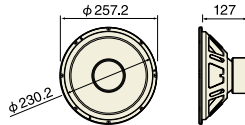
POWER SYSTEM SUBWOOFERS



SRW2581 400W

10" DUAL VOICE COIL SUBWOOFER

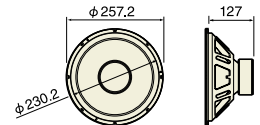
- Polypropylene Woofer Cone w/Titanium Deposition Coating
- Dual 4 Ohm Voice Coil
- Stamped Steel Frame
- Heat Resistant Voice Coil
- Kapton Bobbin
- Rear-Vented Pole Piece
- Rubber Surround
- Inverted Dust Cap
- Large Strontium Ferrite Magnet
- 400 Watt Maximum Music Power



SRW2541 400W

10" SINGLE VOICE COIL SUBWOOFER

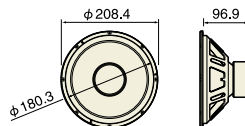
- Polypropylene Woofer Cone w/Titanium Deposition Coating
- Single 4 Ohm Voice Coil
- Stamped Steel Frame
- Heat Resistant Voice Coil
- Kapton Bobbin
- Rear-Vented Pole Piece
- Rubber Surround
- Inverted Dust Cap
- Large Strontium Ferrite Magnet
- 400 Watt Maximum Music Power



SRW2081 300W

8" DUAL VOICE COIL SUBWOOFER

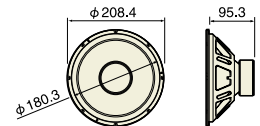
- Polypropylene Woofer Cone w/Titanium Deposition Coating
- Dual 4 Ohm Voice Coil
- Stamped Steel Frame
- Heat Resistant Voice Coil
- Kapton Bobbin
- Rear-Vented Pole Piece
- Rubber Surround
- Inverted Dust Cap
- Large Strontium Ferrite Magnet
- 300 Watt Maximum Music Power



SRW2041 300W

8" Single VOICE COIL SUBWOOFER

- Polypropylene Woofer Cone w/Titanium Deposition Coating
- Single 4 Ohm Voice Coil
- Stamped Steel Frame
- Heat Resistant Voice Coil
- Kapton Bobbin
- Rear-Vented Pole Piece
- Rubber Surround
- Inverted Dust Cap
- Large Strontium Ferrite Magnet
- 300 Watt Maximum Music Power



PHAZE 1 SPEAKERS

The Phaze 1 speaker lineup for 2002 continues Clarion's quest for the best sounding speaker in factory replacement applications.

Phaze 1 cone construction is similar to that of the Power System speakers in the use of MIPP, Mica Injected Polypropylene cones for similar sound quality, but without the metal plating. Tweeters are balanced dome PEI (Polyether Imide) design for superior high frequency sound reproduction and off-axis response when mounted in the factory door speaker location. Neodymium magnets are used on the tweeters for high efficiency, small size and increased imaging accuracy. PEI cones are used for solid midrange reproduction, and all cones in the Phaze 1 lineup are water resistant for long life.

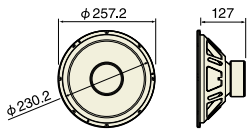
All 6 1/2" Phaze 1 speakers include a GM mounting ring adapter for perfect fit into any GM or Chrysler stock 6 1/2" mount.



SRS1324 170W *NEW*

PHAZE 1 5 1/4" SEPARATE SPEAKER WITH PEI TWEETER

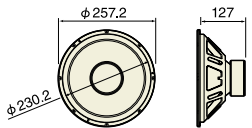
- Mica-Injected Polypropylene Woofer Cone
- 1" Balanced Drive PEI Tweeter w/Strontium Magnet
- Heat Resistant Voice Coil
- Strontium Woofer Magnet
- 2-Way Mounting (Surface, Flush)
- Inline Passive 6dB/oct. Passive Crossover
- 170 Watt Maximum Music Power



SRS1624 170W *NEW*

PHAZE 1 6 1/2" SEPARATE SPEAKER WITH PEI TWEETER

- Mica-Injected Polypropylene Woofer Cone
- 1" Balanced Drive PEI Tweeter w/Strontium Magnet
- Heat Resistant Voice Coil
- Strontium Woofer Magnet
- 2-Way Mounting (Surface, Flush)
- Inline Passive 6dB/oct. Passive Crossover
- 170 Watt Maximum Music Power



Change Your Speakers and Bring Your Audio to Life

If you have ever thought of upgrading your pre-installed speakers to enhance your car entertainment experience, Clarion's Phaze 1 speakers may be just what you're looking for. By replacing the speakers that are already mounted in your car, you can enjoy a clearer playback sound with added impact.

Clarion's woofers use water-resistant and UV-resistant Mica Injected polypropylene cones. Tweeters use a balance drive PEI dome with superior high-range frequency characteristics together with metallized PEI midrange cones for exceptional durability, excellent frequency characteristics, and outstanding output sound pressure levels (sensitivity).

Coaxial Speakers



Clarion's new coaxial speakers were developed for integrating the sound sources of the multiway speakers at a single point on the same axis. The speakers have been designed so that the low and midrange sounds from the woofers and the high-range sounds from the tweeter have the phases correctly aligned at the listening position. This allows smooth frequency characteristics over a wide range and precise positioning of the sound field by the superior phase characteristics.

PHAZE 1 SPEAKERS



SRR1026 100W *new*

PHAZE 1 4" COAXIAL SPEAKER

- Mica-Injected Polypropylene Woofer Cone
- 1" Balanced Drive PEI Tweeter w/Neodymium Magnet
- Heat Resistant Voice Coil
- Strontium Woofer Magnet
- 100 Watt Maximum Music Power



SRR1324 120W *new*

PHAZE 1 5 1/4" COAXIAL SPEAKER

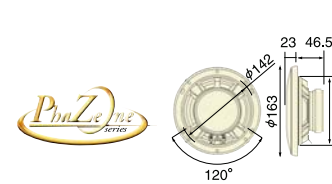
- Mica-Injected Polypropylene Woofer Cone
- 1" Balanced Drive PEI Tweeter w/Neodymium Magnet
- Heat Resistant Voice Coil
- Strontium Woofer Magnet
- 120 Watt Maximum Music Power



SRR1625 120W *new*

PHAZE 1 6 1/2" COAXIAL SPEAKER

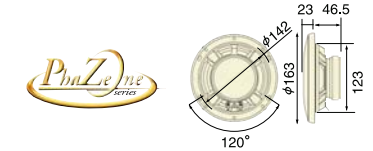
- Mica-Injected Polypropylene Woofer Cone
- 1" Balanced Drive PEI Tweeter w/Neodymium Magnet
- Heat Resistant Voice Coil
- Strontium Woofer Magnet
- 120 Watt Maximum Music Power



SRR1626 160W *new*

PHAZE 1 6 1/2" COAXIAL SPEAKER

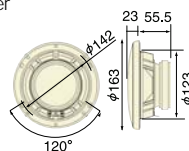
- Mica-Injected Polypropylene Woofer Cone
- 1 3/16" Balanced Drive PEI Tweeter w/Neodymium Magnet
- Heat Resistant Voice Coil
- Strontium Woofer Magnet
- 160 Watt Maximum Music Power



SRR1634 180W *new*

PHAZE 1 6 1/2" 3-WAY SPEAKER

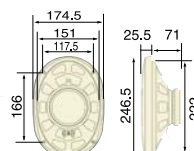
- Mica-Injected Polypropylene Woofer Cone
- 1 3/16" Balanced Drive PEI Midrange w/Neodymium Magnet
- 3/8" Dome Film PEI Tweeter
- Heat Resistant Voice Coil
- Strontium Woofer Magnet
- 180-Watt Maximum Music Power



SRR6924 200W *new*

PHAZE 1 6" X 9" COAXIAL SPEAKER

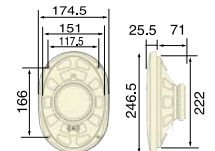
- Polylaminated Woofer Cone
- 2 5/8" PEI Cone Tweeter w/Strontium Magnet
- Heat Resistant Voice Coil
- Strontium Woofer Magnet
- 200-Watt Maximum Music Power



SRR6934 220W *new*

PHAZE 1 6" X 9" 3-WAY SPEAKER

- Polylaminated Woofer Cone
- 2 5/8" PEI Cone Midrange w/Strontium Magnet
- 5/8" PEI Dome PEI Tweeter
- Heat Resistant Voice Coil
- Strontium Woofer Magnet
- 220-Watt Maximum Music Power



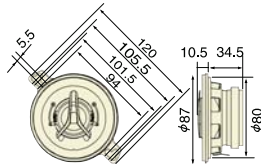


max. **120w**
HIGH-POWER AMPLIFIER

SRC924 60W *NEW*

PHAZE 1 3 1/2" COAXIAL OEM SPEAKER

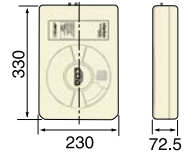
- OEM Replacement
- Mica-Injected Polypropylene Woofer Cone
- 1" Balanced Drive PEI Tweeter w/Neodymium Magnet
- Heat Resistant Voice Coil
- Strontium Woofer Magnet
- 60 Watt Maximum Music Power



SRV303 *NEW*

7" 120W AMPLIFIED SUBWOOFER

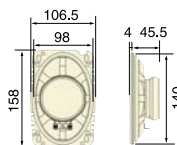
- 120 Watt High Power Amplifier Built-in
- 7" Counter Drive Subwoofer
- Selectable Crossover at 50/75/100/120Hz
- Adjustable Input Gain
- Selectable Phase
- RCA Line Level Input
- Speaker Level Input
- Detachable Control Panel w/5m Extension Cable Included
- Flexible Mounting Capability



SRC4624 100W *NEW*

PHAZE 1 4"X6" COAXIAL OEM REPLACEMENT

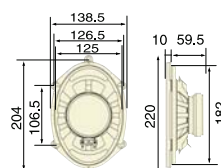
- OEM Replacement
- Mica-Injected Polypropylene Woofer Cone
- 1" Balanced Drive PEI Tweeter w/Neodymium Magnet
- Heat Resistant Voice Coil
- Strontium Woofer Magnet
- 100 Watt Maximum Music Power



SRC5724 140W *NEW*

PHAZE 1 5"X7" COAXIAL OEM REPLACEMENT SPEAKER

- OEM Replacement
- Mica-Injected Polypropylene Woofer Cone
- 1" Balanced Drive PEI Tweeter w/Neodymium Magnet
- Heat Resistant Voice Coil
- Strontium Woofer Magnet
- 140 Watt Maximum Music Power



SRH204 120W *NEW*

PHAZE 1 3/4" PEI TWEETER

- Balanced Drive PEI Dome
- Neodymium Magnet
- Sweet Spot Directional Tweeter
- Inline Passive 6dB/oct. Passive Crossover
- 120 Watt Maximum Music Power





Marine products for the boat market

Clarion rules the OEM market for marine audio. The line of retail products includes 3 source units, 1 CD changer, 1 remote controller, 2 amps, 3 speakers and an 1 amplified subwoofer. These are the ONLY products built specifically and solely for the marine environment.

Because the term "marine" is used so widely (and casually) among mobile electronics manufacturers, Clarion would like to explain what we mean by this term. Our products have been tested to meet or exceed standards CFR 46 for water tightness, ASTM D4329 for UV stability and ASTM B117 for salt/for resistance. Both the XMA1 and XMD1 source units will withstand a 65 gallon per minute stream of water for 5 minutes.

Clarion Marine CD players are designed and built for rugged use on the open water. All Marine source units feature positive LCD illumination to ensure readability in bright sunlight. They also feature triple-coated microprocessors to resist corrosion. All of the Marine source units are designed to accept the M101RC water proof wired remote, for complete system control from anywhere in the boat.

Amplifiers are not usually designed to endure direct exposure to the elements. However, because amplifiers are exposed to high humidity in a marine environment, Clarion takes the added measure of painting the amplifier's aluminum heat sinks and gold-plating its connectors to resist corrosion. This ensures long-term, reliable performance.

Clarion Marine speakers produce stunning sound in an open-air environment. And they keep on performing because they're built to withstand the elements – water, ultraviolet rays, salt and fog. Performance and durability are why Clarion Marine speakers have earned the distinction of being the industry reference.



4ch Output | CD Control

XMDI-RET

AM/FM MARINE CD PLAYER W/CD CHANGER CONTROLLER AND WATER RESISTANT FRONT PANEL

- Exclusive Marined Front Panel
- Water Sealed Media Access Door
- Conformally Coated Microprocessor
- Input for Marine Wired Remote Control
- Z-Enhancer EQ Selector
- 3 Color Display
- C-BUS Changer Control
- 4 Channel RCA Line Level Output
- 180 Watt (45W x 4)
- Magi-Tune Tuner with 18FM/6AM Presets



4ch Output | CD Control

XMAI-RET

AM/FM MARINE CASSETTE W/CD CHANGER CONTROLLER AND WATER RESISTANT FRONT PANEL

- Exclusive Marined Front Panel
- Water Sealed Media Access Door
- Conformally Coated Microprocessor
- Input for Marine Wired Remote Control
- Z-Enhancer EQ Selector
- 3 Color Display
- C-BUS Changer Control
- 4 Channel RCA Line Level Output
- 180 Watt (45W x 4)
- Full Logic Tape transport w/Auto Reverse
- Automatic Program Control (APC)
- Magi-Tune Tuner with 18FM/6AM Presets



DCP | 4ch Output | CD Control

M5675-RET

AM/FM CD PLAYER W/CD CHANGER CONTROLLER

- Conformally Coated Microprocessor
- Z-Enhancer EQ Selector
- Rotary Volume Control
- 3-Color Display
- Detachable Faceplate
- C-BUS Changer Control
- 4 Channel Line Level Output
- 180 Watt (45W x 4)
- Magi-Tune Tuner with 18FM/6AM Presets





C-BUS CD-R

XM665-RET

6 DISC CD CHANGER

- 6 Disc Magazine
- Conformally Coated Microprocessor
- Plays CD-R Discs
- 8X Oversampling Digital Filter
- 3 Beam Laser Tracking System
- 180 Degree Mounting Capability
- Quick Disc-to-Disc Access Time



MIOIRCW-RET

WIRED WATERPROOF REMOTE CONTROL

APX400.4M

4/3/2 CHANNEL POWER AMPLIFIER

- Power System
- Fully Painted Non-Corrosive Heat Sink
- Conformally Coated Circuit Board
- Gold-Plated Corrosion-Resistant Brass Hardware
- Continuous Average Power Output 200W (50W x 4 into 4 Ohms 20Hz-20kHz @ .05% THD)
- Typical 2 Ohm Stereo 90W x 4 @ 0.5% THD
- Typical Bridged Power 1 kHz 190W x 2 @ 0.5% THD
- Bass Extender Control 0-18dB @45Hz
- Adjustable 4-Channel 55Hz-5.5kHz, 12dB/oct. High/Low Pass Crossover
- Mixed-Mode Operation
- Bridgeable 4/3/2 Channel Operation
- Speaker Level Inputs
- Double-Sided Glass Epoxy PC Board

max.
400 W
HIGH-POWER AMPLIFIER



max.
200 W
HIGH-POWER AMPLIFIER

APX200.2M

2/1 CHANNEL POWER AMPLIFIER

- Power System
- Fully Painted Non-Corrosive Heat Sink
- Conformally Coated Circuit Board
- Gold-Plated Corrosion-Resistant Brass Hardware
- Continuous Average Power Output 200W (100W x 2 into 4 Ohms 20Hz-20kHz @ .05% THD)
- Typical 2 Ohm Stereo 190W x 2 @ 0.5% THD
- Typical Bridged Power 1 kHz 380W x 1 @ 0.5% THD
- Bass Extender Control 0-18dB @45Hz
- Adjustable 2-Channel 55Hz-5.5kHz, 12dB/oct. High/Low Pass Crossover
- Mixed-Mode Operation
- Bridgeable 4/3/2 Channel Operation
- Speaker Level Inputs
- Double-Sided Glass Epoxy PC Board



CM1632-RET 100W

6.5" MARINE WATER RESISTANT COMPONENT SPEAKERS

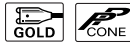
- 6 1/2" Midwoofer with 1 1/2" Tweeter Combo
- Polypropylene Cone
- Santoprene Rubber Surround
- UV Resistant Plastic basket
- Protected Magnet
- UV Resistant High Impact Plastic Grill with Water Drainage Channel
- Rubber Insulated Tinsel Leads
- Gold Plated Speaker Terminals
- Stainless Steel Mounting Hardware
- 3-Way Tweeter Mounting
- UV Resistant Plastic Tweeter Housing
- 100W Maximum Power Handling



CM1622-RET 100W

6.5" MARINE WATER RESISTANT COAXIAL SPEAKERS

- 6 1/2" Woofer
- 3/4" Titanium Dome Tweeter
- Polypropylene Cone
- Santoprene Rubber Surround
- UV Resistant Plastic basket
- Protected Magnet
- UV Resistant High Impact Plastic Grill with Water Drainage Channel
- Rubber Insulated Tinsel Leads
- Gold Plated Speaker Terminals
- Stainless Steel Mounting Hardware



CM2503-RET 300W

10" MARINE WATER RESISTANT SUBWOOFER

- Optimized for Free Air or Enclosed Applications
- 11 1/2" Voice Coil
- Polypropylene Cone
- Santoprene Rubber Surround
- UV Resistant Plastic basket
- Protected Magnet
- UV Resistant High Impact Plastic Grill with Water Drainage Channel
- Rubber Insulated Tinsel Leads
- Gold Plated Speaker Terminals
- Stainless Steel Mounting Hardware
- 300W Maximum Power Handling



SRV303 *new*

7" 120W AMPLIFIED SUBWOOFER

- 120 Watt High Power Amplifier Built-in
- 7" Counter Drive Subwoofer
- Selectable Crossover at 50/75/100/120Hz
- Adjustable Input Gain
- Selectable Phase
- RCA Line Level Input
- Speaker Level Input
- Detachable Control Panel w/5m Extension Cable Included
- Flexible Mounting Capability

Ungo Security offers one of the most exclusive warranties in the industry

Ungo Security Systems for 2002 incorporate the latest technology in the mobile electronics industry, along with durability and reliability. Ungo Security offers one of the most exclusive warranty's in the industry, a limited lifetime warranty on the main unit AND the remote transmitters!*

The MS2007 has some of the most advanced features available in the market today. This unit features a full-featured security system with a remote start, as well as two-way communication from the remote transmitter to the vehicle and vehicle to remote transmitter. This is accomplished using FM frequency transmissions, thus offering extended range for reliable remote starting. The technology did not stop here. Ungo took it up another notch introducing a LCD remote transmitter that offers both audible and visual confirmation of all security and remote start functions. The confirmation can tell you whether your alarm is armed or disarmed, remote started or triggered.

The rest of Ungo's lineup offers technology found in the MS2007. Features like extended range transmitters with rubberized pushbuttons and raised icons molded into the buttons to withstand years of daily usage. The systems are easy to install, easy to use and offer the maximum amount of features for the price. Standard basic features include door lock/unlock, built-in starter interrupt relays, dome light output, parking light flasher, horn honk output, dual zone impact sensors, and a auxilliary output that can be used for remote trunk release. Advanced features on selected models include a second armed output, drivers door priority unlock, a second programmable auxilliary output, extended range antennas, and built-in remote start capabilities.

All in all, Ungo security systems offer the most requested features, ease of use, reliability, and one of the best warranty's available in today's market.

*All remotes except MS2007 Product



MS2007

2-WAY REMOTE START SECURITY SYSTEM

- 1- 4 Button LCD FM Remote Transceiver
- 2-Way FM Communications
- On Board Relays for Start, Ignition 1, Ignition 2, Accessory, and Parking Lights
- Extended Range Antenna
- Dual Zone Impact Sensor
- 2-Way Communication With Visual and Audible Confirmation on Transmitter
- Dome Light Supervision Output
- Negative Door Lock Output
- Stop-n-Go
- Cold Start
- Limited Lifetime Warranty

MS2005

REMOTE START SECURITY SYSTEM

- Two 4 Button Remote Transmitters Featuring Lock/Unlock/Trunk/Start Icons
- On Board Relays for Start, Ignition 1, Ignition 2, Accessory, and Parking Lights
- Extended Range Antenna
- Dual Zone Impact Sensor
- Stop and Go Feature
- Dome Light Supervision Output
- Positive and Negative Door Lock Output
- Cold Start
- Limited Lifetime Warranty

MS2004

4 BUTTON REMOTE SECURITY SYSTEM

- Two 4 Button Remote Transmitters Featuring Lock/Unlock/Trunk/Auxiliary Icons
- On Board Relays for Starter Disable, Lock, Unlock, and Parking Lights
- Extended Range Antenna
- Dual Zone Impact Sensor
- Coded Override
- Selectable Armed Output
- Driver's Door Priority
- Programmable Auxiliary Output
- Dome Light Supervision Output
- Horn Honk Output
- Limited Lifetime Warranty



MS2000

3 BUTTON REMOTE SECURITY SYSTEM

- Two 3 Button Remote Transmitters Featuring Lock/Unlock/Trunk Icons
- On Board Relays for Starter Disable and Parking Lights
- Dual Zone Impact Sensor
- Positive and Negative Door Lock Output
- Drivers Door Priority
- Dome Light Supervision Output
- Horn Honk Output
- Auxiliary Output
- Limited Lifetime warranty

RS151

REMOTE START/ KEYLESS ENTRY SYSTEM

- Two 4 Button Remote Transmitters Featuring Lock/Unlock/Trunk/Start Icons
- On Board Relays for Start, Ignition 1, Ignition 2, Accessory, and Parking Lights
- OEM Mode
- Extended Range Antenna
- Dome Light Output
- Stop-n-Go
- Cold Start
- Limited Lifetime Warranty

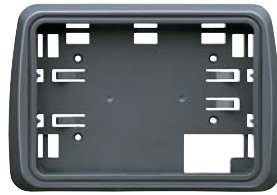
KE106

KEYLESS ENTRY SYSTEM

- Two 3 Button Remote Transmitters Featuring Lock/Unlock/Trunk Icons
- On Board Relays for Starter Disable and Parking Lights
- Driver Door Priority
- Armed Output
- Dome Light Supervision Output
- Horn Honk Output
- Programmable Auxiliary Output
- Limited Lifetime warranty



WH100/WH200/WH105
IR WIRELESS HEADPHONE SYSTEMS (WH105 Headphones are RF Wireless)



HRM150
HEADREST MOUNTING BEZEL FOR VMA7191, VMA6491 AND VMA6492
•Includes One Straight and One Angled Trim Ring



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



FM200
FM MODULATOR
•2 Channel RCA Audio Input
•On/Off Switch
•Volume Level Control



PQE203
Headrest Mounting Arm for Video Monitors

ZCB001
Glass Antenna Mount for VDH910 VHS Player and TTX001 TV Tuner

ZCB301
Dipole TV Antenna Inside Glass Mount Antenna for TTX7501z and TTX7601



CCA25E
REAR VISION COLOR CAMERA
•Wide Angle Lens
•Weather-Resistant Aluminum Case
•1/4" CCD Imager

ZCP100
Amplified Diversity TV Antenna for TTX7501z and TTX7601

ZMT009
Gooseneck Monitor Mount



CAA188
REAR VISION CAMERA POWER SUPPLY FOR CCA425E



CAA389
8P DIN RCA A/V Adapter for VRX925VD, VRX815, VRX610, TVX5653, TTX7501z



CAA397
6 Disc Magazine for DCZ625, DC625 Changers



CAA355
6 Disc Magazine for CDC655Tz, CDC635, XM655-RET Changers



RCB-147-600
Steering Wheel Remote Control for Current Clarion Source Units



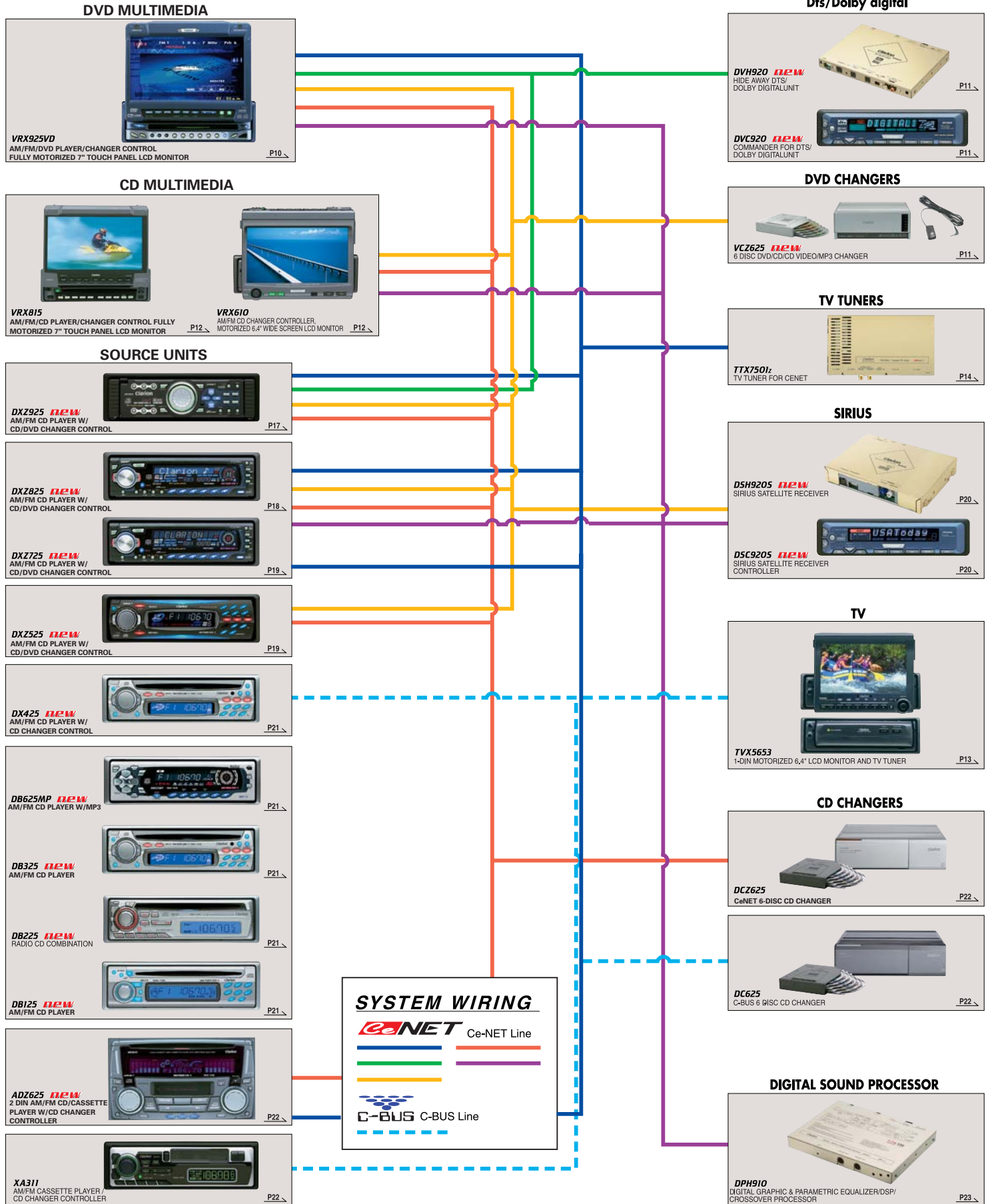
CAA329
C-Bus 16 Foot Replacement Changer Cable

CAA519
CeNet Y Adapter for Multi-Changer Connection

CAA561
CeNet 16' Replacement Changer Cable

DCA005 16' Fiber Optic Cable 2002 Source Unit Side to 2002 5.1 Processor Box
DCA006 16' Fiber Optic Cable <2001 Source Unit Side to 2002 5.1 Processor Box
DCA007 16" Fiber Optic Cable 2002 Source Unit side to DPH910/DVS9755z Box
DCA008 5' Fiber Optic Cable 2002 Source Unit Side to 2002 5.1 Processor Box

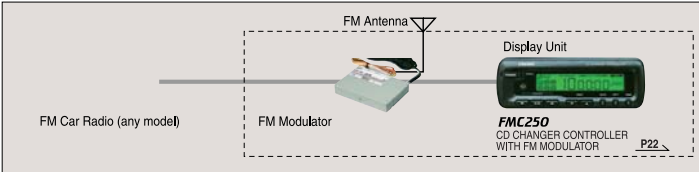
SYSTEM DIAGRAMS



POWER SYSTEM PROCESSORS



CD CHANGER CONTROLLER



POWER SYSTEM AMPLIFIERS



POWER SYSTEM SPEAKERS



SUBWOOFERS POWER SYSTEM



PHAZE 1 SPEAKERS



CHART INFORMATION

MULTIMEDIA

	VRX923VD	Vs715	VDZ625	DVH920	OHM620	OHM720	OHM642	VMA7191	VMA6491	VMA5091	MSS430	TTX001	TTX7501z	TTX7801	VDH910
DVD PLAYERS															
In-Dash Fully Motorized 7" Widescreen LCD	•														
Touch-Screen Control	•														
Single Play DVD Mechanism	•	•													
Plays DVD Video/CD Video/CD Audio	•	•	•												
6 Disc DVD Changer			•												
Stand Alone or CeNet Controlled			•												
AM/FM Tuner	•														
3 Band Parametric EQ w/Beat EQ	•														
CeNet Changer/DVD Changer Controller	•														
Sirius Satellite Ready	•														
24 Bit D/A Converter	•	•	•												
6 Channel/4 Volt RCA Outputs	•														
Detachable Faceplate	•	•													
2 Channel RCA Audio Outputs		•	•												
Dolby Digital/dts Digital Fiber Optic Output	•		•												
A/V RCA Input/CCA389 A/V Input	1/2	1/0													
Composite Video RCA Output	•	•	•												
MP3 Audio	•	•	•												
IR Remote Control	•	•	•												
5.1 CHANNEL PROCESSOR															
DTS/Dolby Digital/Dolby Pro Logic II Decoder				•											
24 Bit D/A Converter				•											
7 Digital Sound Fields w/ Time Alignment				•											
3 Band Parametric EQ				•											
Built-In High Pass/Low Pass Crossovers				•											
6 Channel/4 Volt RCA Outputs				•											
2 Channel RCA Audio Inputs				•											
Digital Fiber Optic Input				•											
CeNet Controlled				•											
Stand Alone Operation w/Optional Control Panel				•											
MONITORS															
Screen Size					8"	7"	6.4"	7"	6.4"	5"					
Video Composite RCA Input					2	2	1	2	1	1					
RCA Stereo Audio Inputs					2	2	2								
TFT Active Matrix Display					•	•	•	•	•	•					
IR Receiver Built-In					•	•	•	•	•	•					
Selectable Wide Screen Format						•		•							
Flip Down Roof Mount					•	•	•								
Built-In Dome Light					•	•	•								
IR Audio Output For IR Headphones					•	•	•								
Includes IR Wireless Headphones					•	•									
Front Panel Function Controls					•	•									
TV TUNERS															
Diversity Tuner System													•	•	
Built-In FM Transmitter														•	
Stereo TV Audio												•		•	
Plug-In IR Eye Input w/ IR Eye												•		•	
IR Remote Control												•		•	
Stereo Audio Output												•	•	•	
CeNet Controlled													•		
A/V Input w/Optional CCA389													•		
RCA Stereo Audio Inputs													1	1	
RCA Video Inputs													1	1	
RCA Video Outputs												1	1	1	
RCA Stereo Audio Outputs												1	CeNet	1	
MULTI-ZONE SWITCHERS															
Multi-Source Switching of 4 A/V Sources													•		
RCA Composite A/V Inputs													4		
RCA Composite A/V Outputs													3		
Includes Control Stations/Total Stations													3		
Rear Vision Camera Input Trigger													•		
VIDEO CASSETTE RECORDER															
Built-In TV Tuner															•
Front and Rear RCA Inputs															•
RCA A/V Output															•
On Screen Display															•
High-Fi Stereo Audio															•
Input/Output Loop-Through															•
Horizontal/Vertical Mounting															•

SOURCE UNITS

	VRX815	VRX610	TVX3653	DXZ925	DXZ825	DXZ725	DXZ5255	DB625MP	DX425	DB325	DB225	DB125	ADZ825	XA371	DSH920S	DCZ825	DC625	FM230	XMD1-RET	XMA1-RET	M5675-RET
TUNER																					
Electronic Quartz-Locked PPL Tuning	•	•		•	•	•	•	•	•	•	•	•	•	•					•	•	•
Touchbutton Memory (AM/FM)	•	•		•	•	•	•	•	•	•	•	•	•	•					•	•	•
Seek Up/Down Tuning	•	•		•	•	•	•	•	•	•	•	•	•	•					•	•	•
Preset Scan/Auto Store	•	•		•	•	•	•	•	•	•	•	•	•	•					•	•	•
Magi-Tune FM Reception System								•	•	•	•	•	•	•					•	•	
Magi-Tune + FM Reception System	•	•		•	•	•	•														•
Station Title Memory	•	•		•	•	•	•						•								
Switchable Frequency Spacing	•	•		•	•	•	•	•	•	•	•	•	•	•					•	•	•
COMPACT DISC																					
Disc Title Memory	•			•	•	•	•						•								
CD Text																	•				
Plays MP3 Audio								•													
Plays CD-R/RW	•			•	•	•	•	•	•	•	•	•	•	•			•	•			
8-Times Oversampling Digital Filter	•			•	•	•	•	•	•	•	•	•	•	•			•	•			•
Dual 1-Bit D/A Converters	•																•	•			•
Dual 24-Bit D/A Converters				•	•																
Zero-Bit Detector™ Mute Circuit	•																				•
Low Vibration Suspension System	•			•	•	•	•	•	•	•	•	•	•	•							•
3-Beam Laser Tracking System	•			•	•	•	•	•	•	•	•	•	•	•							•
Random Play/Intro Scan/Repeat	•			•	•	•	•	•	•	•	•	•	•	•							•
Track Music Search FF/FB	•			•	•	•	•	•	•	•	•	•	•	•							•
Audible FF/FB	•			•	•	•	•	•	•	•	•	•	•	•							•
Last Position Memory	•			•	•	•	•	•	•	•	•	•	•	•							•
Eject Capability with Key Off	•			•	•	•	•	•	•	•	•	•	•	•							•
Auto Reload After 15 Seconds	•			•	•	•	•	•	•	•	•	•	•	•							•
Fiber Optic Digital Output																	•				
120 Degree Mounting Capability																	•	•			
CeNet Bus	•			•	•	•	•						•				•				
C-Bus									•								•		•		•
SIRIUS SATELLITE RADIO																					
CeNet Controlled																	•				
Band Selector																	•				
Seek Tuning																	•				
Preset Memory Mode																	•				
Category Scan																	•				
Preset Scan																	•				
Category Selection																	•				
2-Channel RCA Line Level Output																	•				
Stand Alone Use w/DCS920S Controller																	•				
TAPE																					
Ato Reverse														•	•						•
Locking FF/REW														•	•						•
Full Logic Tape Transport														•							•
Blank Skip/Intro Scan/Repeat														•							•
Motorized Load/Eject														•							•
Eject Capability with Key Off														•							•
Electronic DC Servo Motor														•	•						•
Tape EQ Selector (MTL)														auto							auto
Key-Off Pinch Roller Release														•							•
Automatic Program Control (APC)														•							•
Dolby B Noise Reduction														•							
Hard Permalloy Head														•	•						
Hard Permalloy Dual Gutter Head														•							•
CD CHANGER CONTROL																					
6 Disc Changer Control Capability	•	•	•	•	•	•	•	•	•				•	•				•	•	•	•
Multi-Changer Control Capable	•	•		•	•	•	•						•								
C-Bus Controller			•					•						•				•	•	•	•
CeNet Controller	•	•		•	•	•	•						•								
Disc/Title Memory	•	•		•	•	•	•						•								
CD Text				•	•	•	•						•								
Direct Disc Select (By Magazine)	•	•	•	•	•	•	•	•					•	•				•	•	•	•
Play/Pause Selector	•	•	•	•	•	•	•	•	•				•	•				•	•	•	•
Random Play (Disc/Magazine)	•	•	•	•	•	•	•	•	•				•	•				•	•	•	•
Intro Music Scan (Disc/Magazine)	•	•	•	•	•	•	•	•	•				•	•				•	•	•	•
Music Selection Repeat (Disc/Magazine)	•	•	•	•	•	•	•	•	•				•	•				•	•	•	•
Track Music Search FF/FB	•	•	•	•	•	•	•	•	•				•	•				•	•	•	•
Audible FF/FB	•	•	•	•	•	•	•	•	•				•	•				•	•	•	•

CHART INFORMATION

SOURCE UNITS

	VRX875	VRX670	TVX6653	DVZ925	DVZ825	DVZ725	DVZ9255	DB625MP	DX425	DB325	DB225	DB125	ADZ625	XA311	DSH920S	DCZ625	DC625	FMC250	XMD1-RET	XMA1-RET	M5675-RET	
MULTIMEDIA																						
Display Size	7"	6.4"	5.8"																			
Video Inputs	3	2	1																			
Video Outputs	1	1																				
Touch Screen Controls	•																					
Motorized Display Screen	•	•																				
Fully Motorized Display Screen	•																					
Controls TTX7501z TV Tuner	•	•		•	•	•	•	•					•									
Built-in TV Tuner			•																			
MARINE																						
Waterproof Front Panel																			•	•		
Water Resistant																					•	
Coated Microprocessor																			•	•	•	
Input for Wired Marine Remote Control																			•	•	•	
AUDIO																						
Maximum Power Output	50 x4	40x4		50x4	50x4	50x4	50x4	50x4	50x4	50x4	50x4	50x4	50x4	40x4						45x4	45x4	45x4
Rotary Volume Control				•	•	•	•		•	•	•	•	•	•								•
Electronic Audio Control	•	•						•												•	•	
Z-Enhancer Control	•	•							•	•	•	•		•						•	•	•
Bass & Treble Tone Controls	•	•		•	•	•	•	•	•	•	•	•	•	•						•	•	•
3 Band Parametric EQ/Beat EQ				•	•	•														•	•	•
Built-in Digital DSP/EQ				•									•									
Built-in Dolby Pro Logic II Decoder				•																		
Built-in High Pass Crossover				•																		
Built-in Low Pass Crossover				•																		
AUX input	•	•		•	•	•	•															
Tone Control Bypass	•	•		•	•	•	•	•	•	•	•	•	•	•						•	•	•
Loudness Contour	•	•		•	•	•	•	•	•	•	•	•	•	•						•	•	•
4-Way Balance Controls	•	•		•	•	•	•	•	•	•	•	•	•	•						•	•	•
Audio Muting	•	•		•	•	•	•	•	•	•	•	•	•	•						•	•	•
2-Channel RCA Output w/Fader				•	•	•	•	•	•	•	•	•	•	•	•							
4-Channel RCA Output w/Fader	•	•		•	•	•	•	•	•	•	•	•	•	•						•	•	•
2-Channel RCA Non-Fade Output	•			•	•	•																
Non-Fade Line Level Volume Control	•			•	•																	
4-Volt Line Level Output	•	•		•	•	•																
24 Bit Burr-Brown D/A Converter				•	•																	
GENERAL																						
Motorized Dual Action Face				•																		
Fully Motorized Fold Down Face					•																	
Flip Down Face						•	•	•														
Aluminum Escutcheon Face				•	•	•	•	•	•	•	•	•	•									
Pop-Up Rotary Volume Control				•	•																	
Detachable Control Panel (DCP)	•	•		•	•	•	•	•	•	•	•	•	•									•
DCP Carrying Case Included		•		•	•	•	•	•	•	•	•	•	•									•
Instant Station Recall (ISR)	•	•		•	•	•	•	•	•	•	•	•	•	•						•	•	•
Digital Quartz Clock (Selectable Freq/Clock)	•	•		•	•	•	•	•	•	•	•	•	•	•						•	•	•
Monitor Mode													•									•
Cellular Phone Interrupt	•	•		•	•	•	•	•	•	•	•	•	•									
Screen Saver	•			•	•	•	•	•	•	•	•	•	•									
Multi-Color Display				•	•	•	•	•	•	•	•	•	•							•	•	•
Full Dot Matrix Display				•	•	•		•														
Adjustable Contrast				•	•			•														
Electric Blue LCD Display								•		•	•	•										
Infrared Remote Control	•	•	•	•	•	•	•	•	•	•	•	•	•									
Chassis Type	1 DIN	1 DIN	1DIN	1 DIN	1 DIN	1 DIN	1 DIN	1 DIN	1 DIN	1 DIN	1 DIN	1 DIN	2 DIN							2 DIN	2 DIN	1 DIN
Capability to Control:																						
EQ/DSP Module (DPH910)	•	•		•	•	•																
TV Tuner Module (TTX7501z)	•	•		•	•	•							•									
5.1 Channel Processor (DVH920)				•																		
Sirius Satellite Radio Receiver (DSH920S)				•	•	•	•															
DVD Changer (VDZ625)				•	•	•	•															

AMPLIFIERS

	<i>DPX1001.2</i>	<i>APX401.4</i>	<i>APX401.2</i>	<i>APX201.2</i>
AMPLIFIER BASIC INFORMATION				
Number of Channels	2	4	2	2
Maximum Power Output (Watts)	1000	400	400	200
Continuous Power Output (Watts)	150x2	50x4	100x2	50x2
MOSFET Power Supply	●	●	●	●
Protection Circuits	●	●	●	●
HP-LP Electronic Crossover	●	●	●	●
Variable Crossover Frequency	55Hz-5.5kHz	55Hz-5.5kHz	55Hz-5.5kHz	55Hz-5.5kHz
10X Frequency Multiplier	●	●	●	●
Mixed Mode Operation	●	●	●	●
Bridgable (Number of Channels)	2/1	4/3/2	2/1	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	●	●	●	●
MAXIMUM POWER OUTPUT				
Total Power (Watts)	1000	400	400	200
Per Channel (Watts)	1000	100x4	200x2	100x2
CONTINUOUS POWER OUTPUT PER/CH.				
4 Ohms, 20Hz-20kHz (Watts)	175	50x4	100x2	50x2
THD @ Rated Output, (%)	0.05	0.05	0.05	0.05
2 Ohms, 20Hz-20kHz (@.5%THD)	500 x 2	90x4	190x2	110x2
Bridged, 1kHz (@.5%THD)	1000	190x2	380	230
LOAD CAPACITY				
Stereo, Ohms	2	2	2	2

PROCESSORS & EQS

	<i>DPF1970</i>	<i>EQS560</i>	<i>MCD360</i>	<i>BCX100</i>
PROCESSORS AND EQUALIZERS				
GENERAL INFORMATION				
Graphic EQ Bands	7	5		
3 Band Parametric EQ	●			
4 Band Parametric EQ				
Adjustable Center Frequencies	●			
Adjustable Q Factor	●			
DSP Presets (Factory/User)	12/6			
EQ Presets (Factory/User)	6/6			
7 Adj. Sound Field Parameters	●			
5 Seating Positions	●			
3 Band F/R Ind. Digital Parametric EQ	●			
High Pass Crossover Slope (dB)	18			
Low Pass Crossover Slope (dB)	24	12		
F/R Parametric Presets	6/6			
Digital Fiber Optic Inputs	4			
Digital Fiber Optic Outputs	1			
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	●			
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	4V	7V		
EQ AND CROSSOVER INFORMATION				
EQUALIZER TONE ACTION				
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	●			
HIGH PASS FREQUENCY				
Selectable @ 50, 80, 120Hz (18dB/Oct.)	●			
Variable 32Hz-8kHz (Front), 32-400Hz (Rear)			●	
LOW PASS FREQUENCY				
Selectable @ 50, 80, 120Hz	●			
Selectable @ 60, 90Hz		●		
Variable @ 50-250Hz				
Variable @ 32-400Hz			●	
Selectable 70, 90, 120Hz				●
SUBWOOFER LINE OUTPUT				
Adjustable Range (dB)	0-12	0-12		0-12

CHART INFORMATION

SPEAKERS

	SRS1684	SRS1364	SRH284	SRW3881	SRW3081	SRW2581	SRW2081	SRW3841	SRW3041	SRW2541	SRW2041	SRC4694	SRC5794	SRR1384	SRR1684	SRC4684	SRC5784	SRC6984	
POWER SERIES SPEAKERS																			
SIZE OF SPEAKER																			
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				•				•											
TYPE OF SPEAKER																			
Tweeter	•	•	•									•	•						
Midrange		•										•	•						
Woofer	•																		
Dual Voice Coil Subwoofer				•	•	•	•												
Single Voice Coil Subwoofer								•	•	•	•								
Dual Cone																			
Coaxial														•	•	•			
3 Way																	•	•	•
CONE MATERIAL																			
Polyether Imide (Tweeter)												•	•	•	•	•	•	•	•
Silk Cloth (Tweeter)	•	•	•																
Polyether Imide (Midrange)																		•	•
Polypropylene w/Titanium Coating				•	•	•	•	•	•	•	•								
MIPP w/Metal Coating	•	•										•	•	•	•	•	•	•	•
CONTINUOUS POWER (W)	50	40	45	300	250	200	150	300	250	200	150	35	35	30	40	25	35	50	
MAX MUSIC POWER (W)	200	160	150	600	500	400	300	600	500	400	300	130	130	120	160	100	140	200	
MOUNT DEPTH (in)																			
	2 3/16	2 1/4	15/16	7 1/8	5 7/8	5	4	7 1/8	5 1/8	5	4	1 9/16	2	1 7/8	1 7/8	1 7/8	2 1/4	2 15/16	
CUT-OUT SIZE																			
Width (in)	4 7/8	4 5/8	2	13 7/8	11	9 1/16	7 1/8	13 7/8	11	9 1/16	7 1/8	4 1/8	5	4 7/8	5 1/4	4 1/8	5	5 15/16	
Depth (in)												6 1/8	7 3/8			6 1/4	7 3/8	8 3/4	

	SRS1624	SRS1324	SRH204	SRV303	SRC924	SRR1026	SRR1324	SRR1625	SRR1626	SRR1634	SRC4624	SRC5724	SRR6924	SRR6934	CM1632-RET	CM1622-RET	CM2503-RET
PHAZE 1/MARINE SPEAKERS																	
SIZE OF SPEAKER																	
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																	
TYPE OF SPEAKER																	
Tweeter	•	•	•													•	
Midrange		•															
Woofer	•															•	
Subwoofer				Powered													•
Dual Cone																	
Coaxial					•	•	•	•	•	•	•						•
3 Way										•					•		
Marine																	
CONE MATERIAL																	
Polyether Imide (Tweeter)	•	•	•														
Silk Cloth (Tweeter)																	
Titanium (Tweeter)																•	•
Polyether Imide (Midrange)											•						
Polylamine										•			•	•			
Polypropylene															•	•	•
Mica-Injected Polypropylene	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•
CONTINUOUS POWER (W)	40	40	40	50	20	30	30	30	35	40	25	35	40	50	30	30	150
MAX MUSIC POWER (W)	170	170	170	120	60	100	120	120	160	180	100	140	200	220	100	100	300
MOUNT DEPTH (in)																	
	2 1/4	2			1 3/8	1 3/4	1 13/16	1 7/8	1 7/8	2 3/16	1 7/8	2 3/8	2 3/4	2 7/8			
CUT-OUT SIZE																	
Width (in)	5	4 1/2	1 5/8		3 1/8	4	4 1/2	4 7/8	4 7/8	4 7/8	3 15/16	4 15/16	5 15/16	5 5/16			
Depth (in)											5 7/8	7 3/16	8 3/4	8 3/4			

MAIN UNITS



24-bit D/A Converter

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



BEAT EQ

Clarion's advanced tone control system features a three-band parametric equalizer with three preprogrammed positions (BASS BOOST, IMPACT, and EXCITE).



Z-Enhancer

Three types of sound quality patterns (Bass boost, Treble boost, Bass and Treble boost) can be selected with the single touch of a button. This makes it simple to perform the desired equalizing adjustments for greater driving safety.



Aluminum Face

The control panel has a 2-mm thick, pure aluminum extrusion molding design and uses only the finest components to add a refined feel to your car's interior.



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.



4-Volt 6-Channel RCA Output Terminals

These RCA terminals are equipped with 4-volt output for a high signal-to-noise ratio and allow driving of a high-power amplifier directly from your system.



6-Channel RCA Output Terminals

These RCA terminals allow 6-channel output for easy configuration of a multi-amplifier system.



4-Channel RCA Output Terminals

These RCA terminals allow 4-channel output for easy configuration of a multi-amplifier system.



2-Channel RCA Output Terminals

These RCA terminals support 2-channel output for upgrading your system to a higher power configuration.



Switchable 4-Channel RCA Input/Output Terminals

This feature allows to drive 4-channel of the output audio signal from DVS9755z, DPH910, EQS560 and PEQ460 with built-in amplifiers.



Detachable Control Panel

To prevent theft and damage to your car entertainment system, the control panel can be detached from the unit and taken with you when leaving the car.



CeNET

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



C-BUS

C-BUS is a system network bus line for providing enhanced operation and functionality of your car entertainment system.



TV Tuner Control

The TV tuner can be controlled from the main unit.



CD Changer Control

The 6-disc or 12-disc CD changer can be controlled from the main unit.



Digital Sound Processor Control

The digital sound processor can be controlled from the main unit.

SPEAKERS

Rubber Surrounds

The rolled edge of the diaphragm allows the cone to move in a linear direction while instantaneously stopping movement when the signal has been reproduced. Highly durable and moisture-resistant, this special rubber surround cuts distortion and further improves linearity. Clarion's Power System speakers feature this component.

Polymer-Laminated Hybrid-Cone

A specially developed high polymer film is used to laminate the cone paper in these speakers. The need to press the cone is eliminated, yet the texture of the cone paper is maintained, with the lamination providing the desired rigidity. The end result is minimum internal loss and distortion-free, natural sound. The polymer laminate also exhibits superb resistance to humidity and water spray. Clarion's Phase 1 speakers features this component.

MICA Polypropylene Mixed Injection Cone

Speaker diaphragms must be light and rigid, with minimal resonance. The MICA polypropylene mixed injection cone is a state-of-the-art speaker diaphragm. Light enough to float on water, yet strong and flexible, it guarantees almost zero internal loss. Injection-molded to the optimal thickness, this cone offers high efficiency and an expanded vibration range. Its excellent response is perfectly suited to the high precision and fast transients of digital sources.

Silk-Cloth Soft Dome Tweeter

Clarion's Power Series tweeters use soft dome diaphragms. 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. Clarion's Power Series features this component.

DIGITAL READY Digital Ready

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

Water-Resistant Cone

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

BUILD UP Multi-Speaker Systems

To direct clear sound at the driver's ears, install a tweeter and a mid-range speaker in the front door or dashboard. For heavy bass, install a woofer in a proper sized box.

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.

SR MAGNET 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.



Neodymium Magnet

While extremely compact, the neodymium magnet also has very high magnetic energy (BHmax). The powerful magnetic field and minimum magnetic distortion deliver effortless sound.

GOLD Gold-Plated Terminals

The speaker terminals are gold-plated Fast-on or Quick-types with minimum contact resistance and high transmission efficiency.

POLYPROPYLENE CONE Polypropylene Cone

Polypropylene is a perfect material for woofer and mid-range cones. Because of its high power-handling characteristics, polypropylene allows full-power bass response without the bass breaking up or the slightest trace of distortion.

PEI BALANCED DRIVE DOME TWEETER

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.

PEI CONE TWEETER

The PEI (Polyether Imide) cone is impervious to heat and other ambient conditions prevalent in the car environment. Thanks to its ultra-lightweight diaphragm, it is highly efficient and provides very fast dynamic response.



MICA Polypropylene Mixed Injection Cone

The cool blue cone that delivers hot sound performance. These injection molded diaphragms use polypropylene with mica particles blended in, with a molecular structure that radiates from the inside outward, to attain the lightness and rigidity necessary to create speakers with superior response even to the fast transients of digital sources. The Power System speakers use this technology with the added benefit of metal plating to make the speaker cone even stiffer for better power handling and sound quality. The result you hear is a clean and clear sound with very low distortion.



GYRO IMAGING Tweeter in Power System 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 that the tweeter sends high frequencies to the listener's ears, high frequency response is increased, and spatial imaging is dramatically improved.

CLARION CORPORATION OF AMERICA

661 W. Redondo Beach Blvd., Gardena, CA 90247-4201 U.S.A.
Tel 310.327.9100 Fax 310.327.1999

CLARION CANADA

2239 Winston Park Dr. Oakville, Ontario L6H5R1 Canada.
Tel 905.829.4600 Fax 905.829.4608

LATIN AMERICA DIVISION

7205 Corporate Center Drive, Suite 411 Miami, FL 33126 U.S.A.
Tel 305.406.0999 Fax 305.406.0964 infolac@clarion.com

www.clarion.com
www.clarioncanada.com

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

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