

Clarion®

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clarion®

Distributor

 **Driving with IVCS**
In Vehicle Computing System

Clarion Marine Products for 2005...



Clarion Marine Products for 2005...

Rocking Boats Everywhere

Making Waves With Top-Notch Audio Entertainment

There's nothing like spending a day out on the water – friends, family, food, drink and some tunes. It inspires a feeling you can't get anywhere else. It's this feeling that Clarion has been in pursuit of for years, creating products that not only sound good, but were made specifically for the marine environment... Introducing Clarion's 2005 marine-based product line. For the next five pages, you will see two new source units, four new wired source-unit remotes, a powerful amplifier line, and an all-new speaker line that performs better than ever before.



The flip-down face of the CMD4 marine audio head unit enhances water resistance of the CD mechanism.

Setting the Standard

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

Quick Release Door With Watertight Seal

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

Integrated Drip Shield, Mounting Gasket and Bracket

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

The Industry Reference

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

MOS-FET Amplification

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

Marine Power Amplifier

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

Marine Speakers

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

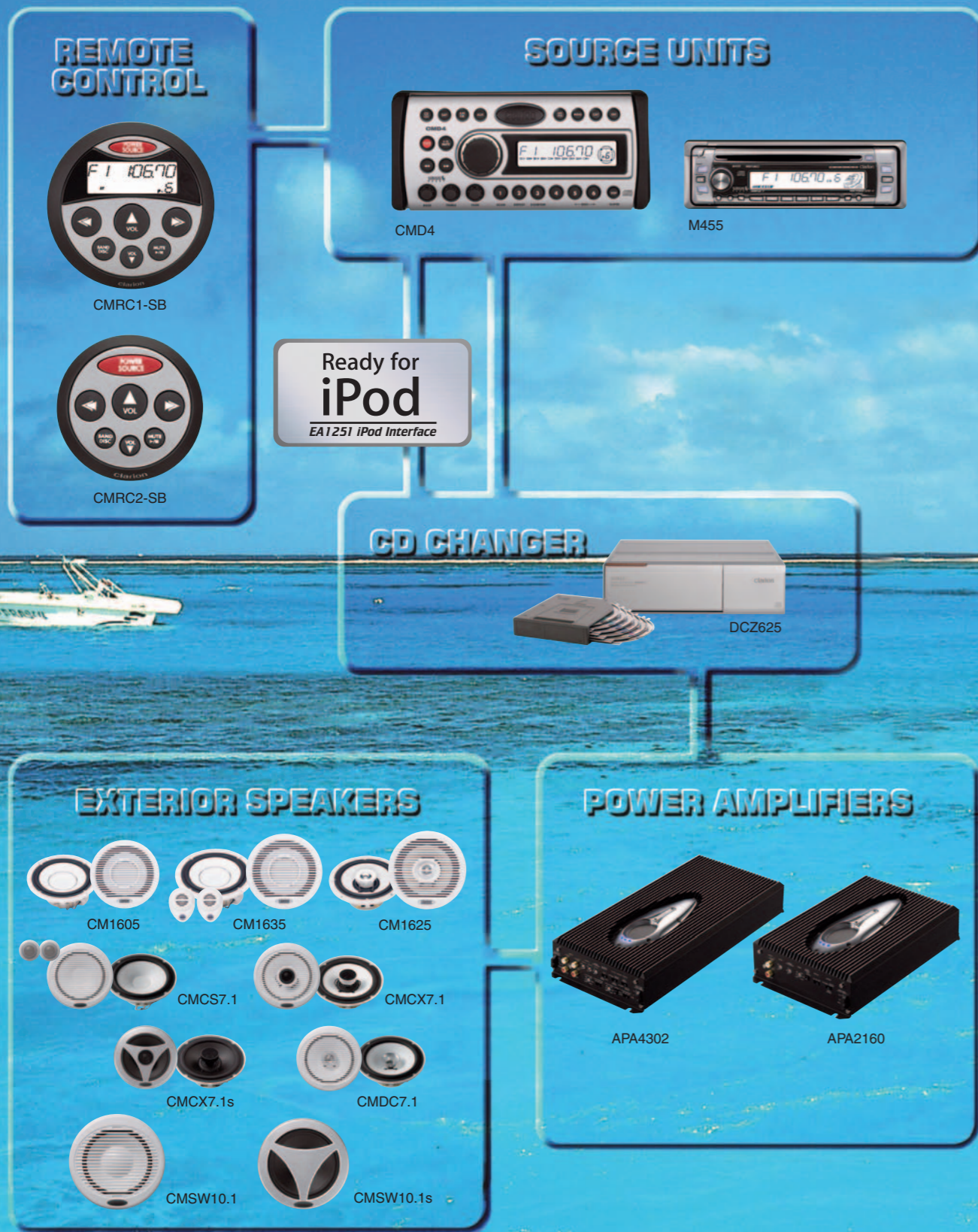
PEI Cone Tweeter

Possessing superior physical properties, Clarion's PEI (polyether imide) cone provides superior sound while offering high rigidity, high durability, as well as high resistance to extreme heat and weather. This design also boasts an ultra-lightweight diaphragm, resulting in a highly efficient tweeter that provides fast dynamic response.



Marine speakers with enhanced water resistance.

MARINE AUDIO SYSTEM



CMD4 NEW

WATERTIGHT MARINE CD RECEIVER / CENET CONTROL

- Marineized Front Panel
- Plays CD-R/RW
- Input for Marine Wired Remote Control
- 2-Band Parametric EQ
- 212 Watts (53W x 4) Max Power Output
- 6-ch RCA Line Level Output
- Rotary Volume Control
- Adjustable Display Contrast
- CD and Station Titling
- 18FM/6AM Presets
- CeNET Control: 6-Disc CD Changer
- CeNET iPod interface Compatible
- Adjustable AUX Input



► **CMRC1-SB NEW**
MARINE REMOTE CONTROLLER WITH LCD FOR CMD4 & M455



► **CMRC2-SB NEW**
MARINE REMOTE CONTROLLER WITHOUT LCD FOR CMD4 & M455



► **CMRC1-BSS NEW**
MARINE REMOTE CONTROLLER WITH LCD FOR CMD4 & M455



► **CMRC2-BSS NEW**
MARINE REMOTE CONTROLLER WITHOUT LCD FOR CMD4 & M455



► **M455 NEW**
MARINE CD RECEIVER / CENET CONTROL

- Plays CD-R/RW
- 2-Band Parametric EQ (Z-Enhancer Plus)
- Built-In Adjustable Low-Pass Crossover: 50Hz/80Hz/120Hz
- Magna Bass EX
- 208 Watts (52W x 4) Max Power Output
- Input for Marine Wired Remote Control
- 4-ch RCA Line Level Output
- Rotary Volume Control
- Screen Saver With User-Programmable Message Information
- Adjustable Display Contrast
- Detachable Control Panel
- CD and Station Titling
- Magi-Tune+Tuner With 18FM/6AM Presets
- CeNET Control: TV Tuner, 6-Disc CD Changer
- CeNET iPod interface Compatible
- Adjustable AUX Input



► **EA1251 NEW**
CENET IPOD INTERFACE TO SUIT CMD4 & M455

Ready for iPod

*iPod is for legal or right holder-authorized copying only. Don't steal music. iPod is a trademark of Apple Computer, Inc., registered in the U.S. and other countries.
**Based on HDD capacity of 40GB, tunes 4 min. in length, AAC encoded at 128Kbps)

iPod lets you carry around up to 10,000 songs in your pocket (based on HDD capacity of 40GB, tunes 4 min. in length, AAC encoded at 128Kbps). Clarion offers iPod Control so you can enjoy music stored on the iPod over your boat or car's powerful audio system by simply plugging your iPod into the adapter. iPod Control enables simple operation of all of iPod's functions from the head unit control panel. The iPod's battery is charged while connected to the head unit, you can unplug and enjoy your iPod right after you've reached your destination.



DCZ625

6-DISC CD CHANGER FOR CENET

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



MAX 640W



MAX 320W

APA4320

4/3/2-CHANNEL POWER AMPLIFIER

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

APA2160

2/1-CHANNEL POWER AMPLIFIER

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



Input: MAX 350W



Input: MAX 350W

CMSW10.1

10" WATER-RESISTANT MARINE SUBWOOFER

- Watertight
- Meets or Exceeds ASTM B117
- Meets or Exceeds ASTM D4329 (UV Exposure)
- 10" Polypropylene Cone
- Sanoprene Rubber Surround
- High-Impact Centrex 814 Grille & Frame
- Protected Magnet and Rear-Cone Design
- Liquid Drain Channel
- Rubber Insulated Tinsel Leads
- Speaker Cable Support Tab
- Gold-Plated Speaker Terminals
- 316 Stainless Steel Mounting Hardware
- Rubber Mounting Gasket
- Optimized for Infinite Baffle Application
- 350-Watt Power Handling

CMSW10.1s

10" SPORT SERIES MARINE SUBWOOFER

- Watertight
- Meets or Exceeds ASTM B117
- Meets or Exceeds ASTM D4329 (UV Exposure)
- 10" Polypropylene Cone
- Sanoprene Rubber Surround
- High-Impact Centrex 814 Grille & Frame
- Protected Magnet and Rear-Cone Design
- Liquid Drain Channel
- Rubber Insulated Tinsel Leads
- Speaker Cable Support Tab
- Gold-Plated Speaker Terminals
- 316 Stainless Steel Mounting Hardware
- Rubber Mounting Gasket
- Optimized for Infinite Baffle Application
- 350-Watt Power Handling

CM1605

6.5" DUAL CONE MARINE SPEAKER

- Watertight
- Meets or Exceeds ASTM B117 (Salt/Fog Exposure)
- Meets or Exceeds ASTM D4329 (UV Exposure)
- 6.5" Dual Polypropylene Woofer Cone
- Sanoprene Rubber Surround
- High-Impact Centrix 811 Grille/Frame
- Protected Magnet and Rear Cone Design
- Liquid Drainage Channel
- Rubber Insulated Tinsel Leads
- Speaker Cable Support Tab
- Gold-Plated Speaker Terminals
- 316 Stainless Steel Mounting Hardware
- Rubber Mounting Gasket
- 100-Watt Power Handling

CM1635

6.5" COMPONENT MARINE SPEAKER SYSTEM

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

CM1625

6.5" COAXIAL MARINE SPEAKER

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



CMCS7.1

7" COMPONENT MARINE SPEAKER SYSTEM

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

CMCX7.1s

SPORT SERIES 7" COAXIAL MARINE SPEAKER

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

CMCX7.1

7" COAXIAL MARINE SPEAKER

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

CMDC7.1

7" DUAL CONE MARINE SPEAKER

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