

ECLIPSE



2005 Fall Mobile Entertainment Catalog





Music Driving On

To make driving a better and more enjoyable experience. That's always been ECLIPSE's mission since we started crafting mobile electronics over half a century ago. We focus on creating products that communicate the passion and emotion in music. Today ECLIPSE also manufactures in-car visual entertainment along with multichannel sound to create extraordinary in-car theater products. And combined with technologies such as navigation and internet-based system customization, the latest generation of products undeniably enhance the total driving experience.

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In a class all its own.



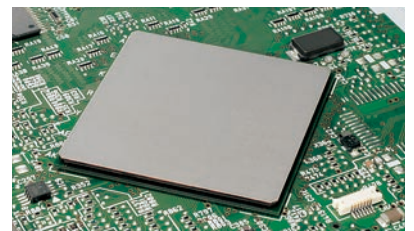
Usability

Emphasizing the ease of use that distinguishes ECLIPSE products, the attractive interface reduces the number of controls, intelligently assigning all operations to a few for easier, intuitive operation for any navigation or audio/visual task.



Originality

Only ECLIPSE offers the internet-accessible E-iSERV that provides the most comprehensive user customization and tweaking options for a specific system without the need for test equipment and professional expertise.



Quality

For uncompromised navigation and entertainment performance, the AVN7000 incorporates the Ultima Engine for sophisticated navigation with high-speed graphics processing. The optional DCU105 5.1 ch. Decoder/AV Matrix Unit allows any program source to be enjoyed in surround sound.



Introducing a system that delivers audio, visual and navigation in an elegant all-in-one design. It integrates easily into any car's interior—there is simply no other product like it.

AVN7000 NEW

HDD Navigation System with 7" Wide TFT Display and DVD/MS Multi-Source Receiver





AVN is the innovative ECLIPSE concept that integrates audio, visual and navigation into a clean, stylish design that graces any car interior.



Integrating elegantly into the center console to enhance a car's interior.

Navigation

Ultima Engine
20GB 1.8" HDD
7" wide TFT display with touch control
over 32,000 map colors
approx. 20,000 landmarks
approx. 4 million POIs

- Multiple search modes
- Split screen displays
- Map scale from 150 feet to 250 miles
- Voice announcements and guidance
- Time zones (7 areas)

Advanced navigation with outstanding ease of use.

The AVN7000 is the culmination of ECLIPSE's advanced mobile technologies that conquer space limitations to offer extraordinary navigation performance. Featuring the **Ultima Engine** for increased speed and navigation-related task processing as well as upgraded navigational features, the AVN7000 shows just how much is possible in mobile navigation today.

Audio/Visual

CD/CD-R/RW, MP3, WMA
DVD-Video, DVD-R/RW and DVD+R/RW
Dual zone operation
MOSFET 50W x 4
5.1 ch. surround sound (with DCU105)
E-iSERV connectivity (with DCU105)
Dual color illumination
TV Tuner-ready
SIRIUS Satellite Radio-ready

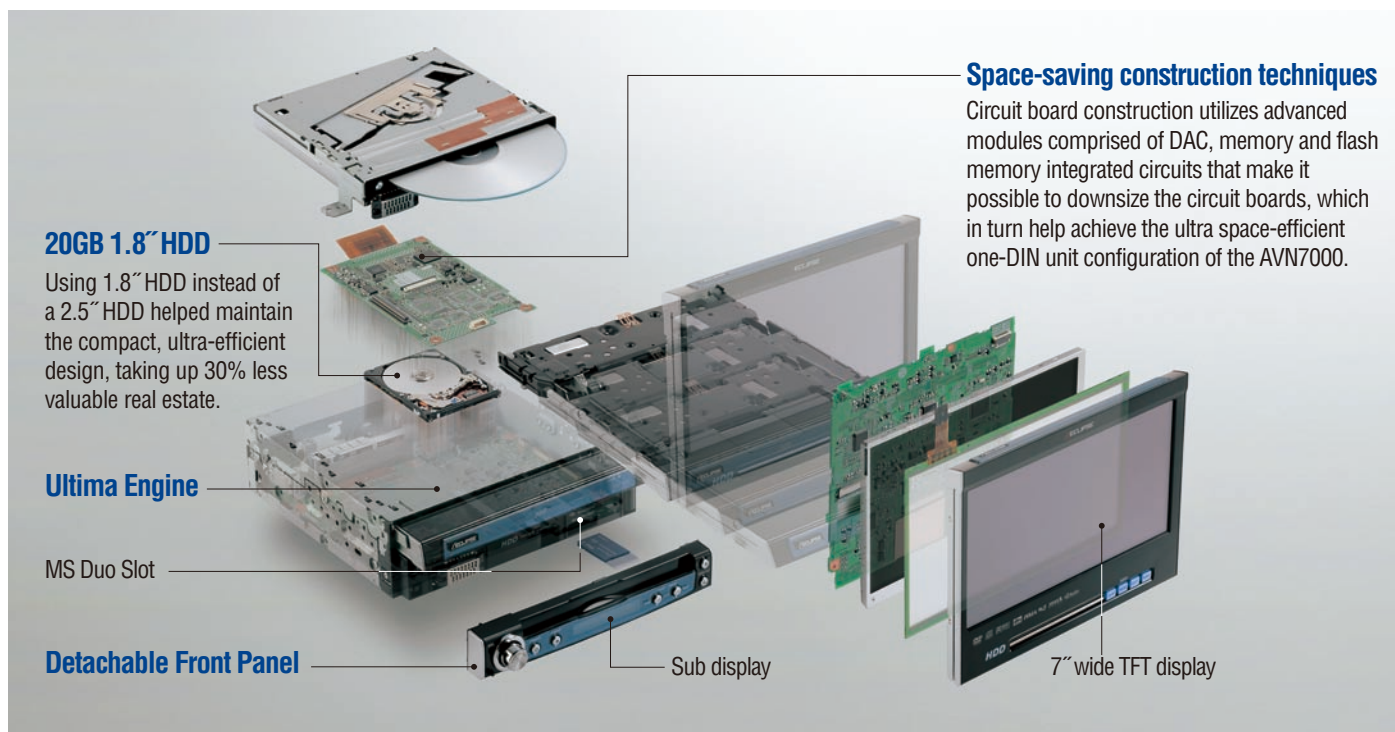
- Memory Stick Duo
- FM/AM tuner
- Advanced 24-bit $\Delta\Sigma$ DAC
- High-performance DSP:
 - Parametric equalizer
 - Time alignment
 - Crossover
 - Listening Position Selector
- 5V preamp output (with DCU105)
- CD Changer-ready (2 units)
- HD Radio-ready

Comprehensive features that enhance any audio and visual entertainment.

Having a **hard disk** allows the AVN7000 to handle navigation tasks as well as entertainment such as DVD-Video and CD to be ongoing at the same time without any interruption. Offering **5.1 ch. surround sound (with DCU105)** for surround-encoded program material as well as upmixing two channel material, the AVN7000 offers the most from any program source. Utilizing **audiophile grade circuits and components**, audio and visual performances are simply stunning.

The technology inside

ECLIPSE managed to fit all the technology to handle navigation and entertainment into a one-DIN enclosure without compromising performance.



Proximity layout

Important circuit components such as the DAC and MOSFET devices are closely positioned next to the output terminals for the most effective signal transmission and to cancel any potential noise pickup. This adds up to delivering better audio performance.

DAC → MOSFETs → OUTPUT

The culminating effect of all these efforts allows the AVN7000 to be free from noise and provide a performance that impresses.

Design accents

Chrome and silver style highlights

The stylish silver strip accents the pushbuttons on the side while the control knob and other buttons are finished in chrome for an elegant touch of contrast with the piano-black finish of the unit.



Brilliant mirror coating

Adding a style-conscious design accent is a special mirror finish that allows the unit's precision-cut edges to attractively refract light in brilliant colors.

Dual color illumination

To suit user preferences and car interiors, the switches offer a choice of color illumination.



Ultima Engine

This computing engine combines navigation and graphics processing integrated chips in one monolithic configuration for accelerated data processing.



Over 32,000 map colors

Screen translucency
On-screen information now "floats" above a map display so it's easier to see and less distracting.



Antialiasing

The Ultima Navigation Engine allows many more colors to be simultaneously used without "jaggies" and greater resolution.



Navigation

Searching

Offering the most convenient ways to find your destination.

Freeway search

Simplifies highway travel.

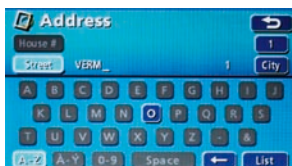
Just input the name of a freeway and the entrance/exit you want.

Coordinates search

Searches by latitude and longitude.

Address search

An address is all that is needed.



Input a street name and number will initiate a search.

City search

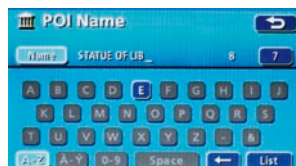
A speed search that can be activated by city or nearby vicinity.



Offers a route to the input city's central area. Up to 5 favorite cities can be conveniently grouped together. A 20 mile vicinity of the city can also be shown.

POI Name

Convenient presets for general inquiries save time.



For a particular type of location such as a mall, restaurant or other, AVN7000 brings up listings. Touch one and see more details.

Memory Points

Presets for instant accessing a location.



100 useful locations are preset for quickly scrolling through and selecting. Favorite locations can have sound tags assigned even with directivity.

POI Category

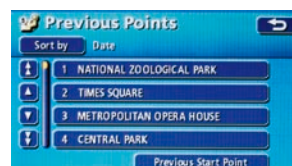
Making it simple to find locations.



Shows all the closest-to-get-to POIs from the car's current location.

Previous Points

Where the car has been.



Conveniently, the last 100 locations can be instantly displayed for selecting.

Define search area

Conveniently focuses on a general region for more efficient searching.

All searching starts with selecting the general area the destination is in.

Quick Access Points

5 buttons can be preset to any desired destination for instant recall.

Home search

This always guides the car home, no matter where it is.

Once a home address is registered, it is easy to return from anywhere.

Map search

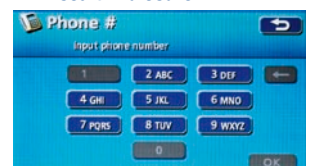
No more wasting time looking for a map.



Another easy method is to directly access a map of the search area and zoom in or out as desired.

Phone Number

Alternately, a telephone number will result in a search.

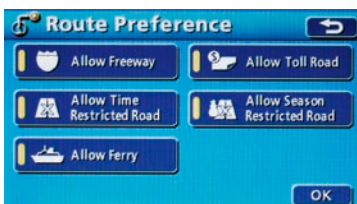


If only the phone number is known, the address corresponding to the telephone number will be shown.

Routing

Always a useful selection of routes for the user to choose from.

Route preference



Preset travel method preferences such as expressways and toll roads are factored into the routes the user can choose from.



3 routes

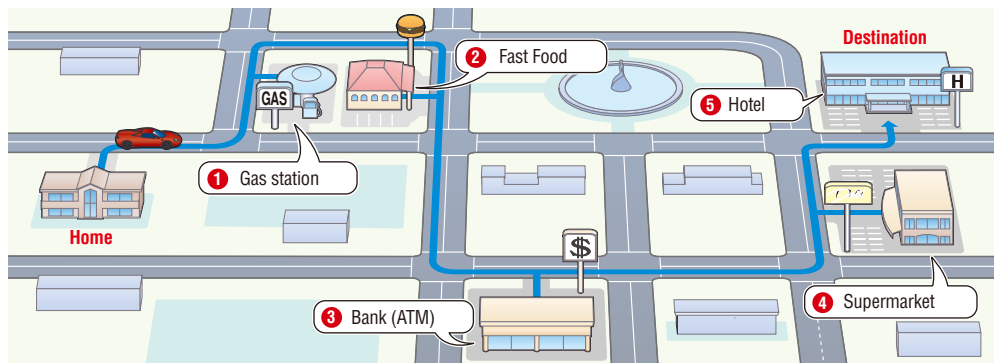
Instantly sets 3. For any destination, a choice of Quick 1, Quick 2 and Short routes to suit personal preferences adds flexibility.

Enroute stopping points

Choose when and where to take breaks.

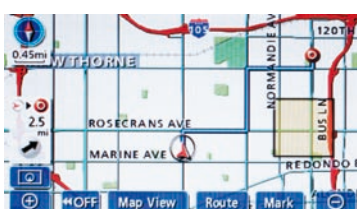


Before the final destination, any 5 locations can be programmed into the route such as a supermarket, gas station, and ATM.

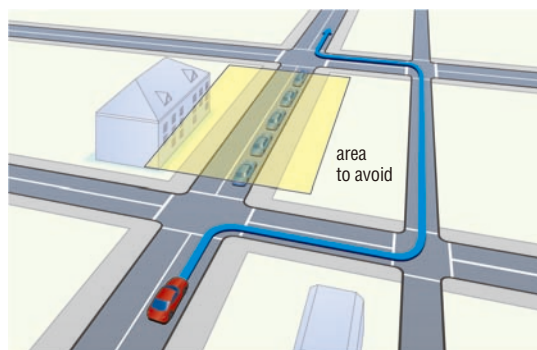


Detours

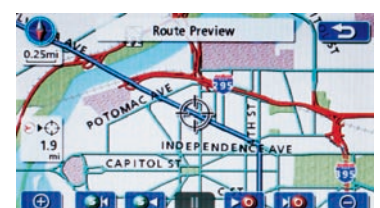
Program locations prone to problems.



Now it is easy to avoid up to 10 chronically congested and problem areas. Simply select an onscreen area, drag to resize it up or down as desired and the best detours are presented.



Route preview



Any selected route can be conveniently previewed in its entirety to get familiarized with it.

Navigation

Assistance

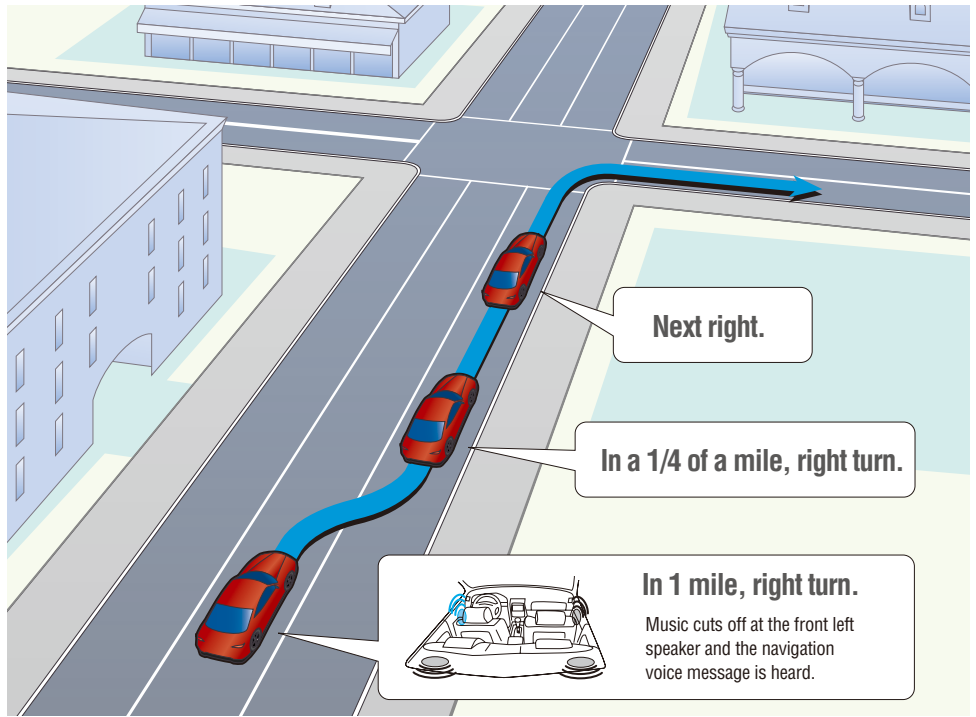
Comprehensive help features make driving enjoyable.

Voice announcements and guidance

No more missed turns.

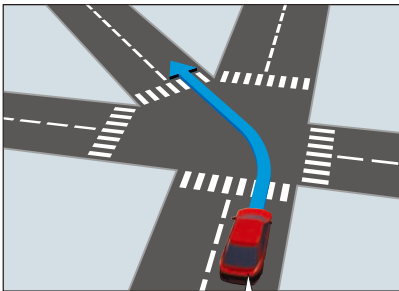


For stress-free driving, the AVN7000 advises upcoming turns and will continue to warn as the turn approaches. Other guidance for curves and driving lanes will also be announced.



Intersection zooming

Display zooms up just when needed.

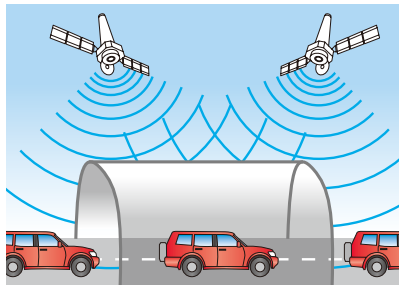


Display automatically splits as an intersection is approached.

When approaching an intersection where a turn is required, the display automatically splits into two screens to show a more close-up view with details such as landmarks.

Map and positional updating

Constant tracking maintains accurate position.

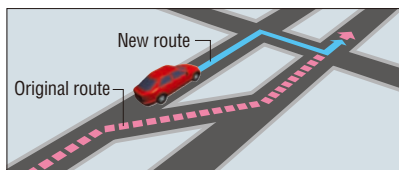


The AVN7000 constantly tracks the car even where it cannot receive satellite signals. A gyro sensor and auto speed pulse help correlate the car's travel with the onscreen map so that car's position is always accurate.

Auto rerouting

Instant response ensures no wasted time.

Wrong turns and missed streets are no longer a problem because the AVN7000 instantly reroutes to put the user right back on track.



Freeway assistance

Entrance displays.



Guidance is provided when approaching a freeway entrance with the entrance name also displayed.

Freeway interchanges



Untangling the most complex interchanges is easy with the 3D views and correct lane views the AVN7000 displays.

Exit displays



No more worries about missing the right exit because it is shown in a 3D view along with name and other useful information.

Special display features

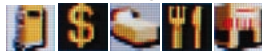
Making navigation easier than ever.

Gas stations, restaurants, ATMs and other useful locations show up onscreen as POI displays, each category distinguishable by a unique icon. Press an icon and more information about that location will be displayed.

POI displays (approx. 4 million points)



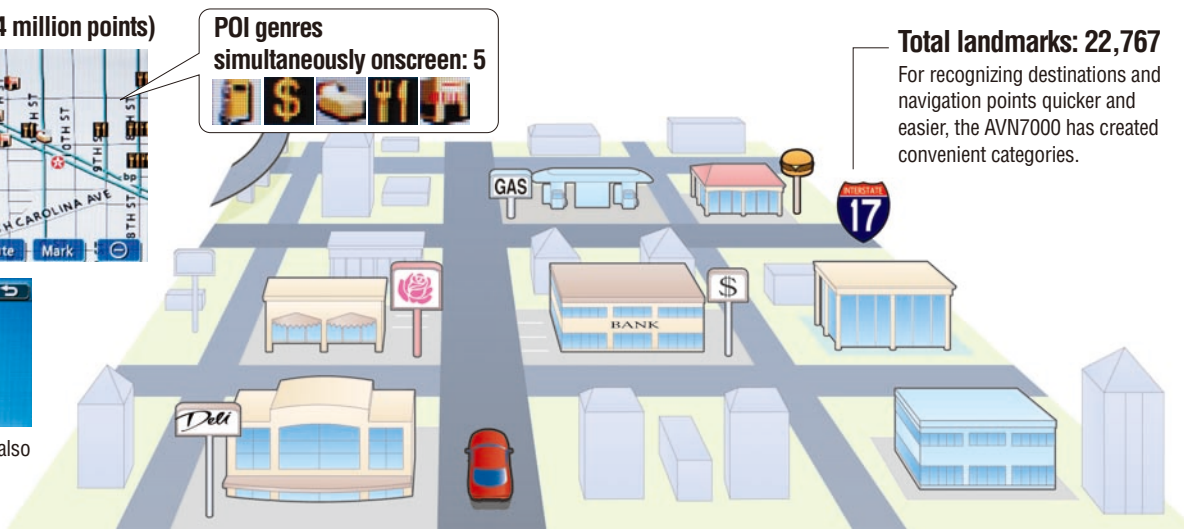
POI genres simultaneously onscreen: 5



Information regarding a POI also appears on the display.

Total landmarks: 22,767

For recognizing destinations and navigation points quicker and easier, the AVN7000 has created convenient categories.



Driving distance and arrival time displays

Useful information regarding distance to the destination as well as the estimated time of arrival can be seen.



Split screen function



This convenient function can be activated as desired to combine zoom in and out displays, maps of different scales and other combinations of various modes as desired.

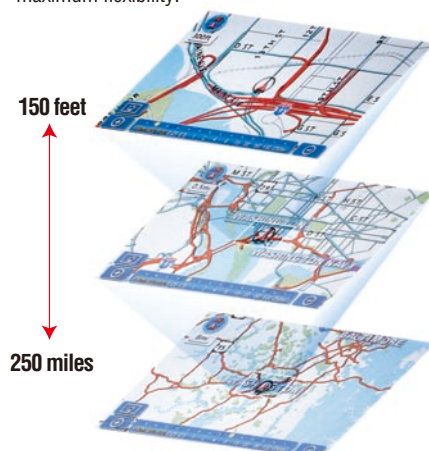
Time zones



When traveling across time zones, the AVN7000 automatically adjusts the time correctly.

Versatile zooming

Map scale can be quickly controlled by shifting magnification values. Seamless zooming is broader, covering 150 feet to 250 miles for maximum flexibility.



Smooth multi-directional scrolling



Just a light fingertip touch is all that is needed on the touch control screen for the map to scroll by smoothly and accurately following the fingertip.

Mapping coverage



Navigation database now includes Hawaii and Canada (partial).

***Transport yourself into
a theater environment.***



DCU105 Audio Video Matrix

ECLIPSE designed the powerful Audio Video Matrix unit that can be used with various ECLIPSE products. Because it is a dedicated unit, the addition of the DCU105 elevates the performance of unit it is connected to significantly for audio as well as video. It offers system control and response that would ordinarily require technicians and test equipment to achieve. It also offers many advanced system expansion choices for audio as well as video.

Dolby Digital 5.1 ch.

dts 5.1 ch.

Dolby Pro Logic II

E-iSERV connectivity

Time Alignment Pro

Crossover Pro

Parametric EQ Pro

AV Matrix Selector

5V preamp output

MOSFET 50W x 4



Dimensions (W x H x D)
6-15/16" x 1-7/16" x 6-5/16"
175 x 36.5 x 160mm

DCU105



5.1ch. Decoder/AV Matrix Unit

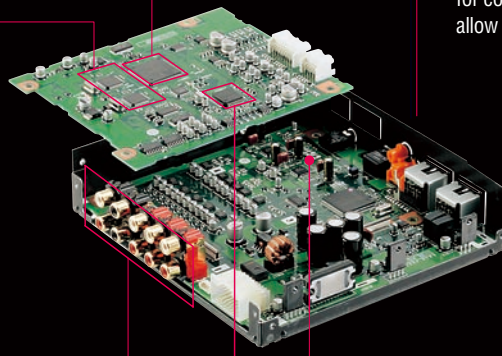
Multi-function 24-bit Dolby decoder

The multi-function 24-bit Dolby decoder incorporates Dolby Digital 5.1 ch. and dts 5.1 ch. functions as well as Dolby Pro Logic II.

24-bit DSP for audio processing (Parametric EQ, Time Alignment, Crossover, etc.) handles all audio tasks and offers comprehensive parameters for customizing audio to user preferences.

Digital inputs

for coaxial and optical signals allow easy interfacing.



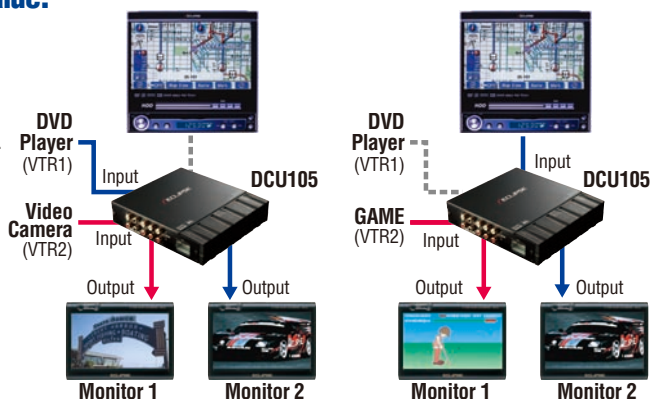
Gold-plated RCA pin connectors

AV Matrix IC

Advanced 24-bit DAC

Versatility increases entertainment value.

When the AVN7000 is used with the DCU105, different program sources can be viewed simultaneously for dual zone operation. With navigation on in front, DVD-Video can be playing for one rear passenger while another can watch video playback from a video camera or play a game. The same DVD-Video can be enjoyed in the front and rear with the other passenger enjoying another program source. The optional TV Tuner can also be added.



Audio

High-end performance comparable to dedicated components.

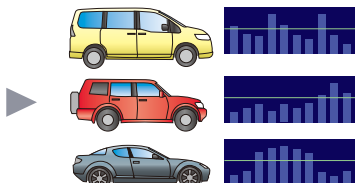
AVN7000 + DCU105—Precision tonal contouring for accurate sound.

Parametric EQ Pro

The professional EQ method for tuning a system's frequency response because of its absolute versatility and precision control. It smooths out system response, eliminating troublesome frequency peaks and dips.



Test microphone picks up the system's frequency response.



Each vehicle type has its own acoustic environment. System frequency response is precisely adjusted manually for an ideal flat frequency response.



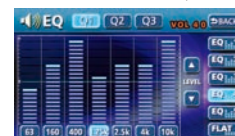
To suit preferences and music genres, up to five sets of user-configured PEQ settings can be preset and stored in memory for instant recall.

AVN7000

Normal Mode

Perform easy audio customization using the AVN7000 by itself.

7-band Parametric EQ

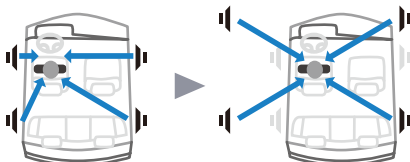


Simpler parametric equalization function can adjust the "Q," i.e. bandwidth, of each of the 7 center frequencies from wide to narrow in 3 steps.

AVN7000 + DCU105—Optimizing for the best audio performance.

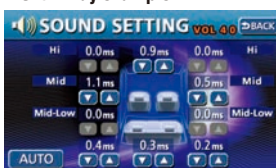
Time Alignment Pro

If sound from all the speakers arrives at the ears simultaneously, it is more natural sounding. Time delay can be adjusted to achieve identical arrival times.



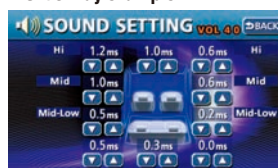
Sound from speakers in different locations arrive at the listener's ears at all different times. Speakers are electronically processed with varying time delays to ensure all the sound is heard at the same time no matter how the speakers are positioned.

Front 1-way example



Fullrange speakers can be time-aligned automatically with the AUTO setting. One single push is all that's needed for the whole process.

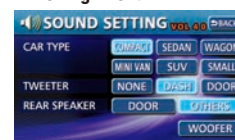
Front 3-way example



Complex to perform manually, optimal delay settings can be adjusted automatically for the various speakers in the system for true time alignment. For experienced users, more tweaking is possible in the manual mode.

AVN7000

Time Alignment

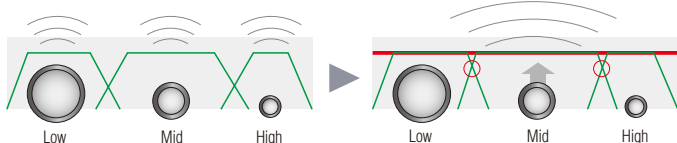


A simpler time alignment performed by selecting the car type and speaker positions, then adjusting each speaker level. Delay parameters are then adjusted for a time-aligned response.

AVN7000 + DCU105—Wide-bandwidth, perfectly balanced sound.

Crossover Pro

Multiple speakers are necessary for wide bandwidth sound since each speaker covers a limited frequency range. A speaker must smoothly 'crossover' to the next speaker, making the overall system sound as if it was coming from a single source.



Discontinuities between speaker units can be heard.

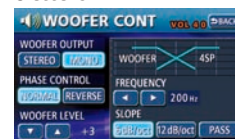
Integrating the sound from different speakers into an organic, whole sound that's more natural and lifelike.



Adjusting a crossover point's frequency, rolloff using "slopes" from bandpass to 6/12/18/24dB/octave and level settings.

AVN7000

Crossover



The crossover point for the subwoofer response can be switched in/out of phase to blend better with the rest of the speaker system.

Enables optimal listening.

Listening Position Selector

This function compensates for any seating position, optimizing system response for that position as if it was in the perfect sweet spot for listening as in a home audio system.



For adjusting the overall system-wide balance.

Fader and Balance

Easy directional controls and a visual indicator make it easy to set system-wide balance in any direction to suit user preferences.



E-iSERV (AVN7000 + DCU105)



This is where E-iSERV starts!
www.eclipse-web.com

ECLIPSE allows users to access the E-iSERV server online and optimize the system response for a specific vehicle and allow precise audio customization over parameters.



Pink noise is fed into the system and the system's test microphone measures the response. The response is downloaded to a Memory Stick Duo.



E-iSERV is accessed with a PC and the data on the MS is input into E-iSERV.



When the MS Duo is again inserted into the AVN7000, the new settings result in an ideal system response.

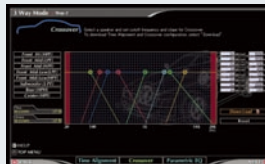
E-iSERV

Parametric EQ



E-iSERV examines all available data and automatically creates an optimum parametric EQ setting which is again downloaded onto the MS Duo.

Crossover



Time Alignment

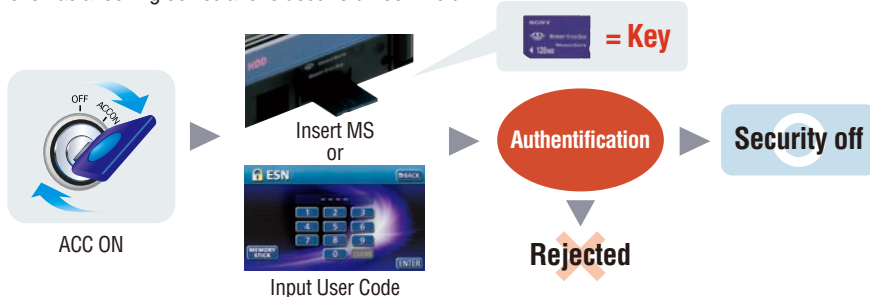


E-iSERV makes it possible to achieve that same high level of audio customization for Time Alignment and Crossover settings. Together, the E-iSERV-optimized settings allow a user to enjoy a customized overall response.

Twin Security System

ESN

With the engine switched off, ESN can be activated to deter AVN7000 tampering and flashes as a deterrent warning ESN is operating. A Memory Stick Duo can be designated to function as a locking device and is used to unlock the unit.



Detachable front panel

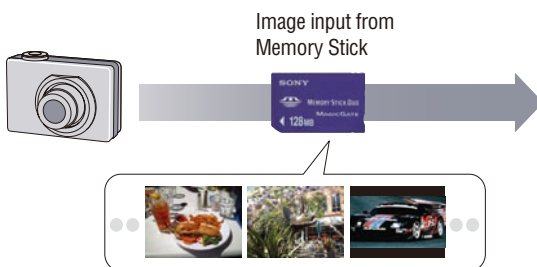


The front panel detaches and is compact enough to be very portable, allowing users another level of security and deterrence.

Other customization features

Pic-Clip

This function allows changing the default image as well as selecting custom images.



Direct image data reading from DCIM folder.

Full-featured entertainment technology that satisfies.

Whatever you choose to make driving more enjoyable, music or video, the AVN7000 offers the specialized functions and features that make sure you get the best performance.

Versatile 7" wide display

Responsive to a fingertip touch, the sharp TFT display provides high resolution viewing optimized for navigation as well as DVD-Video. For entertainment viewing, the aspect ratio can be switched to any of four settings as desired.



DVD/CD player

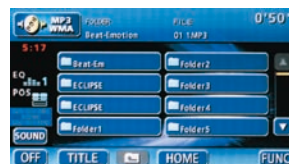
ECLIPSE's DVD/CD-compatible mechanism is optimized for the mobile environment, featuring rugged construction, extensive damping and a large memory buffer along with precision tracking. With the addition of the DCU105 AV Matrix, DVD enjoyment becomes genuine theater quality with 5.1 ch. surround sound. Even non-multichannel programs and CDs can be upmixed for 5.1 ch. surround sound.

DVD dual play

While radio broadcasting or music from connected external sources such as a CD changer or memory stick can be enjoyed on the AVN7000 with sound from all speakers, the AVN7000 can also be playing a DVD-Video for rear seat passengers who can listen to it through headphones connected to the rear displays.

MP3 and WMA files

All the convenience of digital music files can be enjoyed with the AVN7000. A Multi-Harmonizer function makes sure these files always sound their best by restoring harmonic data lost during the encoding process.



FM/AM tuner

ECLIPSE's long-proven tuner section provides outstanding performance for terrestrial broadcasting sources with excellent reception even in problem areas.

Optional TV tuner

The TVR105 is available for enjoying all terrestrial television broadcasting channels, featuring excellent reception. The clarity of the display and excellent sound of the AVN7000 make in-car TV watching highly enjoyable.

Rear monitor-ready

The AVN7000 can handle the demands of providing different program material so that adding rear monitors becomes a worthwhile option for offering more entertainment for everybody in the vehicle.

Options that increase AVN7000 enjoyment.

Watch your favorite programs.



TVR105
TV Tuner Unit

Simply add the TVR105 to be able to watch all terrestrial TV broadcasts.

Dimensions (W x H x D)
5-15/16" x 1-3/16" x 4-3/16"
150 x 30 x 105.2mm

Create a mobile music library.



CH3083
8-Disc CD Changer
with Magazine Unit

CD Changer-ready

Functioning as an immense mobile jukebox with storage for 8 CDs, the CH3083 is ideal for increasing music content as it is also compatible with CD-R/RW discs.

Take the hassle out of backing up.



BEC104
Rear View Camera



Rear view camera-ready

The BEC104 optional rear camera can be connected to the AVN units to facilitate parking.

More convenience at hand.



RMC105
Wireless Remote

Remote control-ready
Optional new ergonomic design remote enhances operation.

Get the most from terrestrial broadcasting.



HDR105
HD Radio Tuner Unit

Dimensions (W x H x D)
6-15/16" x 1-7/16" x 6-5/16"
175 x 36.5 x 160mm



Enjoy the immense content satellite radio provides.



SIR-ECL1
ECLIPSE COMPATIBLE
SIRIUS SATELLITE RADIO TUNER

Dimensions (W x H x D)
4-15/16" x 1-7/16" x 4-3/16"
125 x 35 x 105mm



Features List

Media	
HDD	1.8~ 20GB
DVD	○
CD	○*1
Memory Stick Duo	○*2
Navigation	
Navi Device	
HDD Navigation	○
Ultima Engine	○
Displaying	
Display	7" EGA
Map colors	32,768 colors
Split screen	○
Street name	○
Point-of-Interest (POI)	3,999,442 points
Landmark	22,767 points
Operation	
Touch panel control	○
Searching	
Address search	○
POI Name	○
POI Category	○
Emergency search	Hospital/Police
Memory search	100 points
Previous search	100 points
Map search	○
Intersection search	○
Freeway search (ENTER/EXIT)	○
Coordinates search	○
Telephone number search	○
Home search	○
Quick access point search	5 points
Routing	
3 routes information	○
Detours	10 areas
Enroute stopping points	5 points
Route preview	○
Assistance	
Voice announcement	English/French
Voice announce switch L/R	○
Voice announce volume control	8 steps
Intersection zooming	○
Freeway guidance	○
Auto rerouting	○
Estimated arrival time	○
Entertainment	
Preset wallpaper (still images/moving images)	5 patterns/5 patterns
Pic-CLIP	100 images*3
Welcome screen	○
Security	
ECLIPSE Security Network	○
Detachable front panel	○
Other	
Select User	3 persons

AUDIO	AVN7000 only	DCU105 connected	
		Front-1 way system	Front-3 way system
DVD			
DVD-Video		○ (Single/Dual Layer)	
DVD-R/RW, DVD+R/RW ^{*4}		○ (Single/Dual Layer)	
Dolby Digital 5.1 ch.	—		○
dts 5.1 ch.	—		○
Dolby Pro Logic II	—		○
CD			
CD		○	
CD-R/RW		○	
MP3		○	
WMA		○	
MS			
ATRAC3		○ (Magic Gate Memory Stick Duo)	
Audio function			
Time Alignment	Car type: 6 types, Speaker position: Tweeter Rear SP	Front (L/R), Rear (L/R), Center, Subwoofer	F-Hi (L/R), F-Mid (L/R), F-ML (L/R), R (L/R), Center, Subwoofer
Parametric EQ	7 bands	F/R/C: independent 5 bands, SW: 1 band	
Crossover	○	F (HPF)/R (HPF)/ C (HPF)/SW (LPF)	F-Hi (HPF), F-Mid (HPF/LPF), F-ML (HPF/LPF), R (HPF), SW (LPF)
Multi-Harmonizer		MP3/WMA/ATRAC3	
Listening Position selector		FR, FL, F, R, OFF	
Non Fader Level/Phase control		○	
Woofer output		Stereo/Mono	
E-iSERV Connectivity	—	Audio customize	
Audio device			
MOSFET amplifier		50W × 4	
Advanced 24-Bit ΔΣ DAC		○	
Pre Amp Output	F/R/NF, 2V	Front/Rear/Center/Subwoofer, 5V	
AV Output	1 pair	2 pairs	
AV Input	1 pair	2 pairs	
Digital Output (Coaxial)		○	
Digital Input (Coaxial)	—	○	
Digital Input (Optical)	—	○	
ANALOGUE RADIO TUNER			
FM		FM1: 6, FM2: 6, FM3: 6	
AM		AM: 6	
OPTIONAL			
HD radio-ready		○	
SIRIUS radio-ready		○	
CD Changer-ready		2 (daisy chain)	
Rear View Camera-ready		○	
TV-Tuner ready		○	
Rear Monitor Input	1	2	
External device Input	1	2	

*1 Ripping not available

*2 Memory Stick Duo is sold separately and compatible with 128MB or under.

*3 100 images can be stored. (each image should be below 2 MB in MS Duo. Only JPEG files are available)

*4 Please refer to Note and Precautions.

Specifications

* Meets CEA2006 guidelines

NAME	AVN7000
GENERAL	
Power output	50W × 4 (MAX)
RMS power output*	13W × 4 (1kHz, 1%THD 4 Ω)
Dimensions (W × H × D)	7" × 2" × 6-1/2" (180 × 50 × 165mm)
Weight	2.3kg
DISPLAY	
Display	7" wide (16:9), low-glare panel
Resolution	336,960 dots (480 × 234 × 3)
Screen aspect ratio	4 types
FM TUNER	
Frequency range	87.75 — 107.9MHz (200kHz step)
Usable sensitivity	19dBf (98.1MHz)

AM TUNER	
Frequency range	530 — 1.710kHz (10kHz step)
Usable sensitivity	22 μ V
CD SECTION	
Frequency response	20 — 20,000Hz \pm 3dB
Total harmonic distortion	0.04% (0dB 1kHz)
MS SECTION	
Frequency response	20 — 20,000Hz \pm 3dB
Total harmonic distortion	0.04% (0dB 1kHz)
EQUALIZER SECTION	
Parametric equalizer	63Hz — 16kHz (25 points) \pm 10dB
HDD SECTION	
Operating temperature range	-10 — 65°C
Storage temperature range	-40 — 85°C

Double-DIN AVN

AVN is the innovative ECLIPSE concept that integrates audio, visual and navigation into a clean, stylish design that graces any car interior.

5V PRE-OUT



SRS **CIRCLE SURROUND II** ESN Mp3 DVD VIDEO DIGITAL DOLBY DIGITAL MEMORY STICK MAGICGATE **gracenote cddb** POWERED BY

AVN5495

ESN E5 6.5" Wide TFT Touch-Panel Display CD/DVD/MS Multi-Source Receiver with HDD Navigation

The AVN5495's large capacity 30GB HDD holds the navigation database as well as the Music Juke feature which automatically stores up to 3,000 tracks from CDs to create a music library. With the on-board HDD, the AVN5495 is able to manage navigation as well as provide DVD-Video or CD entertainment at the same time without any interruption.

Navigation

30GB HDD

6.5" wide TFT display with touch control

- Multiple search modes
- Split screen displays
- Map scale from 150 feet to 250 miles
- Voice announcements and guidance

Audio/Visual

CD/CD-R/RW, MP3

DVD-Video, DVD-R/RW and DVD+R/RW

Dual zone operation

MOSFET 50W x 4

Circle Surround II

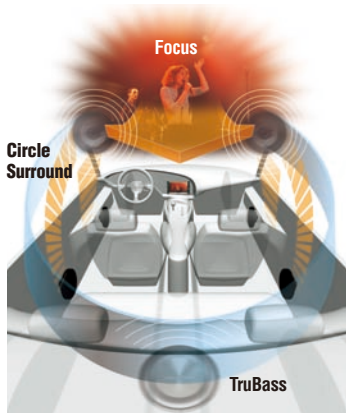
3,000 track Music Juke

CDDB-enabled

- FM/AM tuner
- Advanced 24-bit $\Delta\Sigma$ DAC
- High-performance DSP:
 - 5-mode soundfield control
 - 9-band EQ
 - Listening position selector
- 5V preamp output
- CD Changer-ready (2 units)
- Memory Stick-ready
- Rear view camera-ready
- Video output for rear monitor
- E-LAN data link system
- MS ESN security

Circle Surround II (AVN5495) **SRS CIRCLE SURROUND II**

Circle Surround II is an ideal multi-feature audio enhancement technology for mobile environments. **Circle Surround** will mix any program material to create surround sound on conventional 4-speaker systems. **Focus** raises the stereo soundfield and makes it sound as if the sound was being generated from in front of the listeners. **TruBass** allows small speakers to be perceived as putting out impressive low frequencies.



5V PRE-OUT



ESN Mp3 DVD VIDEO DIGITAL DOLBY DIGITAL HD Radio SIRIUS READY

AVN5435

ESN E5 6.5" Wide TFT Touch-Panel Display CD/DVD Multi-Source Receiver with DVD Navigation

Providing all the most in-demand AVN features in a twin CD and DVD deck mechanism configuration, the AVN5435 can navigate and entertain at the same time without interruption. The AVN5435 offers top-of-the-line AVN performance at an attractive price.

Navigation

2 deck mechanisms

6.5" wide TFT display with touch control

- Multiple search modes
- Split screen displays
- Map scale from 150 feet to 250 miles
- Voice announcements and guidance

Audio/Visual

CD/CD-R/RW, MP3

DVD-Video, DVD-R/RW and DVD+R/RW

MOSFET 50W x 4

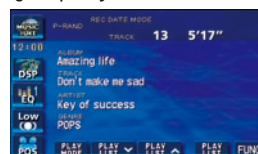
SIRIUS Satellite Radio-ready

HD Radio-ready

- FM/AM tuner
- Advanced 24-bit $\Delta\Sigma$ DAC
- High-performance DSP:
 - 5-mode soundfield control
 - 9-band EQ
 - Listening position selector
- 5V preamp output
- CD Changer-ready (2 units)
- Rear view camera-ready
- Video output for rear monitor
- E-LAN data link system
- ESN security

Music Juke (AVN5495)

Having a 30GB HDD allows incorporating Music Juke that automatically creates an onboard music library of approximately 3,000 songs. Every song on every disc inserted into the AVN5495 is automatically ripped until the maximum storage capacity is reached.



CDDB-enabled (AVN5495)

POWERED BY **gracenote cddb**

As Music Juke is Gracenote CDDB-enabled,

each track of a CD that is being played is matched to the CDDB database to allow relevant track information to be displayed.

Options

HD Radio-ready AVN5435

AVN5435 will deliver all the potential of HD Radio-enhanced broadcasts simply by connecting the optional HDR105 HD Radio Tuner.



HDR105
HD Radio Tuner Unit

SIRIUS Satellite Radio-ready AVN5435

The AVN5435 is able to take advantage of all the benefits of satellite broadcasting. The optional ECLIPSE SIR-ECL1 satellite radio tuner can be easily connected for enjoying this exciting new entertainment.



SIR-ECL1
ECLIPSE COMPATIBLE SIRIUS SATELLITE RADIO TUNER

CD Changer-ready

Functioning as an immense mobile jukebox with storage for 8 CDs, the CH3083 is ideal for increasing music content as it is also compatible with CD-R/RW discs.



CH3083
8-Disc CD Changer
with Magazine Unit

Rear view camera-ready

The BEC104 optional rear camera can be connected to the AVN units to facilitate parking.

BEC104
Rear View Camera



Remote control-ready

Optional new ergonomic design remote enhances operation.

RMC105
Wireless Remote



Rear monitor-ready

Allows rear passengers to enjoy movies.

Feature List

	AVN5495	AVN5435
Navigation	●	●
HDD	●	—
Database	Jun.04	—
Size	30GB	—
DVD	—	●
Database	—	Dec. 03
Size	—	8.5GB
Searching		
Address search	●	●
Map search	●	●
Emergency	●	●
Point-of-Interest (POI)	●	●
POI near search	●	—
Memory search	●	●
Previous search	●	●
Intersection search	●	●
Freeway search	●	●
Coordinates search	●	●
Home search	●	●
Telephone number search	●	—
Routing/Guidance		
3 routes	●	●
Must travel	●	●
Detour Input	●	●
Enroute stopping points	●	●
Route preview	●	●
Auto rerouting	●	●
Voice announcements	●	●
Freeway interchanges	●	—
Exit displays	●	—
Landmark/POI displays	●	●
Split screen function	●	●
Zooming	●	●

	AVN5495	AVN5435
Audio		
CD	●	●
CD-R/RW	●	●
MP3	●	●
Output voltage and impedance	5V, 55Ω	5V, 55Ω
Amplification	●	●
Power Output (Max.)	50W × 4	50W × 4
Music Juke	3000 tracks w/CDD	—
All digital circuitry	●	●
Advanced 24-bit ΔΣ DAC	●	●
Source Volume Control (SVC)	●	●
Circle Surround II	●	—
Tone controls	●	●
Graphic EQ	9 band	9 band
Soundfield Control	5 mode	5 mode
Preamp outputs	3 pairs (F, R, NF)	3 pairs (F, R, NF)
FM/AM	●	●
Visual		
DVD-Video	●	●
DVD-R/RW	●	●
Display	6.5"	6.5"
Aspect Ratio	4-types	4-types
Resolution	280,800 dots	280,800 dots
Video system	NTSC	NTSC
Others		
ESN	MS	CD
SIRIUS Radio-/HD Radio-ready	—	●
Rear View Camera-ready	BEC104	BEC104
CD Changer-ready	2 (daisy chain)	2 (daisy chain)

Specifications

* Meets CEA2006 guidelines

	AVN5495	AVN5435
14.4V Power Supply		
Max. Power Output	50W × 4	
RMS Power Output*	15W × 4 (1kHz, 1%, 4Ω)	
Display	6.5" wide (16:9), low-glare panel	
Display Resolution	280,800 dots (400 × 234 × 3)	
Screen Aspect Ratio	4 types	
FM Frequency Range	87.75 — 107.9MHz (200kHz step)	
Usable Sensitivity	12dBf	
AM Frequency Range	530 — 1710kHz (10kHz step)	
Usable Sensitivity	22μV	
CD Frequency Response	20 — 20,000Hz, ±1dB	
Total Harmonic Distortion	0.01% (0dB, 1kHz)	
Graphic Equalizer	63Hz — 12kHz ±10dB	
Dimensions (W × H × D)	7" × 4" × 6-1/2" (180 × 100 × 165mm)	
Weight (approx.)	3.6kg	3.7kg

AVX Series

For the ultimate in mobile entertainment, the AVX Series offers various configurations and features to select from depending on user requirements. Each offers a brilliant combination of audio and visual technologies that demonstrate ECLIPSE's commitment to enjoyable driving.



AVX5000

DVD/MS Multi-Source Receiver with 7" Wide TFT Display



CD/CD-R/RW, MP3, WMA
DVD-Video, DVD-R/RW and DVD+R/RW
Circle Surround II
Memory Stick Duo
MOSFET 50W x 4
5.1 ch. surround sound (with DCU105)
E-iSERV connectivity
TV Tuner-ready
SIRIUS Satellite Radio-ready

- FM/AM tuner
- Advanced 24-bit $\Delta\Sigma$ DAC
- High-performance DSP:
 - Parametric equalizer
 - Time alignment
 - Crossover
 - Listening Position Selector
- 5V preamp output (with DCU105)
- CD Changer-ready (2 units)
- HD Radio-ready
- Picture lock
- DVD dual play
- Wallpaper
- Twin security system

Designed to deliver the best from any entertainment medium.

The AVX5000 delivers all the features and functions that raise the quality of entertainment, whether music or visual. It makes generous use of audiophile grade circuits and components that make an audible difference in sound quality. Its already high

level of performance goes up an entire level when partnered with the optional DCU105 Audio Video Matrix that adds full surround sound features as well as providing versatile signal routing capabilities that make it easy to expand a system.

Elegantly integrates into any car's cockpit design.

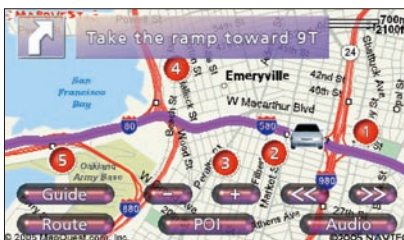
The design of the AVX5000 makes it complement any interior design. Its matte black finish along with translucent acrylic panel and silver design accents creates an understated, sophisticated look.

NEW Area Shot

The Area Shot feature has been newly refined to offer more assistance for travel routes. Now map displays are in full-color and up to 5 POIs can be shown. Location displays can now conveniently be viewed with 3-step zoom in ability.



Routes can be set by accessing ECLIPSE's E-iSERV server. Map data is then downloaded onto a Memory Stick Duo which can be input into the AVX5000.



Location displays have 3-step zoom viewing ability.

Note: Area Shot is convenient for reviewing the route. However, the car must not be in motion when using Area Shot. GPS option for AVX5000 allows current position to be displayed. NAVTEQ ON BOARD is a trademark of NAVTEQ.

High-performance audio functions and features

DCU105 Audio Video Matrix

Partners the AVX5000 to provide 5.1 ch. surround sound for surround-encoded material as well as upmixing 2-channel sources to surround as well as expanding connectivity and flexible routing of multiple program sources.



DCU105

5.1ch. Decoder/AV Matrix Unit



Dolby Digital 5.1 ch.

dts 5.1 ch.

Dolby Pro Logic II

Time Alignment Pro

Crossover Pro

Parametric EQ Pro

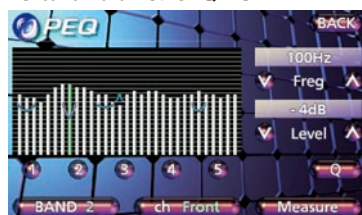
AV Matrix Selector

5V preamp output

MOSFET 50W x 4

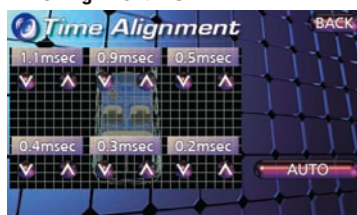
AVX5000 + DCU105—Comprehensive audio customization

10-band Parametric EQ Pro



Professional equalization to capably optimize a vehicle's interior, removing troublesome frequency peaks and dips to create a flat frequency response.

Time Alignment Pro



Adjusts time delay so sound from all speakers reaches the listener simultaneously for more natural sound. Easy AUTO mode for one-touch adjustment.

Crossover Pro



Allows precisely blending speaker-to-speaker response by setting frequency crossover points and adjusting rolloff, creating a better-balanced system response with better sound.

AVX5000—Standard operations

7-Band Parametric EQ



Simpler but effective PEQ method allows quickly creating a satisfactory acoustic environment to suit program material.

Time Alignment



Easy preset parameter groupings can be selected and adjusted for a time-aligned system response that results in better sound quality.

Crossover

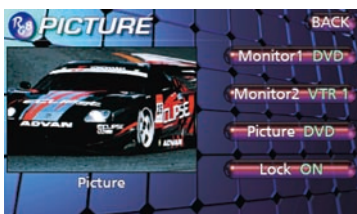


Makes it simple to optimize setting up a subwoofer with a 4-speaker system to extend the system's frequency bandwidth.

Others

Picture lock function

The DCU105 allows the AVX5000 to be playing a CD with the front display in music mode and show visual content from an external program source being input into the DCU105.



DVD dual play

While radio broadcasting can be enjoyed on the AVX5000 with sound from all speakers, the AVX5000 can also be playing a DVD-Video for rear seat passengers who can listen to it through headphones connected to the rear displays.





AVX2494



6.5" Wide TFT Touch Panel VGA Display CD/DVD/MS Multi-Source Receiver with 20GB HDD for Music Juke

Incorporating a 20GB HDD for immense music file storage as well as a brilliant VGA display, the AVX2494 offers the best of entertainment for audio and visual.

Audio/Visual

CD/CD-R/RW, MP3
DVD-Video
6.5" TFT VGA display with touch control
20GB HDD
3,000 track Music Juke
CDDB-enabled
40W x 4

- Memory Stick-ready
- FM/AM tuner
- High-performance DSP:
 - 5-mode soundfield control
 - 9-band EQ
 - Listening position selector
- CD Changer-ready (2 units)
- Rear view camera-ready
- E-LAN data link system

Music Juke AVX2494

Holding up to 3,000 song files, Music Juke automatically starts creating a music library, adding songs every time a CD is played. Perfect for enjoying your favorite music on long road trips.



CDDB-enabled AVX2494

Each CD track automatically displays the track information such as song title and artist thanks to the Gracenote CDDB feature which contains a database of approximately 230,000 songs.

Stunning VGA display AVX2494

The Video Graphics Array (VGA) display has image quality that satisfies the most discerning viewers. Visibly superior to EGA displays, VGA displays are often used in demanding computer applications. Dedicated high speed graphics processing is also used for improved performance. With a resolution of 1,152,000 dots, the AVX2494's display is capable of true high-resolution and image definition.



AVX2404

Hi-Power CD/DVD/MS Receiver with 5.8" Touch-Panel TFT Display and MP3/5.1 Decoder

An incredible performer, the AVX2404 is ready to offer any entertainment required. The most popular audio-dedicated formats as well as DVD-Video combine with 5.1 ch. surround sound for satisfying any desire.

Audio/Visual

CD/CD-R/RW, MP3
DVD-Video
5.8" TFT display with touch control
MOSFET 50W x 4
5.1 ch. surround sound
Multi window

- Memory Stick-ready
- FM/AM tuner
- Advanced 24-bit $\Delta\Sigma$ DAC
- High-performance DSP:
 - 5-mode soundfield control
 - 7-band EQ
 - Listening position selector
- CD Changer-ready
- Video input/output
- Wallpaper selectable
- Rear view camera-ready
- E-LAN data link system

5.1 Multichannel Sound AVX2404

Featuring a 5.1 decoder for dts 5.1 ch. and **Dolby Digital 5.1 ch.** encoded material so as to deliver true theater-quality multichannel surround sound, the AVX2404 delivers all the audio content of surround-encoded program material, making sure DVD-Video program sources are heard the way they were meant to. All spatial cues and sound effects are accurately reproduced with dialog that is crisp and easily heard.





AV3424

ESN E3 7" Wide TFT "Touch Panel" Display DVD Multi-Source Receiver with MP3 Decoder

The full-featured AVX3424 offers more value and versatility than most conventional entertainment-focused head units. In particular, its DVD-Audio playback capability allows these high-resolution audio discs with their outstanding sound quality to be enjoyed.

Audio/Visual

CD/CD-R/RW, MP3

DVD-Video, DVD-Audio

7" TFT display with touch control

2.7V preamp output

- FM/AM tuner
- CD Changer-ready
- Rear view camera-ready
- E-LAN data link system
- ESN security

Options

TV Tuner unit-ready

Simply add the TVR105 to be able to watch all terrestrial TV broadcasts.

Optional for: AVX5000



TVR105
TV Tuner Unit

GPS unit-ready

Connects to compatible AVX unit for use with Area Shot to enhance its features.

Optional for: AVX5000



GPS105
GPS Unit



HDR105

HD Radio Tuner Unit

Optional for: AVX5000



SIR-ECL1

ECLIPSE COMPATIBLE
SIRIUS SATELLITE RADIO TUNER

Optional for: AVX5000

CD Changer-ready



CH3083
8-Disc CD Changer
with Magazine Unit

Remote control-ready



RMC105
Wireless Remote

Rear view camera-ready



BEC104
Rear View Camera

AEX403

Extension code (4 meter)

Optional for: AV3423/AV3424/AV8533

For use when an extra-long cable is required for installations.

Specifications

* Meets CEA2006 guidelines

	AVX5000	AVX2494	AVX2404	AV3424
14.4V Power Supply	50W × 4	40W × 4	50W × 4	
Max. Power Output	15W × 4 (1kHz, 1% THD, 4Ω)	12W × 4 (1kHz, 1% THD, 4Ω)	14W × 4 (1kHz, 1% THD, 4Ω)	
RMS Power Output*				
Display	7" wide (16:9), low-glare panel	6.5" wide (16:9), low-glare panel	5.8" wide (16:9), low-glare panel	7" wide (16:9), low-glare panel
Display Resolution	336,960 dots (480 × 234 × 3)	1,152,000 dots (800 × 480 × 3)	280,800 dots (400 × 234 × 3)	
Screen Aspect Ratio	4 types		3 types	4 types
FM Frequency Range	87.75 — 107.9MHz (200kHz step)			
Usable Sensitivity	15dBf		13dBf	
AM Frequency Range	530 — 1710kHz (10kHz step)			
Usable Sensitivity	24μV	22μV		28μV
CD Frequency Response	20 — 20,000Hz, -2±2dB — 0±2dB		20 — 20,000Hz, 1dB	
Total Harmonic Distortion	0.03% (0dB, 1kHz)	0.03% (0dB, 1kHz)		0.02% (0dB, 1kHz)
Equalizer	Parametric: 63Hz — 16kHz±10dB, (25points)	Graphic: 63Hz — 12kHz, ±10dB		—
Dimensions (W × H × D)	7" × 2" × 6-1/2" (180 × 50 × 165mm)	7" × 4" × 6-1/2" (180 × 100 × 165mm)		7" × 2" × 6-1/2" (180 × 50 × 165mm)
Weight	2.2kg	3.1kg	2.8kg	2.4kg

***Priority on music.
Refining audio performance
to the maximum.***



ECLIPSE CD Receivers have earned excellent reputations since their introduction. Fully self-contained with 4-channel power amplification and designed to provide the maximum performance from optical disc sources, the series has been constantly refined with new technologies and important new features.

Audio

The new CD Receiver line delivers outstanding audio performance across the board for each model.

Circle Surround II



This technology enhances in-car listening enjoyment with a powerful combination of three functions. **Circle Surround** generates surround sound from any audio source such as CDs, MP3s, WMA files and radio broadcasts with just four speakers. **Focus** raises the stereo soundfield, making the sound appear to be coming from directly in front at ear level. Its use complements surround sound to create a rich, enveloping soundfield. **TruBass** is technology based on psychoacoustics and scientific knowledge of the human hearing system to generate bass sounds extending lower than a small speaker's response so that a subwoofer is not required.

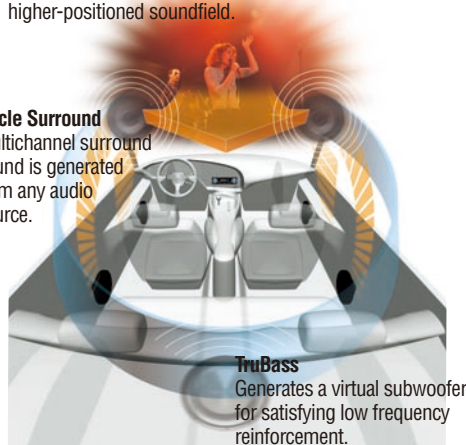


Focus

Generates virtual speakers that create a front-firing, higher-positioned soundfield.

Circle Surround

Multichannel surround sound is generated from any audio source.



CD8455 (Pro off), CD8445 (Adv. on)

High voltage and low impedance output

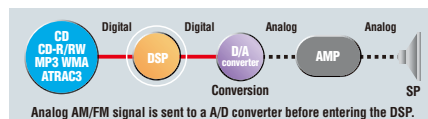
High-end audio products usually are engineered to have preamp outputs that have high voltages along with low impedances. These characteristics are desirable from an audio electronics point of view as they enable driving downstream amplifiers optimally to reap other benefits such as a higher signal-to-noise ratio and increased dynamics. Each CD receiver ensures any connected external amplifier will deliver optimal performance.

CD8455/8445: 8V at 55Ω

CD5435/5425/5415/5405: 5V at 55Ω

Advanced 24-bit $\Delta\Sigma$ D/A converter

Digital circuits benefit from signals staying in the digital domain as long as possible, helping to minimize distortion and noise. All signal processing in the CD Receivers remains entirely in the digital domain until the last stage prior to power amplification. The final level of audio performance also relies on high-performance digital to analog conversion. As this process greatly influences final sound quality, a proprietary DAC is utilized so distortion is minimized and S/N ratio stays high.



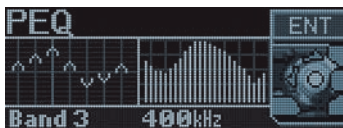
CD8455/8445

High-performance DSP

Featured in the CD8455 and CD8445, this single sophisticated chip contains the Parametric EQ, Multi-Harmonizer, Time Alignment and Crossover functions as well as level.

Parametric EQ

This sophisticated equalization method is the best for achieving a smooth, well-balanced in-car system frequency response that overcomes the frequency peaks and dips often encountered in automobile environments due to the combination of hard, reflective surfaces and soft, absorbing surfaces. Parametric EQ allows selecting a frequency band as well as bandwidth for an even system response.



CD8455, CD8445 (Adv. on)

3-band Graphic EQ

An additional EQ method to adjust the tonal characteristics of program material to suit user preferences.

CD5435/5425/5415/5405



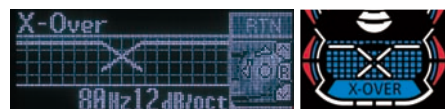
Time Alignment

Electronic delay lines make sure the sounds from all the speaker units arrive at the listener's ears simultaneously for a much more natural sound with improved imaging.

CD8455, CD8445 (Adv. on)

Crossover

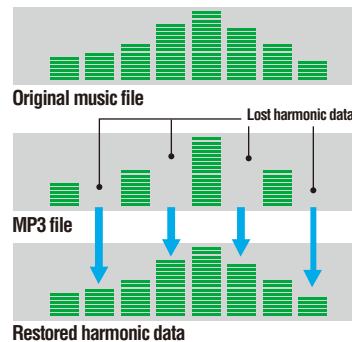
To create a smoother system response in a multi speaker system, the frequency point and slope can be tweaked for each speaker.



CD8455/8445/5435/5425

Multi-Harmonizer

Digital music files in formats such as MP3, WMA and ATRAC3 lose harmonic data during encoding because compression is applied. Multi-Harmonizer restores the lost harmonic data, allowing files to sound much better.



CD8455/8445

MOSFET 50W \times 4 power amplification

MOSFET devices are used for power amplification due to their desirable characteristics — drawing less current and requiring less power — as well as providing a more natural sound.

All Units

AUX Input

When connecting external sources, the AUX input has adjustable sensitivity for perfect matching to cut extraneous noise and improve S/N ratios.

CD8455/8445/5435, CD5425 (optional)

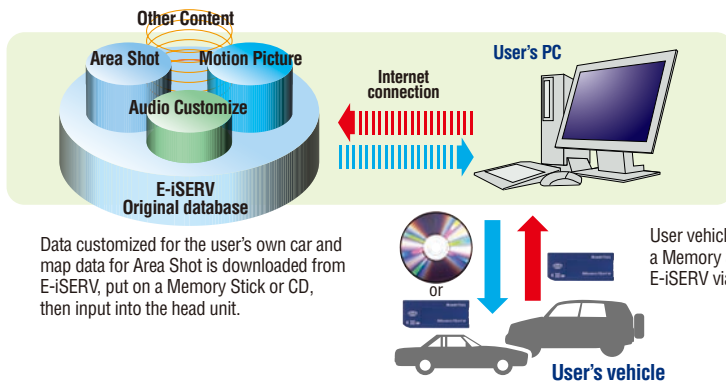


This is where E-iSERV starts!
www.eclipse-web.com

E-iSERV advances

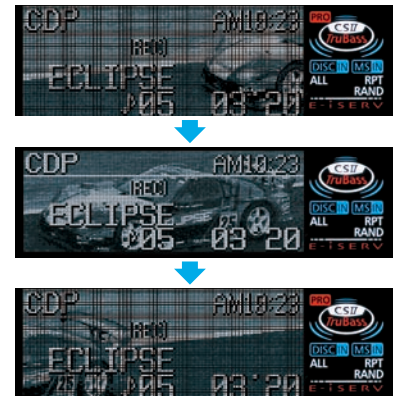
ECLIPSE's E-iSERV has raised user customization to a new level that many thought could not be done. By using the internet and a personal computer, the user can access

functions and features that can optimize in-car system response and provide map guidance, along with customizing displays and enhanced control abilities.



Motion Picture

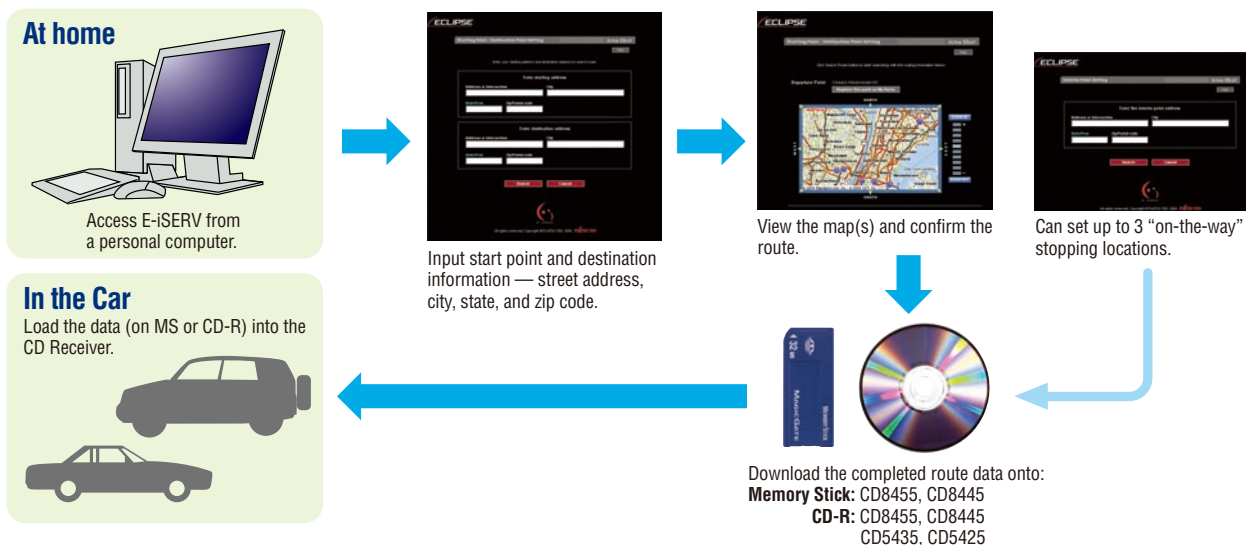
Customization for the display panel in the CD8455 and CD8445 is possible. The proprietary "cutting board" application can be downloaded and up to 100 favorite images can be put together to create an up to 10 sec. animated sequence.



Area Shot

Adding value to CD Receivers with map viewing and route assistance, this feature allows searching for a destination and downloading the

route to get there. Once the data has been input into the CD Receiver, it can be viewed to confirm the route.

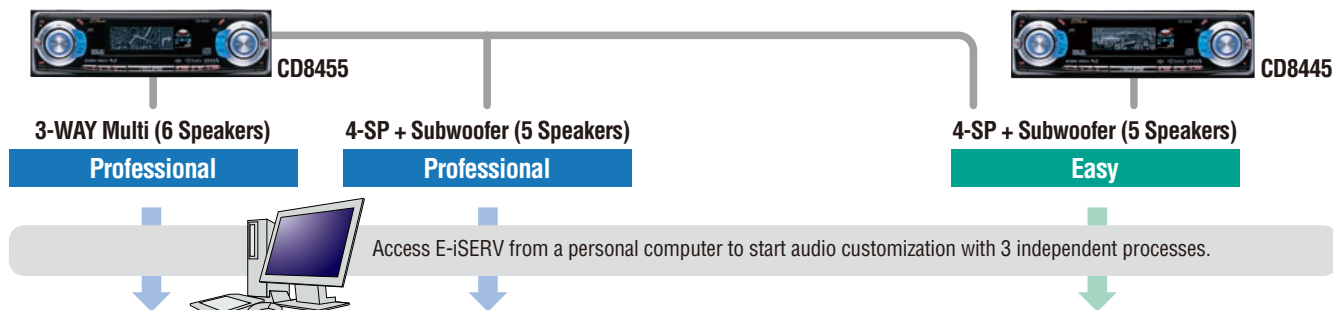


Map data display examples



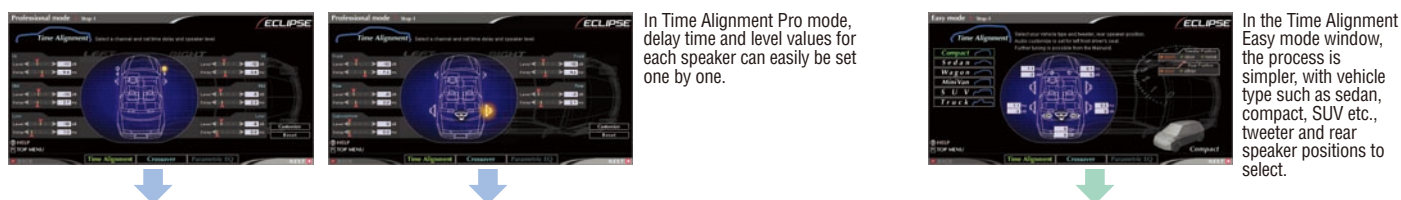
Note: Area Shot is convenient for reviewing the route. However, the car must not be in motion when using Area Shot. GPS option for CD8455 and CD8445 allows current position to be displayed.

Audio Customize



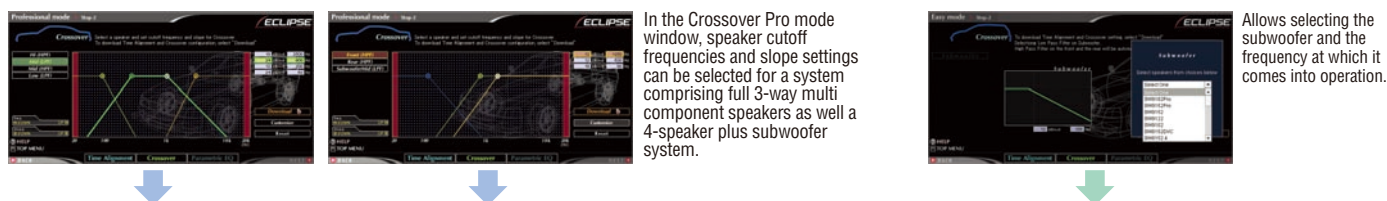
Time Alignment

Optimizes system response by manipulating the arrival times of sounds from various speakers positioned in different locations to arrive at a listener's ears simultaneously, creating better imaging. Initial adjustment starts with selecting a mode.



Crossover

Allows selecting the frequency points where one speaker component's response crosses over to another driver. The goal is to achieve a smooth, natural response across the entire frequency spectrum, without speaker discontinuities.



The data from the two customization procedures above can then be downloaded to the user's computer where it can be put on a Memory Stick which can then be inserted into the CD Receiver.

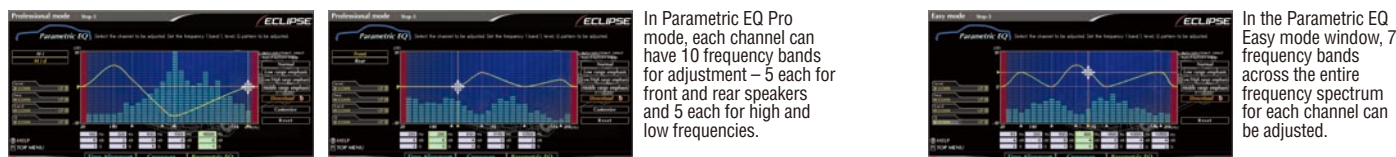


Once the CD Receiver has received the data it will run a frequency analysis. This data is then downloaded to an MS so that it can be sent to E-iSERV via a PC.



Parametric EQ

Defeats a car's interior acoustic anomalies that cause significant peaks and dips in the overall frequency response with precise equalization control that can pinpoint problem frequencies.



The optimized parametric EQ settings can now be downloaded onto a Memory Stick which again can be inserted into the CD Receiver that automatically makes the necessary changes. Now the user's car optimization process is complete.

CD Receivers

Catering to dedicated audio-only requirements, ECLIPSE's CD Receivers have been redesigned to offer a significantly higher level of performance along with new and upgraded features.

The CD8455 and CD8445 have all the features and performance to satisfy the most discerning music lover. Able to extract the best performance from CD, CD-R/RW, WMA and MP3 music files, both units demonstrate exceptional audio quality and user convenience. ECLIPSE's innovative interactive E-iSERV can be accessed to achieve results that previously required trained technicians with test equipment.



ESN WMA MP3 HD Radio



ESN WMA MP3 HD Radio

NEW CD8455 MOSFET 50W × 4 (max.) NEW CD8445 MOSFET 50W × 4 (max.)

ESN E8 High-Power "Pro Customize" CD/MS Receiver with MP3/WMA Decoder and Remote

ESN E8 High-Power "Customize" CD/MS Receiver with MP3/WMA Decoder and Remote

CD/CD-R/RW, MP3, WMA
Circle Surround II
E-iSERV connectivity
Area Shot (basic map, arrow and text)
5-pattern illumination
Motion Picture
SIRIUS Satellite Radio-ready

- Advanced 2-mode Sound Control DSP:
 - Parametric EQ : 10 band (pro mode on)
 - 7 band (pro mode off)
- Time Alignment
- Crossover
- Listening Position Selector

- Multi-Harmonizer
- Source Volume Control
- Memory Stick-ready
- Advanced 24-bit $\Delta\Sigma$ DAC
- High 8V preamp output
- HD Radio-ready
- GPS unit-ready
- FM/AM tuner
- MOSFET power amplification
- 8-step full dot VF display
- MS/CD ESN security
- Digital input
- 3 prs. pre outputs
- Aux input
- Remote control

CD/CD-R/RW, MP3, WMA
Circle Surround II
E-iSERV connectivity
Area Shot (basic map, arrow and text)
5-pattern illumination
Motion Picture
SIRIUS Satellite Radio-ready

- Advanced 2-mode Sound Control DSP:
 - 7-band Parametric EQ (advanced mode on)
- Time Alignment
- Crossover
- Listening Position Selector

- Multi-Harmonizer
- Source Volume Control
- Memory Stick-ready
- Advanced 24-bit $\Delta\Sigma$ DAC
- High 8V preamp output
- HD Radio-ready
- GPS unit-ready
- FM/AM tuner
- MOSFET power amplification
- 8-step full dot VF display
- MS/CD ESN security
- 3 prs. pre outputs
- Aux input
- Remote control

Others

5-pattern illumination

ECLIPSE has added the ability to change a CD Receiver's illuminated colors, allowing the user to select a color combination that complements the car interior or just to vary the color as desired. Illumination can be instantly switched between Blue+Red, Blue+Amber, Blue+Green, All Green and All Red.

CD8455/8445/5435



Blue+Red



Blue+Amber



Blue+Green



All Green



All Red



Vary the CD Receiver's illumination color to enhance the car's interior appearance.

The difficult task of providing the most in-demand features of a head unit in terms of performance and convenience has been met in a spectacular manner with the CD5435 and CD5425 units. Well ahead of any other head units in their class, the CD5435 and CD5425 offer superior performance for handling just about any form of audio optical disc. The CD5435 will also accommodate WMA files.



ESN WMA MP3 COMPACT DISC HD Radio SIRSUS READY READY



ESN MP3 COMPACT DISC HD Radio SIRSUS READY READY

NEW

CD5435 MOSFET 50W × 4 (max.)

ESN E5 High-Power “Full-Face” CD Receiver with MP3/WMA Decoder and Remote

CD/CD-R/RW, MP3, WMA
E-iSERV connectivity
Area Shot (arrow and text)
5-pattern illumination
1-bit DAC
SIRIUS Satellite Radio-ready

- 3-band Graphic EQ
- Crossover
- Source Volume Control
- 5V preamp output
- Bright and clear LCD display
- 5-pattern illumination
- HD Radio-ready
- FM/AM tuner
- MOSFET power amplification
- ESN security
- 3 prs. pre outputs
- Aux input
- Remote control

NEW

CD5425 MOSFET 50W × 4 (max.)

ESN E5 High-Power “Full-Face” CD Receiver with MP3 Decoder

CD/CD-R/RW, MP3, WMA
E-iSERV connectivity
Area Shot (arrow and text)
1-bit DAC
SIRIUS Satellite Radio-ready

- 3-band Graphic EQ
- Crossover
- Source Volume Control
- 5V preamp output
- Bright and clear LCD display
- HD Radio-ready
- FM/AM tuner
- MOSFET power amplification
- ESN security
- 3 prs. pre outputs
- Aux input
- Remote control

8-step full dot VF display

The top models in the CD Receivers line incorporate full dot vacuum fluorescent displays with highly legible alphanumeric characters. There are also eight levels of adjustment to suit user preferences as well as a Bright & Dimmer control for more adjustment.

CD8455/8445

ESN

ECLIPSE's proven theft-deterrent measure uses a user-designated CD or a Memory Stick depending on the CD receiver model to

control system activation. The selected media can be set to be a key device that the system must “see” before it will activate. Without the key device, the system remains locked and will not operate.

All units

E-LAN data link system

ECLIPSE's E-LAN only requires a single cable that carries control signals as well as transmission signals to connect components of a mobile entertainment system. E-LAN also ensures upstream compatibility with future ECLIPSE products.

CD8455/8445/5435/5425/5415

SVC (Source Volume Control)

The fully digital circuitry featured in the new CD Receivers makes it possible to offer functions such as Source Volume Control that can automatically level the volume settings of all sources, eliminating the annoying differences in volume experienced when switching from radio to CD.

CD8455/8445/5435/5425

CD Receivers

These two CD Receivers overturn preconceived ideas of entry level receivers. Designed to deliver the best from the two most popular sources of music today, CDs and MP3s, the CD5415 will please anyone who enjoys listening to music. The CD5405 is more focused on CDs.

5V_{PRE-OUT}



ESN MP3 COMPACT disc HD Radio READY SIRIUS READY

NEW

CD5415 MOSFET 50W × 4 (max.)

ESN E5 High-Power CD Receiver with MP3 Decoder

CD/CD-R/RW, MP3, WMA

1-bit DAC

SIRIUS Satellite Radio-ready

- 3-band Graphic EQ
- 5V preamp output
- Bright and clear LCD display
- HD Radio-ready
- FM/AM tuner
- MOSFET power amplification
- ESN security
- 3 prs. pre outputs
- Remote control-ready

5V_{PRE-OUT}



ESN COMPACT disc HD Radio

NEW

CD5405 MOSFET 50W × 4 (max.)

ESN E5 High-Power CD Receiver

CD/CD-R/RW

1-bit DAC

- 3-band Graphic EQ
- 5V preamp output
- Bright and clear LCD display
- FM/AM tuner
- MOSFET power amplification
- ESN security
- Dual pre outputs (rear/non-fader selectable)
- Remote control-ready

Options

HD Radio-ready

The CD Receivers will deliver all the potential of HD Radio-enhanced broadcasts simply by connecting the optional HDR105 HD Radio Tuner.

NEW

HDR105
HD Radio Tuner Unit



SIRIUS Satellite Radio-ready

The CD Receivers are able to take advantage of all the benefits of satellite broadcasting. The optional ECLIPSE SIR-ECL1 satellite radio tuner can be easily connected for enjoying this exciting new entertainment.

SIR-ECL1
ECLIPSE COMPATIBLE SIRIUS SATELLITE RADIO TUNER

NEW



CD Changer-ready

Functioning as an immense mobile jukebox with storage for 8 CDs, the CH3083 is ideal for increasing music content as it is also compatible with CD-R/RW discs.



CH3083
8-Disc CD Changer
with Magazine Unit

GPS unit-ready

Connects to compatible CD Receiver units for use with Area Shot to enhance its features.



GPS105
GPS Unit

Remote control-ready

Optional new ergonomic design remote enhances operation.



RMC105
Wireless Remote



AUX105
AUX Cord

Optional CD5425-dedicated
AUX IN cable

Feature List

	CD8455	CD8445	CD5435	CD5425	CD5415	CD5405
CONTROL						
Remote Control	●	●	●	Optional	Optional	Optional
CD Changer Control	●	●	●	●	●	—
CD-R/CD-RW	●	●	●	●	●	●
WMA	●	●	●	—	—	—
MP3	●	●	●	●	●	—
Digital Servo System (DSS)	●	●	●	●	●	●
TUNER						
FM / AM	●	●	●	●	●	●
Station Name Input	●	●	—	—	—	—
AUDIO						
Output Voltage and Impedance	8V/55Ω		8V/55Ω	5V/55Ω	5V/55Ω	5V/55Ω
MOSFET Amplification	●	●	●	●	●	●
Advanced 24-bit $\Delta\Sigma$ DAC	●	●	—	—	—	—
Source Volume Control (SVC)	●	●	●	●	—	—
Sound Control Mode	Professional On Off		Advanced On Off		—	—
3-band Graphic EQ	—	—	—	—	●	●
Circle Surround II	—	●	●	—	—	—
Bass/Mid/Treble Control	●	—	—	●	●	●
Time Alignment	●	●	●	—	—	—
Parametric EQ	10-band	7-band	7-band	—	—	—
Multi-Harmonizer (MP3/WMA/ATRAC3)	●	●	●	—	—	—
Listening Position Selector	●	●	●	—	—	—
Crossover	●	●	●	●	—	—
Non Fader Level / Phase Control	●	●	●	●	●	●
SFC	—	—	—	—	—	—
Frequency Response Analysis	●	●	●	—	—	—
Dual Pre Outputs	●	—	●	●	●	Selectable (Rear)
Non-Fader Pre Outputs	●	—	●	●	●	Selectable (Rear)
Digital Input	●	—	—	—	—	—
AUX In	●	●	●	Optional	—	—
GENERAL						
5-pattern illumination	●	●	●	—	—	—
Dimmer Control	●	●	—	—	—	—
ATRAC3 Decoder/Encoder	●	●	—	—	—	—
E-ISERV Connection	MS/CD-R	MS/CD-R	CD-R	CD-R	—	—
ESN security	MS/CD	MS/CD	CD	CD	CD	CD
Display	8-step VF	8-step VF	LCD	LCD	LCD	LCD
Full Face Tilt	●	●	●	●	—	—
E-LAN data link system	●	●	●	●	●	—

Specifications

* Meets CEA2006 guidelines

14.4V Power Supply		CD8455	CD8445	CD5435	CD5425	CD5415	CD5405
Max. Power Output		50W × 4					
RMS Power Output*		14W × 4 (20 — 20,000Hz, 1% THD, 4Ω)					
Lineout Output Level/Impedance		8V(0dB)/55Ω		5V(0dB)/55Ω			
Tone Control	Bass/Mid/Treble	±12dB at 80Hz/±12dB at 630Hz/±12dB at 10kHz					
	Loudness	+10dB at 100Hz/+6.5dB at 10kHz					
FM	Frequency Range	USA: 87.75 — 107.9 MHz (0.2MHz step)		Latin America: 87.75 — 107.9 MHz (0.1MHz step)			
	Usable Sensitivity	13dBf					
	50dB Quieting Sensitivity	14dBf					
	Frequency Response	30 — 15,000Hz ±3dB					
	Stereo Separation	38dB (1kHz)					
AM	Frequency Range	USA: 530 — 1,710kHz (10kHz step)		Latin America: 530 — 1,710kHz (10kHz step)			
	Usable Sensitivity	20μV					
CD	Frequency Response	20 — 20,000Hz, ±3dB					
	S/N Ratio (A-weighted)	100dB		95dB			
	Total Harmonic Distortion	0.008%					
	Stereo Separation	85dB		80dB			
MS	Frequency Response	20 — 20,000Hz, ±3dB		—			
	S/N Ratio (A-weighted)	100dB		—			
	Total Harmonic Distortion	0.008%		—			
Dimensions (W × H × D)		7″ × 2″ × 6-1/8″ (178 × 50 × 155mm)					

Cassette Tuner



ESN

4502

ESN E5 Cassette Tuner with CDC/DSP Control and Remote

Allowing those with extensive tape libraries to continue enjoying their favorite music with better performance than before, the 4502 is an ideal solution because it easily connects to an ECLIPSE CD Changer as well.

- DSP EQ
- Full logic Hybrideck tape mechanism
- FM/AM tuner
- Large 13-segment LCD
- 5V preamp output with low 55Ω impedance
- 3 prs. pre outputs
- CD Changer-ready (2 units)
- E-LAN data link system
- ESN security with CD changer

DVD Player



DV3101



'03 Product of the Year

Hide-Away DVD Player with Remote Controller

Features and functions that offer the user more value and convenience while achieving higher performance.

- Plays back DVD-Videos (Dolby Digital and dts format)
- Built-in soundfield control
- Dynamic Range Control
- Digital and analog outputs
- Installs easily

Equalizers



'02 Product of the Year

EQ2102



30-Band 1/3 Octave Competition Equalizer

An EQ tool for professional applications where systems require precision tonal contouring at a 1/3 octave level, the EQ2102 offers ease-of-use over sophisticated EQ parameters when used with an RTA and pink noise, resulting in smooth band-to-band frequency transitions.

- Stereo configured unit
- 30 frequency bands
- Input level control
- EQ defeat
- Boost cut selectable $\pm 6/12$ dB
- Switchable subwoofer crossover
- Summed channel line output
- LED overload indicators



'02 Product of the Year

21010

5-Band Graphic/1-Band Parametric Equalizer/Crossover

This parametric equalizer/crossover allows a system to achieve a well-balanced response for smooth, accurate sound.

- Master gain and defeat switch
- Input level and selector
- Front/rear fader
- 5-band Graphic EQ
- Low frequency-dedicated 1-band parametric EQ
- Subsonic and low/high pass filters
- Dedicated subwoofer crossover control
- Adjustable 0 to 4 second turn-on delay protection

CD Changer



MZ0803
Magazine unit

CH3083

8-Disc CD Changer with Magazine Unit

Functioning as an immense mobile jukebox with storage for 8 CDs, the CH3083 is ideal for increasing music content as it is also compatible with CD-R/RW discs.

- CD and CD-R/RW discs
- 8 disc magazine
- Coaxial digital output
- Multiple unit connectivity (2 units)
- Precision optical pickup
- "No disc contact" transport
- Reinforced high-rigidity chassis

Digital radio options



This option offers the easiest way to enjoy popular digital satellite broadcasting simply by connecting the SIR-ECL1 to a compatible head unit.



NEW

SIR-ECL1

ECLIPSE COMPATIBLE SIRIUS SATELLITE RADIO TUNER

Optional for: AVN7000, AVN5435, AVX5000
CD8455, CD8445, CD5435, CD5425, CD5415

Dimensions (W × H × D)
4-15/16" × 1-7/16" × 4-3/16"
125 × 35 × 105mm



Use this convenient option to connect to any of the compatible head units to take advantage of the digital broadcast content offered by a growing number of commercial radio stations.



NEW

HDR105

HD Radio Tuner Unit

Optional for: AVN7000, AVN5435, AVX5000
CD8455, CD8445, CD5435, CD5425, CD5415

Dimensions (W × H × D)
6-15/16" × 1-7/16" × 6-5/16"
175 × 36.5 × 160mm

Power Amplifiers

ECLIPSE power amplifiers feature advanced digital and analog circuit topologies to achieve maximum performance over a range of different power ratings.

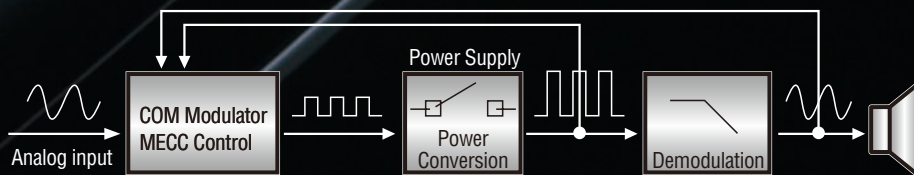


ECLIPSE

ice^{power}

ICEpower® technology revitalizes the amplifier line.

ECLIPSE's latest power amplifiers feature new ICEpower® technology. Seeing increasing use even in ultra high-end audiophile equipment, ICEpower® advantages include superior audio quality, compactness and reduced energy demand as well as reliability. Employing ICEpower® analog technology in ECLIPSE power amplifiers enable them to deliver stunning results in terms of linearity and reduced THD, increased dynamic range and high power stage efficiency.



In an ICEpower® analog circuit the analog signal is modulated into a PWM (Pulse Width Modulation) signal with the Controlled Oscillation Modulator (COM). Then after the power stage, this PWM signal feeds back into the Multivariable Enhanced Cascade Control (MECC) where it is compared to the original input signal and any differences are compensated for to eliminate power stage-induced distortion. The post output filter analog signal also feeds back into the MECC that compensates for output filter load dependent characteristics. The end result is superb sound quality free from conventional Class D limitations.

Power Amplifier Series

Joining the acclaimed EA Series is a brand new generation of power amplifiers, ECLIPSE's XA Series which utilize analog ICEpower® technology to create optimal amplification for the mobile environment.

Premium Digital Amplifier Series

ECLIPSE's Premium Digital Amplifier Series utilize the latest advancements in digital amplification topologies to create superior sounding amplifiers dedicated for the mobile environment. The Premium Digital Amplifier Series features high sound quality and is also extraordinarily energy-conscious.

- ICEpower® full-range Class D operation.
- Attractive design for practicality and ease of use with all controls such as level, crossover, low frequency boost and high/low pass filter adjustments mounted on the top panel.
- Output terminals conveniently located to allow multiple in-line unit installations.

- Bright LED indicators also mounted on the top assist in setting system levels to prevent amplifier clipping.
- Very high efficiency rate with low current draw.



5/4/3 Channel Class D Amplifier with Channelflex Crossover plus Subsonic Filter

Designed to offer an ideal amplification solution for powering a full speaker setup that uses four speakers plus subwoofer. Includes high and low pass

filters plus subsonic filters as well as a variable bass boost that can be used to best effect with a dedicated subwoofer control.



4/3/2 Channel Class D Amplifier with Channelflex Crossover plus Subsonic Filter

Adaptable four channel amplifier that can be bridged to configure a more powerful two channel unit that provides

350W per channel. Subsonic filter and variable bass boost are provided as well as high and low pass filters.



2/1 Channel Class D Amplifier with Channelflex Crossover plus Subsonic Filter

This versatile and powerful amplifier is ideal for powering a four speaker plus subwoofer system and can also be

bridged to function as a 300W single channel amplifier for ultimate systems.



1 Channel Class D Subwoofer Amplifier

Designed for use in the most demanding systems as a dedicated high-performance subwoofer amplifier.

Note: XA5000/XA4000/XA2000 incorporate ICEpower® technology.

Integrated Amplifier Series

The Integrated Amplifier Series offers outstanding sound quality with a distinctive appearance. Audiophile-grade power amplification is featured along with high current MOSFET switching power supplies that combine for dynamic performance with any speaker system.



EA4000

400W (4Ω)

4/3/2 Channel Power Amplifier with ChannelFlex Crossover plus Subsonic Filter

Featuring MOSFET devices for a pure, natural sound that can also be bridged to deliver 150W into 2 channels.

- High current, high-efficiency MOSFET switching power supply delivers significant power when demanded.
- Capable of high current delivery.
- “Easy Tune” top-mounted controls for easily adjusting amplifier parameters even after installation.
- Sleek, low-profile appearance with laser-cut top plate allows installation virtually anywhere.



EA2000

180W (4Ω)

2/1 Channel Class Power Amplifier with ChannelFlex Crossover plus Subsonic Filter

Medium powered, beautiful-sounding amplifier that can be transformed into a powerful 175W amplifier by bridging.

Class D Competition Series



ice power

DA7232

950W × 2

2 Channel Class D Subwoofer Amplifier



ice power

DA7122

1200W × 1

1 Channel Class D Subwoofer Amplifier



DA6213

500W × 2

2 Channel Full Range Class D Amplifier

Note: DA7232/DA7122 incorporate ICEpower® technology.

Specifications

* Meets CEA2006 guidelines

14.4V Power Supply	XA5000	XA4000	XA2000	XA1000	EA4000	EA2000	DA7232	DA7122	DA6213
Channel	5/4/3	4/3/2	2/1	1	4/3/2	2/1	2	1	2
Power Output (max.), 10% THD 2Ω	900W	840W	360W	640W	400W (4Ω)	180W (4Ω)	950W × 2	1200W × 1	500W × 2
Power Output* 1% THD	2Ω	75W × 4 + 450W	175W × 4	150W × 2	480W	—	850W × 2	950W × 1	400W × 2
	4Ω	50W × 4	125W × 4	100W × 2	—	75W × 4	620W × 2	650W × 1	250W × 2
	4Ω Sub Chnl.	300W × 1	—	—	320W × 1	—	620W × 2	650W × 1	—
	4Ω Bridged	150W × 2	350W × 2	300W × 1	—	150W × 2	175W × 1	—	850W × 1
THD @ Rated Power	@2Ω	—	—	—	—	—	<1.0%		
	@4Ω	0.05%			—	0.05%	<1.0%		
	@4Ω Sub Chnl.	0.25%	—	—	0.25%	—	<1.0%		
S/N Ratio,* 1W out	>90dB					>120dB			
Frequency Response, 1W out	20 — 20,000Hz (stereo)				20 — 20,000Hz		4 — 200Hz, ±1dB @4Ω		>80dB 20 — 30,000Hz/ ±1dB @4Ω
Amp Crossovers	Hi-Pass 18dB/oct.	30 — 500Hz		—	30 — 500Hz		—	—	—
	Lo-Pass 18dB/oct.	50 — 500Hz				50 — 200Hz			
	Subsonic 18dB/oct.	18Hz				Defeat 1 — 60Hz			
Pre-Amp Output Lo-Pass 18dB/oct.	—	No Filter	No Filter	—	No Filter	No Filter	50 — 200Hz		
Dimensions (W × H × D)	15-3/4" × 2-5/16" × 10-3/16" 400 × 59 × 259mm	15-3/4" × 2-5/16" × 10-3/16" 400 × 59 × 259mm	9-13/16" × 2-5/16" × 10-3/16" 250 × 59 × 259mm	9-13/16" × 2-5/16" × 10-3/16" 250 × 59 × 259mm	13-3/8" × 2-5/16" × 10-3/16" 340 × 59 × 259mm	9-13/16" × 2-5/16" × 10-3/16" 250 × 59 × 259mm	21" × 2" × 11-1/16" 533 × 52 × 300mm	15-3/4" × 2" × 11-1/16" 400 × 52 × 300mm	15-3/4" × 2" × 11-1/16" 400 × 52 × 300mm

Speakers

Designed to provide dynamic and accurate sound over a wide frequency range, ECLIPSE speakers are available in different product series to suit various applications.





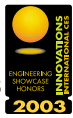
Subwoofers

SW9100 Titanium DVC Pro Series
SW9100 Titanium DVC Series

The SW9100 Titanium Double Voice Coil (DVC) series subwoofers were developed to meet the need for subwoofers that combine quick response, efficiency and very high SPL performance. These demanding specifications required the development of the radical new technologies used in engineering and building the Titanium series subwoofers.

QCA (Quick Change Assembly) technology

ECLIPSE QCA exclusive technology has designed the speaker to instantly allow its two sections to separate in the event that the speaker cone gets physically damaged. Simply unlock the two sections with one allen key, twist off the speaker assembly (QCA) and replace with another.



Performance that's a revelation

Apart from delivering prodigious amounts of low frequencies, truly excellent subwoofers show what they're made of by the quality of the low frequencies they produce. Along with moving lots of air, the ability to define the pitch of the low notes is important and to preserve transients is crucial. To do that, subwoofer cones have to be able accelerate fast. The ability of the low-mass high X-max 15" to move faster than a typical 8" woofer but provide bass like an 18" cone is what make the SW9100 Titanium DVC Series deliver such exceptional performance.

Solid titanium cone

The solid titanium cone adds the best of this metal's properties to the subwoofer: very high tensile strength, high stiffness to mass ratio, excellent heat dispersion and corrosion resistance. At high power levels, the titanium cone resists the cone flex that causes coloration and distortion, moving air efficiently throughout the full power handling range.

2-inch surround

The surrounds are two inches wide to accommodate speaker travel of 3.5 inches peak to peak excursion. Made of special polyether foam that is resistant to ultraviolet radiation and moisture, the surrounds have superior mechanical properties and the low mass needed to produce extremely high excursions.

Aluminum voice coil

The voice coil former is made of 8/1000" thick aluminum, much thicker than industry standard, to handle the stresses of the high power motor at large displacements. The voice coil wire is a high-temperature aluminum wire, used to minimize mass and maximize thermal radiation. Since the bond between cone and former is thermally conductive, the voice coil heat is quickly dissipated throughout the entire titanium cone. The superior conductivity combined with unparalleled heat dissipation of this voice coil and former assembly means more power transfer into the cone movement instead of wasted heat.

Dual symmetrically arranged spiders

Two spiders designed with special non-linear Finite Element Analysis (FEA) software are spaced precisely apart to keep the voice coil centered in the motor structure. The woven-in tinsel lead wires are the ultimate in durability and power transfer. The synthetic fabric used to manufacture the spiders is four times stronger than conventional material used in most subwoofers.

High force motor structure

The motor structure was designed to maximize the force versus displacement curve of high excursion drivers. The motor has a unique shape that results in 20% more force from the same magnets than is normally achieved. The magnetic field is very symmetrical above and below the magnetic gap, contributing to a low distortion and audibly superior driver.

Cast aluminum frame

The aluminum frame forms the skeleton of the high performance Titanium series subwoofers. Venting below the spiders accommodates the enormous amounts of air that are moved during operation, as well as keeping the motor assembly free of any excess heat. The cast frame also acts as a heatsink to dissipate any additional heat produced from the subwoofers.

Triple-stacked magnet

ECLIPSE Titanium subwoofers feature a extra-long magnet and pole piece to accurately control woofer travel and enable high-power performance.

One-piece machined back plate and pole piece

The back plate and pole pieces of a Titanium series subwoofer are machined from a single block of low-carbon steel. This expensive process yields a component part of unparalleled precision and results in a highly efficient magnetic circuit.

Aero-vented pole

The pole piece of the subwoofer is aero-vented both outside and inside to facilitate the laminar flow of air into and out of the voice coil area for superior motor cooling. Aero-venting also reduces vent noise in high driver travel conditions.

The Advantage of Dual Voice Coil (DVC)

Dual Voice Coil speakers are designed to maximize space for more flexibility during installation. A dual-voice coil speaker is essentially two speakers in one: two separate voice coils are connected to the amplifier. Depending on the impedance of each voice coil, the two can be combined in a parallel or series configuration to match the impedance ability of the amplifier. The dual voice coil design does not sacrifice system power handling or SPLs.



SW9182 Pro
18" Subwoofer (1Ω × 4)



SW9152 Pro
15" Subwoofer (1Ω × 4)



- Premium foam surround
- Titanium cone
- Asymmetrically mirrored spiders
- Aluminum voice coil former
- FEA-CAD designed
- Aero-vented pole piece
- Proprietary diecast aluminum frame (patented large excursion, high dissipation frame)
- Triple-stacked magnet
- Sealed box enclosure recommended
- Continuous power handling: 3000W
- Music power handling: 5000W
- Dual voice coils
- 350oz. magnet motor
- 4" diameter voice coils



SW9152 15" Subwoofer (4Ω + 4Ω)



SW9122 12" Subwoofer (4Ω + 4Ω)



SW9102 10" Subwoofer (4Ω + 4Ω)

- Polyether foam surround
- Solid titanium cone
- Dual mirror-image spiders
- Aluminum voice coil former
- "Bottomless" design
- Aero-vented pole piece
- Cast aluminum frame
- Triple-stacked magnet
- Continuous power handling: 750W
- Music power handling: 1500W
- Dual voice coil
- QCA (Quick Change Assembly) technology
- 3" diameter voice coil
- 250oz. magnet motor



Speaker Protective Bars (for 12" speakers)



PT1287 12" Subwoofer Protector

Fits models:
SW9122/SW7124DVC-T2/T4
SW7324DVP/SW7524DVC/.8/.4

These protective bars were specially designed to offer additional protection to the above-mentioned speakers. As well as enhancing the appearance of ECLIPSE high-performance speakers, the strong, rigid bars mount easily on the speakers and protect them when installed for heavy-duty applications.

	SW9182Pro	SW9152Pro	SW9152	SW9122	SW9102
Size	18"	15"	15"	12"	10"
Fs	24Hz	27Hz	22Hz	22Hz	26Hz
Qts	0.17	0.15	0.39	0.30	0.47
DCR	1Ω × 4	1Ω × 4	4.0Ω + 4.0Ω	4.0Ω + 4.0Ω	4.0Ω + 4.0Ω
Vas	5.7 Cuft	2.0 Cuft	6.10 Cuft	3.20 Cuft	2.10 Cuft
Xmax (one way)	3.5" peak-to-peak (max: 4")	3.5" peak-to-peak (max: 4")	1.75"	1.50"	1.50"
Continuous Power Handling	3000W	3000W	750W	750W	750W
Maximum Power Handling	5000W	5000W	1500W	1500W	1500W

Subwoofers

SW7100 Aluminum Series

The SW7100 Series distinguishes itself by its use of an ECLIPSE proprietary speaker technology — Vortex Thruster Technology — that enhances performance. The Series is also designed with a strong show-tech style that makes sure each speaker installation has a clean, show quality look and feel to it.

Vortex Thruster Technology

This exclusive technology uses metal spikes that are stalagmite-shaped in a configuration that affects the surrounding air by intaking air from the speaker perimeter to the center section that has more heat. The air travels in a spiral-like flow and creates a vortex that increases the pumping of air and enhances dissipation. Structural developments create a better flow of heated air to a wheel-style heat sink which is vented in order to force or thrust the hot air to the vents.

One location terminal block

The SW7100 Series positions all terminals in a neat one-row block which allows easy series or parallel installation (jumpers provided) that meets demanding show-tech competition requirements.



SW7124DVC-T2

12" Subwoofer (2Ω + 2Ω)

SW7124DVC-T4

12" Subwoofer (4Ω + 4Ω)

- 12" Solid aluminum cone
- Diecast aluminum basket with Vortex Thruster Technology
- Continuous power handling: 450W
- Maximum power handling: 900W
- Screw mounting hole cover plugs
- 4-terminal array
- Series/parallel jumpers
- Self display giftbox

T2: Dual 2Ω
T4: Dual 4Ω



SW7104DVC-T2

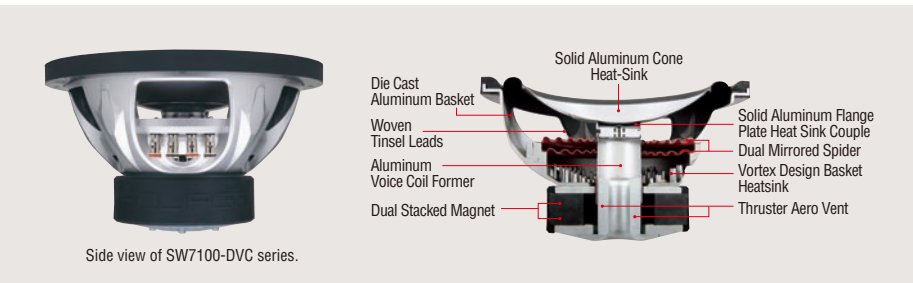
10" Subwoofer (2Ω + 2Ω)

SW7104DVC-T4

10" Subwoofer (4Ω + 4Ω)

- 10" Solid aluminum cone
- Diecast aluminum basket with Vortex Thruster Technology
- Continuous power handling: 400W
- Maximum power handling: 800W
- Screw mounting hole cover plugs
- 4-terminal array
- Series/parallel jumpers
- Self display giftbox

T2: Dual 2Ω
T4: Dual 4Ω



	SW7124DVC-T2	SW7124DVC-T4	SW7104DVC-T2	SW7104DVC-T4
Size	12"	12"	10"	10"
Fs	25Hz	27Hz	33Hz	32Hz
Qts	0.42	0.52	0.5	0.58
DCR	1.8Ω + 1.8Ω	3.8Ω + 3.8Ω	1.8Ω + 1.8Ω	3.8Ω + 3.8Ω
Vas	2.23 Cuft	2.24 Cuft	0.70 Cuft	0.85 Cuft
Xmax (one way)	1.4"	1.2"	1.4"	1.2"
Continuous Power Handling	450W	450W	400W	400W
Maximum Power Handling	900W	900W	800W	800W

SW7300 Aluminum Series

The SW7300 Series incorporates a smaller, precision voice coil and magnet that allow producing 450W without strain. ECLIPSE's low distortion/high excursion speaker cone design philosophy lets the speaker travel 1.4 inches, which is the most in its class.



Side view of SW7300DVP Series



SW7324DVP
12" Subwoofer (4Ω + 4Ω)

- 12" Solid aluminum cone
- Diecast aluminum basket with patented technology
- Continuous power handling: 450W
- Maximum power handling: 900W
- 2" voice coil



SW7304DVP
10" Subwoofer (4Ω + 4Ω)

- 10" Solid aluminum cone
- Diecast aluminum basket with patented technology
- Continuous power handling: 400W
- Maximum power handling: 800W
- 2" voice coil

SW7500 Hybrid Series

The SW7500 Series makes use of hybrid cone materials with a proprietary combination of laminate materials. The end result is a distinctive and attractive cone appearance that also delivers 300W of solid bass. Contributing to its impressive looks is the neat one-row terminal block in one position on the basket for easier and neater installations.



Side view of SW7500DVC Series



SW7524DVC
12" Subwoofer (4Ω + 4Ω)

SW7524.8 12" Subwoofer (8Ω)
SW7524.4 12" Subwoofer (4Ω)

- 12" hybrid cone
- Diecast aluminum basket
- Continuous power handling: 300W
- Maximum power handling: 600W
- Show-tech styling



SW7504DVC
10" Subwoofer (4Ω + 4Ω)

SW7504.8 10" Subwoofer (8Ω)
SW7504.4 10" Subwoofer (4Ω)

- 10" hybrid cone
- Diecast aluminum basket
- Continuous power handling: 300W
- Maximum power handling: 600W
- Show-tech styling

	SW7324DVP	SW7304DVP	SW7524DVC	SW7524.8	SW7524.4	SW7504DVC	SW7504.8	SW7504.4
Size	12"	10"	12"	12"	12"	10"	10"	10"
Fs	31Hz	31Hz	36Hz	36Hz	36Hz	38Hz	38Hz	38Hz
Qts	0.56	0.7	0.50	0.52	0.44	0.53	0.48	0.42
DCR	4Ω + 4Ω	4Ω + 4Ω	3.6Ω + 3.6Ω	7.2Ω	3.6Ω	3.6Ω + 3.6Ω	7.2Ω	3.6Ω
Vas	3.32 Cuft	1.39 Cuft	2.43 Cuft	2.39 Cuft	2.12 Cuft	0.97 Cuft	1.16 Cuft	1.06 Cuft
Xmax (one way)	1.25"	1.2"	0.73"	0.73"	0.73"	0.73"	0.73"	0.73"
Continuous Power Handling	450W	400W	300W	300W	300W	300W	300W	300W
Maximum Power Handling	900W	800W	600W	600W	600W	600W	600W	600W

Subwoofers

SW6100 DVC / SW6100 Series

The SW6100 Series combines the most demanded features in a subwoofer. The hybrid aluminum cone uses a proprietary combination of laminate materials for extraordinary dimensional stability. Offering double the cone excursion at 1.17" of any other speaker in its class, the SW6100 delivers a healthy output of 250W. In addition, a stamped chrome speaker basket sets off the speaker in any installation.

- Composite Alloy Cone
- 3/4-inch wide santoprene surround
- Chrome Airovent Basket
- Long-throw bottomless motor structure
- Rubber Magnet Boot
- CONEX® spider
- Spider woven tinsel leads
- Small sealed box enclosures
- Concave inverted dust cap
- Double-stacked magnets
- Chrome push speaker terminals (accepts 10 AWG cable)



SW6123DVC

12" Dual Voice Coil Subwoofer (4Ω + 4Ω)

SW6123.4 12" Subwoofer (4Ω)

- Continuous power handling: 250W
- Maximum power handling: 500W

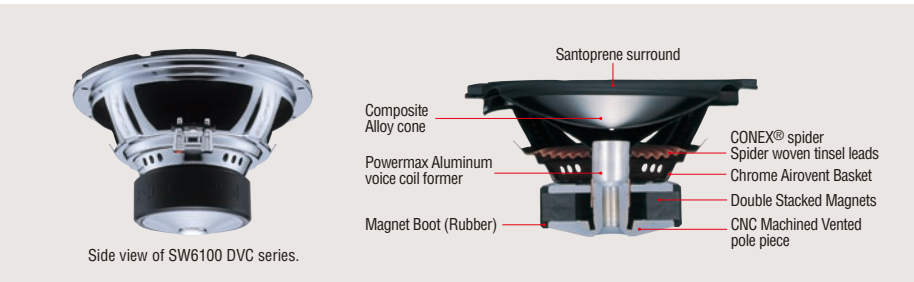


SW6103DVC

10" Dual Voice Coil Subwoofer (4Ω + 4Ω)

SW6103.4 10" Subwoofer (4Ω)

- Continuous power handling: 200W
- Maximum power handling: 400W



Both SW6100 DVC & SW6100 Series employ CONEX® spider santoprene surrounds, double-stacked magnet and long-throw bottomless motor structure.

	SW6123DVC	SW6123.4	SW6103DVC	SW6103.4
Size	12"	12"	10"	10"
Fs	29Hz	29Hz	34Hz	34Hz
Qts	0.78	0.78	0.83	0.78
DCR	3.6Ω + 3.6Ω	3.6Ω	3.6Ω + 3.6Ω	3.6Ω
Vas	2.52 Cuft	2.4 Cuft	1.14 Cuft	1.31 Cuft
Xmax (one way)	0.78"	0.81"	0.78"	0.81"
Continuous Power Handling	250W	250W	200W	200W
Maximum Power Handling	500W	500W	400W	400W

The new SW4000 Series of subwoofers offer an extraordinary performance for an entry-level series. ECLIPSE engineers were able to achieve a performance level comparable to subwoofers in a higher class. Through tests and listening evaluations, it was determined that a proprietary Kevlar composite cone material would provide an ideal solution with extended low frequency response, pitch definition and transient response. Featuring a distinctive and attractive grill design, the SW4000 Series is available in the two most popular subwoofer sizes.

- Kevlar composite cone
- Integrated grill assembly
- Stamped basket
- Foam surround
- Polycarbonate spider
- Magnet (SW4000:30oz, SW4200:43oz)
- 4-layer aluminum single voice coil
- Air vent cooling system
- Screw type terminals

A new approach for a dynamic subwoofer solution.



SW4200
12" Subwoofer (4Ω)

750W NEW

- Continuous power handling: 250W
- Maximum power handling: 750W

SW4000
10" Subwoofer (4Ω)

600W NEW

- Continuous power handling: 200W
- Maximum power handling: 600W



Side view of SW4200 series.

	SW4200	SW4000
Size	12"	10"
Fs	32Hz	38Hz
Qts	0.56	0.60
DCR	3.6Ω	3.6Ω
Vas	2.75 Cuft	1.25 Cuft
Xmax (one way)	0.27"	0.27"
Continuous Power Handling	250W	200W
Maximum Power Handling	750W	600W

Subwoofers

SYSTEMS

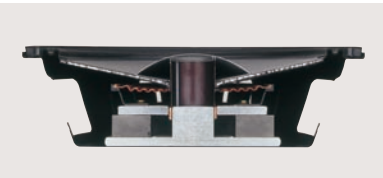
Available in several configurations to optimally match user vehicles from trucks and SUVs to cars, these subwoofer systems are constructed from sturdy wood, carefully assembled and well-damped for a tight bass. Finished in attractive and durable vinyl, these subwoofer systems are ready for final installation. ECLIPSE subwoofer systems add a new dimension to the sound, providing a solid foundation for a dynamic full bandwidth sound system.

Featuring a configuration specifically designed for the installation space requirements of trucks, SUVs and similar vehicles, the SW5124BX incorporates a special low-profile bass driver that saves space and still delivers a massive low frequency sound.



SW5124BX
12" Truck-box Subwoofer System

- Continuous power handling: 125W
- Maximum power handling: 250W



Cutaway view of the SW5124 Lo-Profile Custom Application Woofer shows the significantly reduced depth of this speaker that makes it an ideal choice to install in a truck-box enclosure.



SW6124BXD
12" x 2 Subwoofer System
SW6104BXD
10" x 2 Subwoofer System

- Continuous power handling: 500W/400W
- Maximum power handling: 1000W/800W



SW6124BX
12" Subwoofer System
SW6104BX
10" Subwoofer System

- Continuous power handling: 250W/200W
- Maximum power handling: 500W/400W



SW6102.4BX
10" "Bass" Bandpass Subwoofer

- Continuous power handling: 200W
- Maximum power handling: 300W

	SW6124BXD	SW6104BXD	SW6124BX	SW6104BX	SW5124BX	SW6102.4BX
Subwoofer Driver	SW6124 x 2	SW6104 x 2	SW6124	SW6104	SW5124	SW6102.4
Frequency Response	28 — 250Hz	35 — 250Hz	28 — 250Hz	35 — 250Hz	35 — 250Hz	30 — 150Hz
Sensitivity 1W/m SPL	88dB	86dB	88dB	85dB	88dB	88dB
Normal Impedance	8Ω + 8Ω Parallel	8Ω + 8Ω Parallel	4Ω	4Ω	4Ω	4Ω
Dimensions (W x H x D)	27.6" x 13.8" x 15.3" 701 x 350 x 389mm	23.6" x 12.7" x 15.3" 600 x 323 x 389mm	14.7" x 13.9" x 15.3" 373 x 353 x 389mm	13.5" x 12.7" x 15.3" 343 x 323 x 389mm	18.9" x 15" x 8" 480 x 381 x 203mm	22" x 12.6" x 15.3" 701 x 350 x 389mm
Weight (Gross)	51.8lbs (23.5kg)	46.8lbs (21.3kg)	30.8lbs (14kg)	21.2lbs (9.6kg)	26lbs (11.8kg)	40lbs (18.2kg)
Weight (Net)	51.3lbs (23.3kg)	46.4lbs (21kg)	30.5lbs (13.9kg)	20.9lbs (9.6kg)	25.5lbs (11.6kg)	36.1lbs (16.4kg)
Finish	Grey & Black Vinyl	Grey & Black Vinyl	Grey & Black Vinyl	Grey & Black Vinyl	Grey & Black Vinyl	Vehicle grade gray carpet.
Continuous Power Handling	500W	400W	250W	200W	125W	200W
Maximum Power Handling	1000W	800W	500W	400W	250W	300W

Component Series Speakers

When size limitations are a factor for speaker installations, ECLIPSE Component Series Speakers are an ideal choice. These are complete two- and three-way speaker systems with different components and crossovers designed to synergistically work together in perfect balance right from the start.



SC8365 6-1/2" Component 3-Way Speaker System

NEW

- Continuous power handling: 100W
- Maximum power handling: 300W
- Sensitivity (1Watt/meter) SPL: 88dB
- Crossover frequencies: woofer/midrange 1400Hz, midrange/tweeter 5kHz
- Mounting Depth: 2-7/8"



SC8355 5-1/4" Component 3-Way Speaker System

NEW

- Continuous power handling: 85W
- Maximum power handling: 250W
- Sensitivity (1Watt/meter) SPL: 87dB
- Crossover frequencies: woofer/midrange 1400Hz, midrange/tweeter 5kHz
- Mounting Depth: 2-5/8"

Woofer driver

- solid aluminum cone (SC8365: 6-1/2") (SC8355: 5-1/4")
- Aluminum diecast baskets
- Santoprene surround
- Porous flat spider
- Aluminum voice coil former
- Very narrow voice coil gaps
- Vented pole piece

Midrange driver

- 1-1/2" solid aluminum hard dome
- Neodymium magnet
- Aluminum voice coil former
- Ferro-fluid cooled
- Flush-mounting kit

Tweeter

- 3/4" solid aluminum hard dome
- Neodymium magnet
- Aluminum voice coil former
- Ferro-fluid cooling
- Flush-mounting kit

Crossover

- Audiophile-grade, speaker-specific matched component passive crossover with clear lexan cover
- 12dB/octave high-pass, 6dB/octave low-pass Butterworth Optimum Q crossover filters
- OFC wirewound air core inductors and metallized polypropylene capacitors
- Tweeter protection circuit
- Variable tweeter sensitivity (-3/0/+3dB)



SC8264 6-1/2" 2-Way System Driver with 1" Aluminum Tweeter

- Continuous Power Handling: 85W
- Music Power Handling: 250W
- Mounting Depth: 2-7/8"



SC8254 5-1/4" 2-Way System Driver with 1" Aluminum Tweeter

- Continuous Power Handling: 75W
- Music Power Handling: 220W
- Mounting Depth: 2-3/8"

Woofer driver

- Metalized Mica PP
- 8-spoke, diecast vented aluminum basket frame
- Santoprene surround
- Symmetrical Low Distortion Spider
- High porous spider material
- 1-1/4" voice coil
- Aluminum voice coil former
- Narrow gap coil design
- Chromed vented air-cooled pole piece
- Gold-plated input terminals
- Grills included

High Frequency Driver

- 1" aluminum tweeter
- Neodymium magnet
- 1" aluminum hard dome tweeter cone
- Ferro-fluid cooling
- Flush and angle mounting kits included

Crossover

- Passive 2-way optimized component-specific crossover network
- Compact, low-profile crossover with clear plexiglass cover
- 12dB/octave hi- and low-pass Butterworth filters
- Tweeter protection circuit
- Air/iron core inductors
- ECLIPSE HQ capacitors
- Variable tweeter sensitivity (-3/0/+3dB)
- Gold-plated input/output terminals

Point Source Series Speakers

3-Way SA-Series with CTA (Compound Tweeter Array)

ECLIPSE SA-Series speakers are point source 3-way speaker systems with the woofer, midrange and high-frequency components all in the same axis for focused sound dispersion. The addition of time alignment enhances all the advantages of a true point source.

Enhanced clarity with the Compound Tweeter Array (CTA)

The Compound Tweeter Array (CTA) comprises a large diameter soft dome midrange/tweeter driver that crosses over from the woofer at 3kHz or 3.5kHz (depending on the SA-Series model) and handles frequencies up to 8kHz. A Super Tweeter takes over with a high-frequency response that goes all the way out past 40kHz. This makes for increased clarity but without extra brightness or glare. The CTA also enables better high frequency energy dispersion and substantially improves the speaker's off-axis response characteristics

Improved imaging with Time Alignment.

A time-aligned speaker exhibits precise imaging with excellent phase coherency. SA speaker units position the woofer and soft dome midrange diaphragms axially on the same plane for symmetrical time and distance alignment. The woofer cone and midrange dome are also mechanically aligned for optimal phase coherency and imaging. The super tweeter is on a mount directly above the midrange dome that also acts as a phase plug.

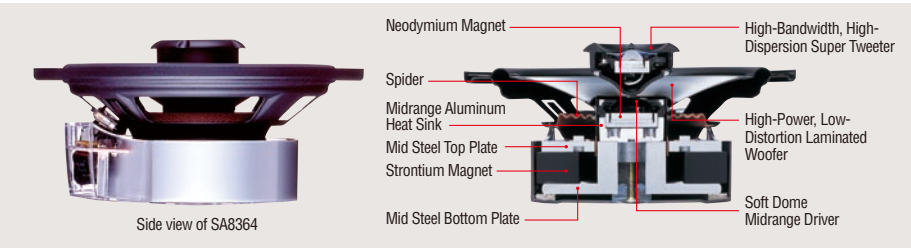
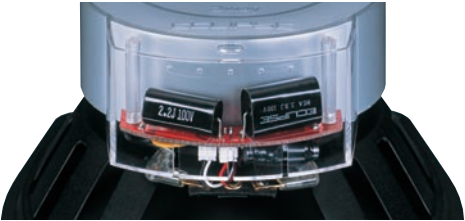
Perfect for system expansion.

The SA Series is ideal for use alone as high-performance replacement speakers that instantly upgrade any in-car system. They are also perfect for use with other components to create extraordinary systems. Additional low frequency augmentation is easy using any of ECLIPSE's various subwoofers powered by dedicated subwoofer amplifiers.

- Easily fits stock speaker footprints
- Simple installation
- 3-Way time aligned point source design
- Aluminum voice coil former
- CTA (Compound Tweeter Array) for response to 40kHz
- 12dB/octave crossover
- Midrange/tweeter protective circuit
- Wide frequency response
- Protective grille

Crossover network

Each SA-Series speaker incorporates a computer-optimized crossover designed to maximize sonic purity and allow greater power handling with less distortion. ECLIPSE proprietary capacitors and quality components are utilized to ensure the three drivers produce a smooth, seamless sound.



SA8394
6 × 9" 3-Way Point Source with CTA

- Continuous Power Handling: 85W
- Music Power Handling: 250W



SA8374
5 × 7" 3-Way Point Source with CTA

- Continuous Power Handling: 50W
- Music Power Handling: 150W



SA8364
6-1/2" 3-Way Point Source with CTA

- Continuous Power Handling: 50W
- Music Power Handling: 150W

	SA8394	SA8374	SA8364
Size	6 × 9"	5 × 7"	6-1/2"
Frequency Response	40 — 40,000Hz	52 — 40,000Hz	82 — 40,000Hz
Santoprene Surround	●	●	●
Laminated Mica-filled Polypropylene Cones	●	●	●
Ferro-Fluid Cooled Soft Dome Midrange Driver	●	●	●
Ferro-Fluid Cooled Super Tweeter	●	●	●
Midrange/Tweeter Protection	●	●	●
Mounting Depth	3-3/8"	2-9/16"	2-1/4"
Grill or Adaptor	Grill + Spacer	Grill + Spacer	Grill + Spacer

2-Way SP-Series

ECLIPSE's 2-Way Point Source Series can instantly improve a system's total sound quality. The point source configuration of these speakers helps realize accurate imaging and a wide, expansive soundstage. Positioning the high frequency driver concentrically in the center of the low frequency's voice coil dramatically improves phase and imaging characteristics because the high and low frequencies are correctly aligned.

Concentrically-mounted tweeter.

Mounting the high frequency driver unit in the center of the low frequency unit voice coil allows point source speakers to approach an acoustic ideal, that is, all frequencies both high and low radiating from a single point.

Computer-optimized crossover networks.

High quality parts are used to create efficient and crossover networks that minimize distortion and allow for smooth transitions between drivers. The crossovers are securely mounted directly to the woofers for ease of installation.



SP8994 6 × 9" 2-Way Point Source

- Continuous Power Handling: 85W
- Music Power Handling: 250W



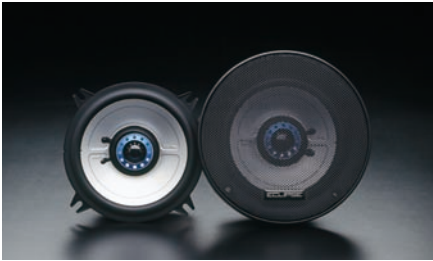
SP8974 5 × 7" 2-Way Point Source

- Continuous Power Handling: 50W
- Music Power Handling: 150W



SP8964 6-1/2" 2-Way Point Source

- Continuous Power Handling: 50W
- Music Power Handling: 150W



SP8954 5-1/4" 2-Way Point Source

- Continuous Power Handling: 40W
- Music Power Handling: 120W



SP8944 4" 2-Way Point Source

- Continuous Power Handling: 40W
- Music Power Handling: 120W

	SP8994	SP8974	SP8964	SP8954	SP8944
Size	6 × 9"	5 × 7"	6-1/2"	5-1/4"	4"
Frequency Response	40 — 20,000Hz	65 — 20,000Hz	70 — 20,000Hz	80 — 20,000Hz	90 — 20,000Hz
Santoprene Surround	●	●	●	●	●
Injection-molded Polypropylene-Cone Material	●	●	●	●	●
Aluminum Voice Coil Former	●	●	●	●	●
Neodymium Polycarbon Hard Dome Tweeter	1" Ferro-Fluid Cooled	3/4" Ferro-Fluid Cooled	3/4" Ferro-Fluid Cooled	3/4" Ferro-Fluid Cooled	3/4" Ferro-Fluid Cooled
Computer-optimized Crossover	●	●	●	●	●
Tweeter Protection	●	●	●	●	●
Mounting Depth	3-7/16"	3-7/16"	2-3/8"	2-5/16"	2-1/16"
Grill Included	●	6 × 8" adaptor plate	●	●	● and 4 × 6" adaptor plate

Integrated Series Speakers

ECLIPSE Integrated Series speakers are integrated concentric units that are designed to replace factory speakers for significantly better music fidelity.

Hybrid Mica PP Cone Woofer

The ECLIPSE speaker cone is hybrid mica PP for rigidity under intense power, ensuring distortion-free performance.

Butyl rubber surround

The butyl rubber surround allows linear cone excursion and dampens cone resonance for undistorted dynamic peaks and clarity at all levels.

Kapton voice coil former

Handles a large amount of heat without deforming.

Tweeter protection

A solid state device protects the speaker system from power overloads. This device will momentarily shut down the tweeter circuit, and will automatically reset when the condition normalizes.

Super tweeter (for SE8495, SE8375, SE8365, SE8355, SE8405 only)

To accommodate the extended high frequency response of DVD-Audio discs and to provide superior treble reproduction, the 3-way units incorporate a newly developed super tweeter that goes all the way out to 40kHz (typically 50kHz).

Small neodymium tweeter

The use of a neodymium magnet improves speaker efficiency.



SE8495 6 × 9" 4-Way NEW

- Continuous Power Handling: 75W
- Music Power Handling: 220W



SE8375 5 × 7" 3-Way NEW

- Continuous Power Handling: 40W
- Music Power Handling: 120W



SE8355 5-1/2" 3-Way NEW

- Continuous Power Handling: 30W
- Music Power Handling: 90W



SE8405 4 × 10" 3-Way NEW

- Continuous Power Handling: 35W
- Music Power Handling: 100W

	SE8495	SE8375	SE8465A
Size	6 × 9" 4-Way	5 × 7" 3-Way	4 × 6" 2-Way
Frequency Response	50 — 40,000Hz	85 — 40,000Hz	105 — 40,000Hz
Sensitivity	93dB	90dB	87dB
Hybrid Mica PP Cone	●	●	●
Rubber Surround	●	●	●
Kapton Voice Coil Former	●	●	●
Midrange Dome	●	—	—
Mylar Tweeter Dome	●	●	●
Super-Tweeter Dome	●	●	●
Neodymium Tweeter Magnet	●	●	●
Ferrite Woofer Magnet	●	●	●
Mounting Depth	3-1/16"	2-1/8"	1-3/4"



SE8465A 4 × 6" 2-Way NEW

- Continuous Power Handling: 30W
- Music Power Handling: 90W



SE8465E 4 × 6" 2-Way NEW

- Continuous Power Handling: 30W
- Music Power Handling: 90W



SE8365 6-1/2" 3-Way NEW

- Continuous Power Handling: 40W
- Music Power Handling: 120W



SE8245 4" 2-Way NEW

- Continuous Power Handling: 25W
- Music Power Handling: 75W



SE8235 3-1/2" 2-Way NEW

- Continuous Power Handling: 20W
- Music Power Handling: 60W

Marine Loudspeaker

ECLIPSE introduces a high-performance speaker that is impervious to the elements and specifically designed for excellent response in an open-air environment such as on a boat.



SM8263 Marine Loudspeaker

Waterproof full-range speaker	
Sensitivity	85dB
Woofer Cone	6-1/2" (UV Solar-Protected)
Tweeter	20mm Aluminum Hard Dome (UV Solar-Protected)
Basket	One Piece Cast Powder Coated Aluminum
Grille	Polycarbonate Plastic (UV Solar-Protected)
Woofer Magnet	Ferrite
Tweeter Magnet	Neodymium
Mounting Depth	3-1/2"

SE8465E	SE8365	SE8355	SE8405	SE8245	SE8235
4 × 6" 2-Way	6-1/2" 3-Way	5-1/2" 3-Way	4 × 10" 3-Way	4" 2-Way	3-1/2" 2-Way
105 — 40,000Hz	90 — 40,000Hz	90 — 40,000Hz	65 — 40,000Hz	105 — 40,000Hz	120 — 40,000Hz
87dB	90dB	89dB	91dB	89dB	87dB
●	●	●	●	●	●
●	●	●	●	●	●
●	●	●	●	●	●
—	—	—	●	—	—
●	●	●	●	●	●
●	●	●	●	●	●
●	●	●	●	●	●
●	●	●	●	●	●
1-3/4"	1-7/8"	1-7/8"	2-3/8"	1-5/8"	1-1/2"

Notes and Precautions

Product safety notice

- To ensure the safe operation of ECLIPSE products, please read the owner's manuals carefully prior to using.
- ECLIPSE is not responsible for any accident or damage due to improper installation, connections or products modified in any way.

Warning

- All products are intended for DC 12-Volt operation in negative grounded vehicles only. Never use them in 24-Volt vehicles such as heavy trucks or diesel cars with cold-region specification, aircraft or marine environments unless specifically rated to handle these conditions.
- Do not adjust controls while driving. To adjust the controls, stop the car in a safe location.

Caution

- Installation of products requires experience and knowledge. Ask your ECLIPSE retailer for proper installation.
- ECLIPSE cannot guarantee that every product it manufactures will be able to be installed in every vehicle model or make. To be sure, please consult your ECLIPSE retailer.
- In some cases due to installation-related considerations, additional connecting cables may need to be purchased for an ECLIPSE product.
- The rear view camera is a parking aid. It must be used only to supplement your vehicle's side view and rearview mirrors. It is not a substitute for mirrors and careful driving.
- Do not remove the HDD from the head unit. ECLIPSE is not responsible for any loss of data, damage or malfunction to the disk drive mechanism resulting from unauthorized removal or tampering with the HDD.
- Please be sure to follow instructions provided in the installation manual for correct procedures as incorrect installation may affect driving-related operation and/or airbag operation.
- Please make sure only the official parts supplied with the unit are used. Do not substitute other parts as it may affect operation or compromise unit build integrity.
- Optimal MP3 and WMA file reproduction quality depends greatly on the original encoding process. Depending on the original encoding, files may sometimes not play back properly.
- The ECLIPSE navigation system requires its dedicated database for optimal performance. Do not insert other database DVDs that may cause the unit to malfunction or not respond.

General

- Product design and specifications are subject to change without prior notice or obligation as ECLIPSE reserves the right to constantly seek to improve its products.
- Due to characteristics and properties of various photography and printing processes, the color(s) of the actual product may slightly differ from those shown on these pages.
- Some screen images shown are simulated.
- Some graphic examples of ECLIPSE Web services may be from pre-release software and could vary slightly from the final version.

Licensing and Trademarks

- Circle Surround II and the SRS logo are trademarks or registered trademarks of SRS Labs, Inc.
- "Dolby", "Pro Logic" and the double D symbol  are trademarks of Dolby Laboratories and the Dolby Laboratories Licensing Corporation.
- "dts" and "dts Digital Out" is a trademark of Digital Theater System, Inc.
- HD Radio is a trademark of iBiquity Digital Corporation.
- SIRIUS SATELLITE RADIO is a trademark of SIRIUS Satellite Radio Inc.
- Memory Stick is a registered trademark of Sony Corp.
- Magic Gate is a registered trademark of Sony Corp.
- NAVTEQ ON BOARD is a trademark of NAVTEQ.
- ICEpower® is a registered trademark of Bang & Olufsen ICEpower a/s.

Others

- Some recent audio discs may resemble conventional music CDs but are technically not Compact Discs (CD Red Book format) because of the copy protection technology employed. ECLIPSE cannot guarantee operation and performance if these discs are used.
- DVD-R/RW and DVD+R/RW playback is possible only for discs formatted for video mode.
- VR (Video Recording) mode-recorded discs and discs not finalized will not play in the unit.
- Some PC-authored discs may not play due to software application settings during authoring.
- DVD-R/RW, DVD+R/RW and CD-R/RW playback quality may be affected by disk surface condition and disc format initialization process.
- DVD-R/RW, DVD+R/RW, CD and CD-R/RW discs may not operate perfectly on unit due to disc imperfections.
- DVD-R/RW, DVD+R/RW, CD and CD-R/RW disc performance may suffer if a disc exhibits excessive wear, dirt and scratching
- ATRAC3 is an efficient compression codec for digital music files, allowing files to take up just 1/10 their uncompressed size without degrading audio quality.
- Playback of song data is only possible on Magic Gate-compatible memory stick devices.

- Memory Sticks up to 128MB can be used. Initialization must be executed with Windows 2000 or later.
- ECLIPSE is not responsible for any data loss on a Memory Stick or HDD due to unit failure or malfunction.
- Recorded using ATRAC3 compression, an effective compression codec with minimal negative effect on sound quality.
- Song storage can be less than the representative number of song files depending on each song's bit rate and sampling frequency.

Operation notes

- DVD-Video compatible units are only compatible with NTSC standards and Region-1 DVD-Video discs.
- DVD-Video is disabled when the vehicle is in motion. Inserting a DVD-Video will only allow the audio to be heard.
- The Global Positioning System or GPS was developed in the United States. It is a system that pinpoints a current position making use precisely of radio waves transmitted to earth from 3 or 4 GPS satellites.
- GPS data can sometimes be unavailable due to circumstances such as:
 - Interrupted GPS satellite radio waves because of geographical interference factors such as buildings, tunnels, elevated roads and similar conditions.
 - Unsatisfactory reception due to objects being on or in the near vicinity of the GPS antenna.
 - Interrupted transmission service may sometimes result from periodic maintenance or upgrades being performed by the US-based GPS tracking control system.
 - Transmission can be interrupted or degraded when a digital cellular operating on a 1.5GHz frequency rate is being used in the vicinity of the GPS-enabled unit.

AVN-specific

- AVN7000 map data compiled as of October 2004.
- Do not follow a navigation route if it could place you in an illegal, unsafe, or dangerous situation.
- Navigation controls cannot be operated in a moving vehicle.
- Please do keep in mind however that since emergency service providers sometimes change locations and services, a phone call should be made first to verify current availability before proceeding to the destination.

AVX/CD Receivers-specific

- Use map data while being aware of actual road conditions and obeying traffic rules.
- Some E-ISERV graphic examples may be from pre-release software and may vary slightly from the final version.
- Copying, publishing and the use of maps in electronic media or form are only possible when express written consent has been obtained prior to usage.

FUJITSU TEN LIMITED

Contact: FUJITSU TEN CORP. OF AMERICA
19600 So. Vermont Avenue, Torrance, CA 90502
Call: 1-800-55-ECLIPSE (Dealer Locator)
1-800-233-2216 (Information)

www.eclipse-web.com