

# ECLIPSE



*2007 SPRING Mobile Entertainment Brochure*

# ***ECLIPSE — a great sound story***

ECLIPSE is a specialist company that deepens its commitment to audio even as it develops the navigation and visual technologies that define today's mobile entertainment. Our dedication to expanding the possibilities of the mobile environment and making driving more enjoyable makes ECLIPSE stand out more than ever.

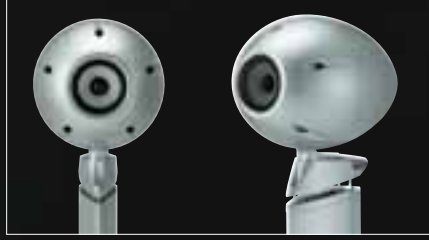


### An audio philosophy that values excellence



Since 1955, our commitment to high fidelity has remained unchanged. Constant research and refining technologies maintain ECLIPSE's position as a leading mobile audio specialist. From anechoic chambers to computer-aided simulation and the latest digital audio research, the ECLIPSE non-compromise approach achieves the best sound possible.

### Technological strengths to nurture superb products



Because the absolute sound is live sound, it is constantly referenced through recording, reproduction and extensive listening as products are developed. Our dedicated research has led to developing the ECLIPSE TD or Time Domain speaker which sees use in professional audio applications as an important monitoring tool.

### Beyond pure performance



Every ECLIPSE product is tested as well as the individual components that are used in a product. From performance characteristics to reliability to sonic and visual attributes, quality checks and inspection procedures are imposed at every stage of a production process. Finished products are again tested and evaluated. It is only by completing such comprehensive processes products meet ECLIPSE standards.



Navigation to go. Anywhere.

AM Series



DESIGN & ENGINEERING SHOWCASE HONORS

INNOVATIONS INTERNATIONAL CES

2007

Popular Mechanics EDITOR'S CHOICE AWARDS



45 mph  
16.1°  
0-22  
Broadway  
1:22

# A new solution with more possibilities

5V<sub>PRE-OUT</sub>



Touch Control	50W × 4	5V Pre-out
Built-in Bluetooth®	USB Connection	Detachable TomTom PND
CD, CD-R/RW	MP3 (CD/USB)	WMA (CD)

#### Accessories

iPod® Full control -ready	SAT Radio-ready	1 AUX Input Ready
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**AVN2210p** NEW WMA Mp3

**In-Dash Portable Navigation with CD/USB Multi-Source Receiver**

The AVN2210p marks the start of a new generation in mobile navigation and entertainment. It brings together all the acclaimed technology of the TomTom Portable Navigation Device (PND) with the high-performance audio, connectivity and system expansion capabilities of ECLIPSE products.

## Bringing the best of both worlds together



### Impressions do matter

A new approach for conventional Portable Navigation Device (PND) mounting options, the AVN2210p has a high-grade professional appearance.

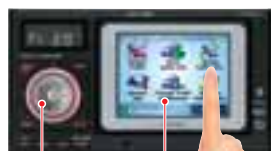
## Design that emphasizes function and ease of use

### Detachable PND section improves security



As with other TomTom PNDs, the AVN2210p's navigation section detaches easily from its docking station. Autonomous, small and light, it can be removed when the car is parked as a theft deterrence measure.

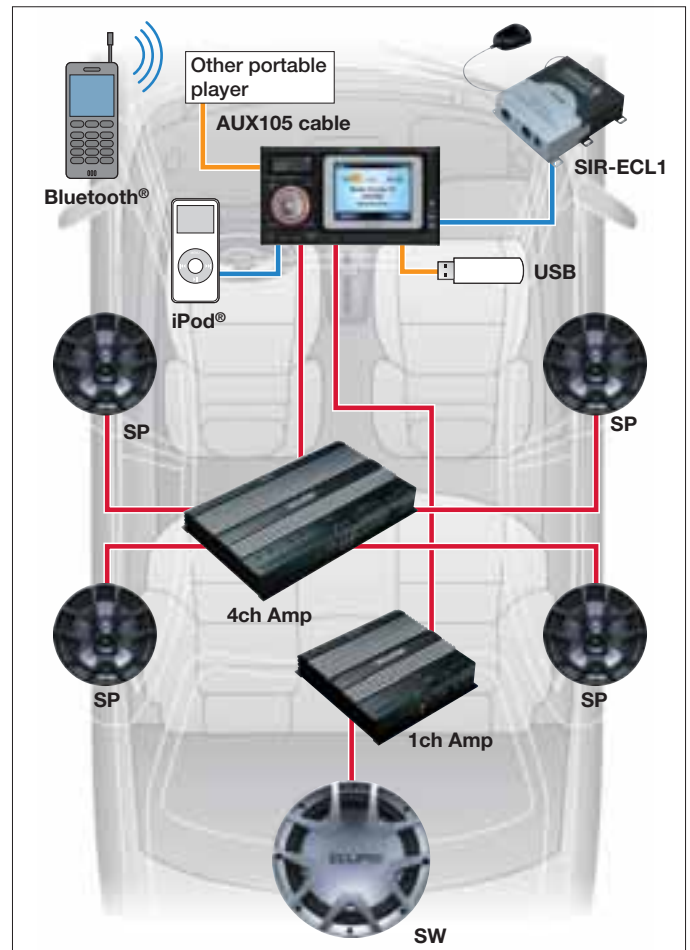
### Simpler to access any desired control



Rotary knob  
Touch control

More intuitive operation is achieved with the multi-function rotary knob and touch control screen that efficiently work to streamline operations and control adjustments, allowing the user to quickly complete complex operations.

## Expansion options for configuring your ideal system



### Dedicated AUX input increases expansion options

Just add the optional AUX105 for connecting personal music players.



## Multiple expansion options enhance functionality

Connectivity for iPod® and USB flash drives as well as hands-free mobile phone operation.



### iPod®-friendly<sup>1</sup>

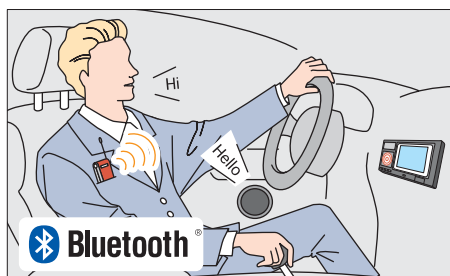
Optional dedicated connection cable<sup>2</sup> to link an iPod® with the unit, allowing full iPod controls and functions.



◀ **USB**

### USB connection<sup>1</sup>

An AVN2210p facilitates digital data portability and playback of MP3 music files transferred to a USB flash drive from PCs.



### Built-in Bluetooth connectivity<sup>1</sup>

Being Bluetooth enabled, the AVN2210p benefits from the Bluetooth expertise of TomTom in hands-free calls. It allows hands-free mobile phone operations with high audio quality via the car speakers.

### Delivers high-performance audio

- 5V PRE-OUT
- Multiformat-capable (CD, CD-R/RW, MP3 and WMA)
- Separate Bass/Mid/Treble controls
- Source Volume Control
- Crossover (low pass filter)
- 50W x 4 channels output

<sup>1</sup> these features are available only when the PND is docked with the main unit. <sup>2</sup> cable to be purchased separately.

## In-car navigation that's more accurate and enjoyable to use

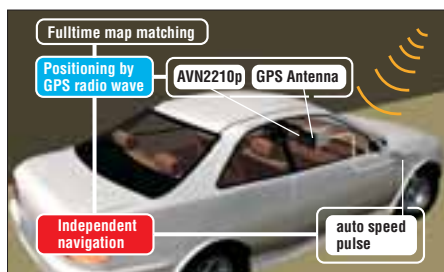
The AVN2210p incorporates TomTom GPS for a total performance that goes well beyond conventional portable navigation units.



### Spoken instructions sound much better

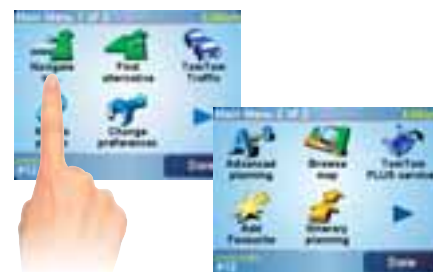
Spoken instructions are heard through the speaker closest to the driver. Program material automatically mutes so spoken instructions are better heard by the driver.

\*Speaker muting characteristics differ when playing program material from auxiliary devices connected to the AVN2210p.



### Navigate well in any condition

The AVN2210p combines GPS information as well as its speed sensor data to ensure perfect navigation even in tunnels or underground sections of roads.



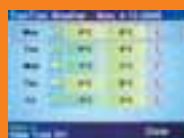
### Convenient touchscreen menu selection

Make a mode selection from the touchscreen menu to be taken to more detailed menus in various categories such as routing and language choices for the spoken instructions.

### TomTom PLUS services

Enjoy optional mobile content<sup>3</sup> on demand using a mobile phone<sup>4</sup> and a wireless data connection. Real-time traffic reports, road plus weather conditions (free service) are downloaded right to the AVN2210p. Other downloadable services include maps, routes, points-of-interest and various guidance voices. TomTom's services are constantly being upgraded and improved. TomTom HOME is a free program to install on your computer so that you can update your TomTom with the latest software and services automatically.

<sup>3</sup> additional charges may apply <sup>4</sup> please check compatible phones at [www.tomtom.com](http://www.tomtom.com)



TomTom Weather

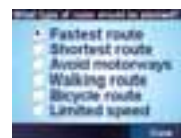


TomTom Traffic

## Making navigation much more functional

### Choose preferred route

A wide selection of various routes are conveniently presented to choose from.



### Multi-language selection

The user-friendly AVN2210p's spoken instructions can be heard in any of 22 languages.



## Feature



### Automatic night mode illumination

The AVN2210p's "factory-fit" installation conveniently makes the unit automatically switch to its night illumination mode when the car's headlights are switched on. This can be manually switched as well.



### Portable on demand

The AVN2210p's TomTom navigation section detaches to provide perfect navigation anywhere — whether it's in-car or detached and used in other cars, or even when walking around outdoors.



### Dedicated Travel Kit TRK-107p option available

- AC Adapter
- Windshield Screen Dock
- Lighter Adapter
- Installation Poster
- USB Cable<sup>5</sup>
- Main Unit Connector Cover

<sup>5</sup> For connecting the AC Adapter to the Lighter Adapter.

## Standard (provided in box)

- SD Card (1GB)  
(Includes map data)
- USB Cable
- Quick Start Guide
- Installation CD  
(Includes TomTom HOME, Full Manual)
- Product Code Card
- Sleeve
- PND Connector Cover

## Accessories



**SIR-ECL1**  
ECLIPSE COMPATIBLE  
SIRIUS SATELLITE RADIO TUNER

### SIRIUS-ready

ECLIPSE offers the optional SIR-ECL1 dedicated tuner for accessing the popular entertainment channels that SIRIUS makes available. Relevant information is clearly displayed on the navigation section's screen.



### TRK-107p Travel Kit

- AC Adapter
- Lighter Adapter
- USB Cable<sup>5</sup>
- Windshield Screen Dock
- Installation Poster
- Main Unit Connector Cover

<sup>5</sup> For connecting the AC Adapter to the Lighter Adapter.

### iPC-107p Direct Cable for iPod®



## Specifications

	AVN2210p
<b>GENERAL</b>	
Power output	50W × 4 (MAX)
Power supply	13.2V DC (11—16V)
Dimensions (W × H × D)	7" × 4" × 6-1/2"
Weight	5.5lbs (2.5kg)
Dimensions (PND only) (W × H × D)	4" × 3" × 1"
Weight (PND only)	0.4lbs (0.2kg)
Operating temperature range	-4°F to 149°F (-20°C — 65°C)
Operating temperature range (PND only)	14°F to 131°F (-10°C — 55°C)
Suitable load impedance	4Ω
<b>DISPLAY</b>	
Display	3.5" TFT
Resolution	230,400 dots (320 × 240 × 3)
<b>FM TUNER</b>	
Frequency range	87.75 — 107.9MHz (200kHz step)
<b>AM TUNER</b>	
Frequency range	530 — 1710MHz (10kHz step)
<b>CD SECTION</b>	
Frequency response	-3±3dB(1kHz:0dB)
<b>USB MEMORY PLAYER SECTION</b>	
USB Interface	1.1
<b>EQUALIZER SECTION</b>	
Bass/Mid/Treble Control	±12dB at 80Hz/±12dB at 700Hz/±12dB at 10kHz/

## Feature List

	AVN2210p
<b>MEDIA</b>	
CD	●
USB Memory	●
<b>NAVIGATION</b>	
<b>Navi Device</b>	
SD Map storage	● (1GB)
<b>Displaying</b>	
Display	3.5" TFT
3D view graphics	●
Day/Night view	●
<b>Operation</b>	
Touch panel control	●
Hands-free calls	●
<b>Searching</b>	
Address search	●
POI Name	●
POI Category	●
Favorite search	●
Recent destinations search	●
Map search	●
Intersection search	●
Coordinates search	●
Home search	●
Town search	●
Last docked search	●

	AVN2210p
<b>NAVIGATION</b>	
<b>Routing</b>	
6 routes choice	●
Itinerary planning	●
Route summary	●
<b>Assistance</b>	
Traffic Information	● (TomTom Traffic)
<b>PORTABLE NAVIGATION</b>	
Battery life	1.30h
Integrated GPS antenna	●
Integrated speaker	●
Accessory Car Dock	●

	AVN2210p
<b>CONTROL</b>	
CD	●
CD-R/RW	●
MP3	CD-R/USB
WMA	CD-R
<b>TUNER</b>	
FM	FM1: 6 FM2: 6 FM3: 6
AM	AM: 6
<b>AUDIO</b>	
Crossover	●
Bass/Mid/Treble control	●
Balance/Fader control	●
Non-Fader/Phase level control	●
Source volume control	●
Amplifier	50W × 4
Preamplifier output	F/R/NF, 5V
<b>SECURITY</b>	
Detachable structure (PND part)	●
<b>OTHER</b>	
Bluetooth	●
<b>OPTIONAL</b>	
iPod® Full control-ready	●
SAT radio-ready	●
AUX-ready	●

# AVN<sup>®</sup> HDD Series

AVN Series

Full-featured AVN in a compact 1-DIN configuration



ESN WMA M-P3 DVD VIDEO DD DOLBY DIGITAL CTS MEMORY STICK MAGICGATE HD Radio READY SIRIUS

## AVN7000

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

### Navigation

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

- Multiple search modes
- Split screen displays in navigation
- Map scale from 150 feet to 250 miles
- Time zone (7 areas including Hawaii)
- Voice guidance in English and French

### Audio/Visual

DVD Video	Dual zone operation	MOSFET 50W x 4	5.1 ch. SOUND (option)	E-iSERV connectivity (option)
Dual color illumination	FM/AM	Advanced 24-bit DAC	7-band PEQ	Time alignment
Crossover	Listening Position Selector	Memory Stick DUO	MS ESN security	Detachable front panel

- 5V preamp output (with DCU105)
- AV output for rear monitor
- AV input

### Accessories

CD Changer -ready (2 units)	TV Tuner -ready	SIRIUS Satellite Radio -ready	HD Radio -ready	Rear view camera -ready
Side view camera -ready*1	TEL Mute	iPod <sup>®</sup> control -ready*2		

## DCU105 Audio Video Matrix

Adding the optional DCU105 transforms a front 3-way system to a full theater-level 5.1 ch. surround system.



## DCU105

DD DOLBY DIGITAL CTS SURROUND

5.1ch. Decoder/AV Matrix Unit

Dimensions (W x H x D)  
6-15/16" x 1-7/16" x 6-5/16" 175 x 36.5 x 160mm  
(for AVN7000, AVX5000)

HDD-based unit with 3,000 song Music Juke feature

5V<sup>PRE-OUT</sup>



ESN M-P3 DVD VIDEO DD DOLBY DIGITAL MEMORY STICK MAGICGATE HD Radio READY SIRIUS

## AVN5495

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

### Navigation

30GB HDD	6.5" wide display
Touch control	approx. 3 million POIs

- Multiple search modes
- Split screen displays in navigation
- Map scale from 150 feet to 250 miles
- Time zone (5 areas including Hawaii)
- Voice guidance in English and French

### Audio/Visual

DVD Video	50W x 4	3,000 track Music Juke	CDDB-enabled	Circle Surround II
FM/AM	Advanced 24-bit DAC	5-mode acoustic control	9-band GEQ	Listening Position Selector
Memory Stick	MS ESN security			

- 5V preamp output
- Video output for rear monitor
- AV input

### Accessories

CD Changer -ready (2 units)	SIRIUS Satellite Radio -ready	HD Radio -ready	Rear view camera -ready	Side view camera -ready*
iPod <sup>®</sup> control -ready*2				

\*1: Operation requires CAB106 Power Supply.

\*2: Some operations may be limited. Please refer to all control details on p25.



The 30GB HDD holds 3,000 music tracks for an incredible mobile jukebox.



**Dual Play delivers independent entertainment for driver and passengers**

**NEW** 5V PRE-OUT



ESN WMA Mp3 DISC VIDEO DVD DIGITAL DOLBY DIGITAL SRS CIRCLE SURROUND HD Radio READY SIRIUS READY

## AVN6610

DVD Navigation System with 7" Wide TFT Display and Dual DVD Multi-Source Receiver

### Navigation

DVD Navigation	7" wide display
Touch control	approx. 8.55 million POIs
City map	Traffic Information

- Multiple search modes
- Split screen displays in navigation
- Map scale from 150 feet to 250 miles
- Time zone (4 areas)
- Voice guidance in English, French and Spanish

### Audio/Visual

DVD Video	Dual zone operation	50W x 4	Circle Surround II	FM/AM
Advanced 24-bit DAC	7-band PEQ	Crossover	Listening Position Selector	

- 5V preamp output
- AV output for rear monitor
- AV input

### Accessories

CD Changer -ready (2 units)	TV Tuner -ready	SIRIUS Satellite Radio -ready	SIRIUS Traffic Radio -ready	HD Radio -ready
Side view camera -ready*	Rear view camera -ready	TEL Mute	Parrot Bluetooth -ready	iPod Full control -ready



Because the AVN6610 has 2 DVD decks (1 for navigation) rear seat entertainment can be enjoyed simultaneously with navigation.

Dual play provides independent front and rear entertainment options.



### RRC 106 Remote Control for Rear Seat Entertainment

This remote is for use with dual play to control the rear monitor.  
Optional for: AVN6610

**Wide 7" display, 5V preamp output and other premium features**

**NEW** 5V PRE-OUT



ESN WMA Mp3 DISC VIDEO DVD DIGITAL DOLBY DIGITAL SRS CIRCLE SURROUND HD Radio READY SIRIUS READY

## AVN5510

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

### Navigation

DVD Navigation	7" wide display
Touch control	approx. 8.55 million POIs
City map	

- Multiple search modes
- Split screen displays in navigation
- Map scale from 150 feet to 250 miles
- Time zone (4 areas)
- Voice guidance in English, French and Spanish

### Audio/Visual

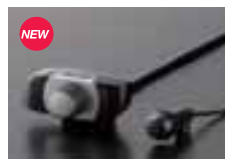
DVD Video	50W x 4	Circle Surround II	FM/AM	Advanced 24-bit DAC
7-band PEQ	Crossover	Listening Position Selector		

- 5V preamp output
- AV output for rear monitor
- AV input

### Accessories

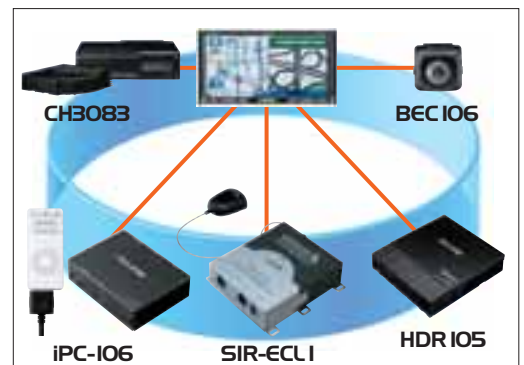
CD Changer -ready (2 units)	TV Tuner -ready	SIRIUS Satellite Radio -ready	HD Radio -ready	Side view camera -ready*
Rear view camera -ready	TEL Mute	Parrot Bluetooth -ready	iPod Full control -ready	

\*Operation requires CAB106 Power Supply.



### BT-E600/BT-E500 Hands-Free Car Kits Parrot Bluetooth®

Allows hands-free operation with the AVN6610 (BT-E600) and AVN5510 (BT-E500) using any Bluetooth-enabled cellular phone so incoming calls can be heard over system speakers and calls can be made with voice control over phonebook entries.



Basic high performance and built-in expandability makes the AVN5510 ideal as the heart of even the most complex system.

# 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.

Conveniently focuses on a general region for more efficient searching. All searching starts with selecting the general area the destination is in.



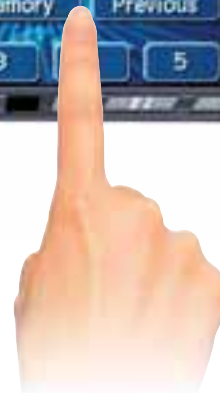
## Home search

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

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

## Quick Access Points

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



## Emergency

Most required information right away.



In an emergency, AVN notes the car's position and only displays the closest emergency services such as police and hospitals.

## Address search

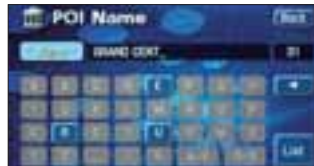
An address is all that is needed.



Input a street name and number to initiate a search.

## POI Name

Convenient presets for general inquiries save time.



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

## Map search

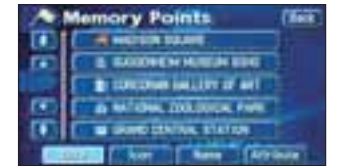
No more wasted time looking for a map.



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

## Memory Points

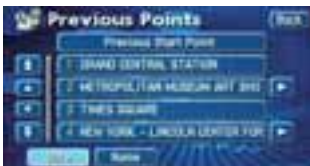
Presets for instantly accessing a location.



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

## Previous Points

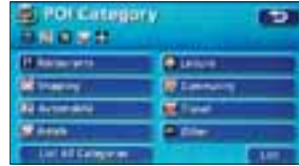
Where the car has been.



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

## POI Category \*1

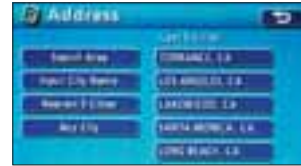
Making it simple to find locations.



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

## City search \*2

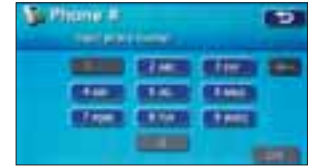
A speed search that can be activated by city or nearby vicinity.



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.

## Phone Number \*1

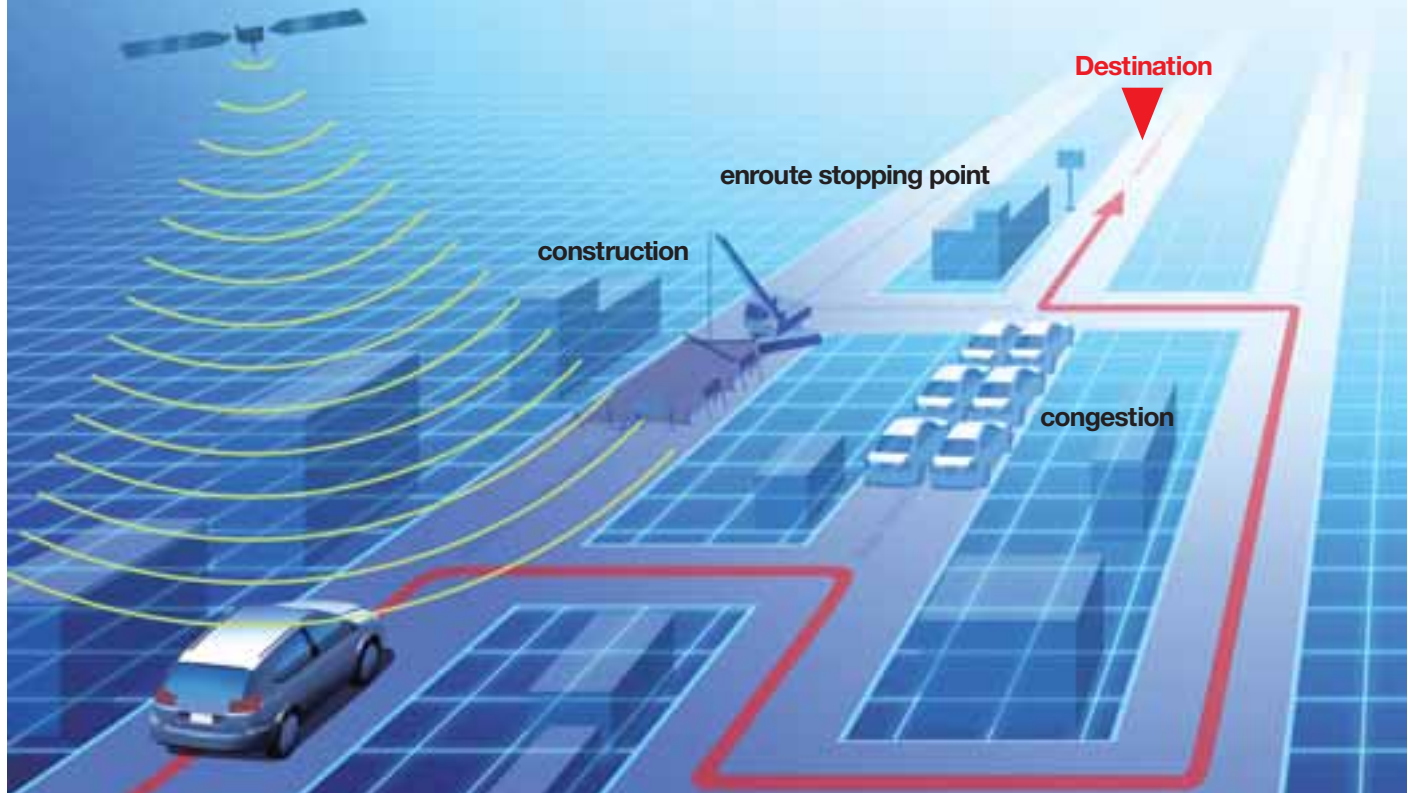
Alternately, a telephone number will result in a search.



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

\*1: AVN7000, AVN5495 only. \*2: AVN7000, AVN6610, AVN5510 only.

## Multiple selection of routes to choose from



### SIRIUS Traffic (Optional for : AVN6610)



This optional SIRIUS service offers breaking reports regarding accidents, road closings, traffic flow/congestion and other conditions to maintain smooth user progress. The SIR-ECL2nt integrates seamlessly with the car's own AVN system with SIRIUS Traffic real-time data enhancing mapping.

### 3 routes



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

### Route preference



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

### 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, or ATM.

### Detours

Program locations prone to problems.



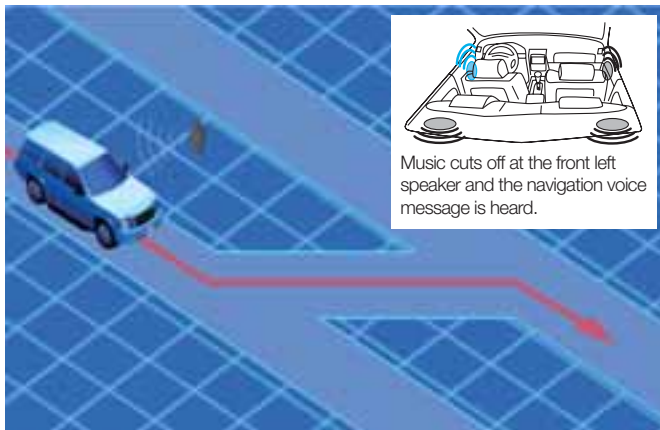
Now it is easy to avoid up to 10 chronically congested and problem areas. Simply select an onscreen area, drag to resize it up or down as desired and the best detours are presented.

### Route preview



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

# Comprehensive assist features make driving easier



### Voice announcements and guidance

#### No more missed turns.

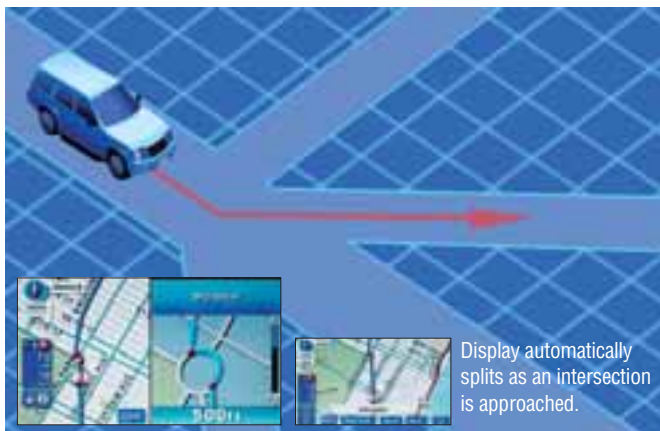
For stress-free driving, AVN advises upcoming turns and will continue to warn as the turn approaches. Other guidance for curves and driving lanes will also be announced.



### Auto rerouting

#### Instant response ensures no wasted time.

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



### Intersection zooming

#### Display zooms up just when needed.

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 AVN 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.

### Freeway assistance

Useful when faced with unfamiliar locations, AVN makes it foolproof to get on hard-to-locate freeway entrances, offering smooth guidance through the most complex interchanges and getting off exactly where required.

#### 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 AVN 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.

# Making navigation easier than ever

## POI displays

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 is displayed.



POI genres simultaneously onscreen: 5



Information regarding a POI also appears on the display.

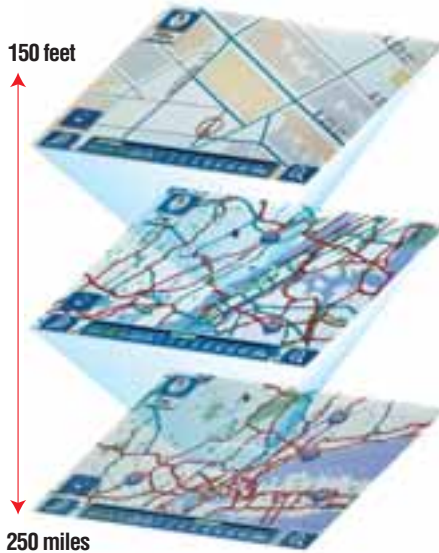
## Driving distance and arrival time displays

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



## 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.

## Time zones



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

## 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.

## Mapping coverage

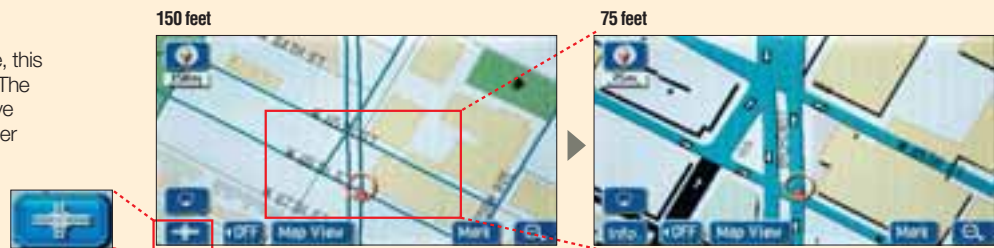


AVN6610 and AVN5510 navigation databases do not include Hawaii.

## Brand new display mode for easier urban navigation

### City Map

A new addition to navigation assistance, this mode is accessed through the button. The display shows a detailed view to improve recognition of streets, buildings and other identifying points. (AVN6610, AVN5510 only)



Note: Most display images on p6-p9 are from the AVN6610. Please consult respective models for their features/functions as there may be some differences.

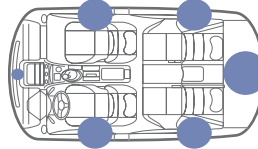
# Creating an ideal system for your specific preferences



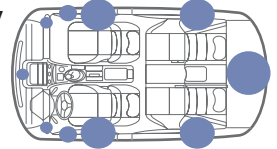
## AVN7000 + DCU105

Adding a DCU105 to the AVN7000 instantly opens up a wealth of system expansion possibilities that satisfy all occupants in a car with personalized entertainment options.

Front 1-way

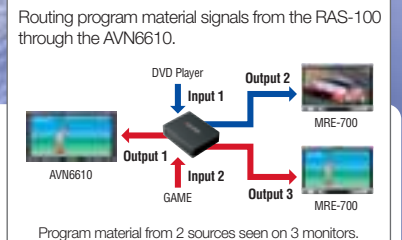
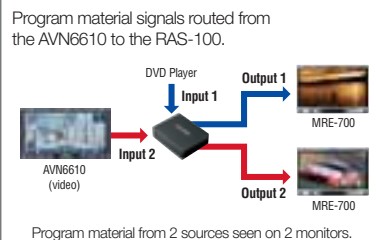


Front 3-way



## AVN6610/AVN5510/AVN5495 + MRE-700W

For the above-listed AVN products, adding the RAS-100 AV Matrix enables putting together an ideal rear seat entertainment system with full routing and switching capabilities.



# Accessories for system expansion

## For digital radio applications:



**SIRIUS Traffic**  
**SIRIUS SATELLITE RADIO**

**SIR-ECL2nt**  
**ECLIPSE COMPATIBLE SIRIUS SATELLITE RADIO TUNER**

Dimensions (W x H x D)  
5-7/16" x 1-7/16" x 4-3/16"  
126 x 35 x 105mm

Get instant access to SIRIUS satellite-based RTTI information for useful real-time traffic conditions. Whether traffic jams, congested areas or open streets, all information is clearly displayed onscreen, enhancing AVN navigation and offering additional driving advice.

**For AVN6610 only**



**SIRIUS SATELLITE RADIO**

**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

Optional for:  
AVN7000, AVN5495, AVN6610, AVN5510, AVX5000, CD7100, CD5100, CD3100 and CD2000



**HD Radio®**

**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

Optional for:  
AVN7000, AVN5495, AVN6610, AVN5510, AVX5000, CD7100, CD5100, CD3100 and CD2000

## For expanding entertainment options:



Photo: AVN6610

**IPC-106**  
**Interface Adapter for iPod®**

Allows enjoying favorite music from an iPod. Also recharges when connected.

Full control: AVN6610, AVN5510, CD7100, CD5100 and CD3100

Made for iPod

Dimensions (W x H x D)  
4-11/16" x 1-5/16" x 3-9/16"  
120 x 32 x 90mm



**MRE-700**  
**7" Widescreen Monitor**

Its slim and silver-colored enclosure adds the perfect touch of style to rear entertainment systems, featuring automatic screen dimming to suit ambient light, a built-in speaker and headphones jack. Dedicated WHP-100 wireless headphones can also be used. AV inputs are on front and back of unit.

Dimensions (W x H x D):  
6-3/4" x 1-1/16" x 4-9/16"  
171.5 x 25.5 x 115.1mm




**MRE-700W**  
**7" Widescreen Monitor Package**

Contains all the components and hardware that is required to create an ideal rear entertainment system.

**Includes:**  
MRE-700 x 2, RAS-100 (AV Matrix), dedicated wireless remote control.

**WHP-100**  
**Wireless Headphones**

These wireless headphones are ideal for rear entertainment when different program sources are simultaneously being played. Switchable between 2 frequencies.



**E505CSP**  
**Center Speaker with Power Amplifier**


The easiest way to enjoy surround sound by adding a central active speaker.



**TVR105**  
**TV Tuner Unit**

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

Optional for:  
AVN7000, AVN6610, AVN5510 and AVX5000



**BT-E600/BT-E500**  
**Hands-Free Car Kits**  
Parrot Bluetooth®

Allows hands-free operation with AVN6610 (BT-E600) and AVN5510 (BT-E500).



**CH3083**  
**8-Disc CD Changer with Magazine Unit**

**RMC105**  
**Wireless Remote**

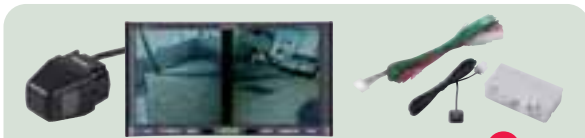
## For more driving assistance:



**BEC106**  
**Rear View Camera**

The BEC106 optional rear camera can be connected to the AVN units to facilitate parking.

Note: Using the BEC106 alone does not require the CAB106 Power Supply for Camera.

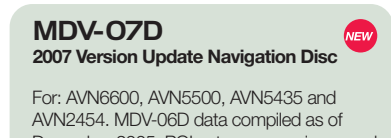


**FEC106**  
**Side View Camera**

Front-mount camera that scans the sides as well as the front of the vehicle. Easily mounts behind the grille. Requires CAB106 Power Supply for Camera to be used.

Note: Using the BEC106 together with the FEC106 also requires the CAB106 Power Supply for Camera.

**CAB106**  
**Power Supply for Camera**



**MDV-07D**  
**2007 Version Update Navigation Disc**

For: AVN6600, AVN5500, AVN5435 and AVN2454. MDV-06D data compiled as of December 2005. POI category now increased to 8.55 million points and City Maps® cover more areas.

\*For City Map coverage details please go to the ECLIPSE website.

Note: For connection details of each unit, please see p13.

## Features List

	AVN7000	AVN5495	AVN6610	AVN5510
<b>MEDIA</b>				
HDD	1.8" 20GB	30GB	—	—
DVD	●	●	●	●
CD	●	●	●	●
SONY Memory Stick	●*1 (MS Duo only)	●	—	—
<b>NAVIGATION</b>				
<b>Navigation Device</b>				
HDD Navigation	●	●	—	—
DVD Navigation	—	—	●	●
Ultima Engine	●	—	—	—
<b>Displaying</b>				
Display	7" EGA	6.5" EGA	7" EGA	7" EGA
Split screen	●	●	●	●
Street name	●	●	●	●
Point-of-Interest (POI)	approx. 4,000,000 points	approx. 3,150,000 points	approx. 8,550,000 points	approx. 8,550,000 points
City map	—	—	●	●
<b>Operation</b>				
Touch panel control	●	●	●	●
<b>Searching</b>				
Address search	●	●	●	●
POI Name	●	●	●	●
POI Category	●	●	—	—
Emergency search	Hospital/Police	Hospital/Police	Hospital/Police	Hospital/Police
Memory search	●	●	●	●
Previous search	●	●	●	●
Map search	●	●	●	●
Intersection search	●	●	●	●
Freeway search (ENTER/EXIT)	●	●	●	●
Coordinates search	●	●	●	●
Telephone number search	●	●	—	—
Home search	●	●	●	●
Quick access point search	●	●	●	●
<b>Routing</b>				
3 routes information	●	●	●	●
Detours	●	●	●	●
Enroute stopping points	●	●	●	●
Route preview	●	●	●	●
<b>Assistance</b>				
Real Time Traffic Information	—	—	● (SIRIUS Traffic)	—
Voice guidance	English/French	English/French	English/French/Spanish	English/French/Spanish
Voice guidance switch L/R	●	—	—	—
Voice guidance volume control	●	●	●	●
Intersection zooming	●	●	●	●
Freeway assistance	●	●	●	●
Auto rerouting	●	●	●	●
Estimated arrival time	●	●	●	●
<b>SECURITY</b>				
ECLIPSE Security Network	●	●	●	●
Detachable front panel	●	—	—	—
<b>OTHER</b>				
TEL Mute	●	●	●	●

\*1: Sony Magic Gate Memory Stick Duo is sold separately.

## Specifications

	AVN7000	AVN5495	AVN6610	AVN5510
<b>GENERAL</b>				
Power output	MOSFET 50W × 4 (MAX)	50W × 4 (MAX)	50W × 4 (MAX)	50W × 4 (MAX)
Power supply	13.2V DC (11—16V)	13.2V DC (11—16V)	13.2V DC (11—16V)	13.2V DC (11—16V)
Dimensions (W × H × D)	7" × 2" × 6-1/2" (180 × 50 × 165mm)	7" × 4" × 6-1/2" (180 × 100 × 165mm)	7" × 4" × 6-1/2" (180 × 100 × 165mm)	7" × 4" × 6-1/2" (180 × 100 × 165mm)
Weight	5.1lbs (2.3kg)	7.9lbs (3.6kg)	7.0lbs (3.2kg)	7.3lbs (3.3kg)
<b>DISPLAY</b>				
Display	7" wide (16:9), low-glare panel	6.5" wide (16:9), low-glare panel	7" wide (16:9), low-glare panel	7" wide (16:9), low-glare panel
Resolution	336,960 dots (480 × 234 × 3)	280,800 dots (400 × 234 × 3)	336,960 dots (480 × 234 × 3)	336,960 dots (480 × 234 × 3)
Screen aspect ratio	4 types	4 types	4 types	4 types
<b>FM TUNER</b>				
Frequency range	87.75 — 107.9MHz (200kHz step)	87.75 — 107.9MHz (200kHz step)	87.75 — 107.9MHz (200kHz step)	87.75 — 107.9MHz (200kHz step)
Usable sensitivity	19dBf (98.1MHz)	12dBf (98.1MHz)	12dBf (98.1MHz)	12dBf (98.1MHz)



AUDIO	AVN7000			AVN5495	AVN6610	AVN5510
	AVN7000 only	DCU105 connected				
		Front-1 way system	Front-3 way system			
<b>DVD</b>						
DVD-Video		●		●	●	●
DVD-R/RW, DVD+R/RW *2		●		●	●	●
Dolby Digital 5.1ch.	—		●	—	—	—
dts 5.1ch.	—		●	—	—	—
Dolby Pro Logic II	—		●	—	—	—
<b>CD</b>						
CD		●		●	●	●
CD-R/RW		●		●	●	●
MP3		●		●	●	●
WMA		●		—	●	●
<b>MS</b>						
ATRAC3		● (SONY Magic Gate Memory Stick Duo)		●	—	—
<b>Audio function</b>						
MUSIC JUKE		—		● (3,000 tracks)	—	—
Circle Surround II		—		●	●	●
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		—	7 bands	7 bands
Graphic EQ	—	—	—	9 bands	—	—
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		MP3/ATRAC3	MP3/WMA	MP3/WMA
Sound Field Control		—		—	5 modes	5 modes
Listening Position selector		FR, FL, F, R, OFF		●	●	●
Non Fader Level/Phase control		●		●	●	●
Woofer output		●		●	●	●
E-iSERV Connectivity	—	● (Audio customize)		—	—	—
<b>Audio device</b>						
Amplifier		MOSFET 50W × 4		50W × 4	50W × 4	50W × 4
Advanced 24-Bit $\Delta\Sigma$ DAC		●		●	●	●
Pre Amp Output	F/R/NF, 2V	Front/Rear/Center/Subwoofer, 5V		F/R/NF, 5V	F/R/NF, 5V	F/R/NF, 5V
AV Output		●		▲ (video only)	●	▲ (video only)
AV Input		●		●	●	●
Digital Output (Coaxial)		●		—	—	—
Digital Input (Coaxial)	—	●		—	—	—
Digital Input (Optical)	—	●		—	—	—
<b>Analogue radio tuner</b>						
FM		FM1: 6, FM2: 6, FM3: 6		FM: 6	FM1: 6, FM2: 6, FM3: 6	FM1: 6, FM2: 6, FM3: 6
AM		AM: 6		AM: 6	AM: 6	AM: 6
<b>OPTIONAL</b>						
Ready for iPod®		▲*3		▲*3	●	●
HD Radio-ready		●		●	●	●
SIRIUS SATELLITE RADIO-ready		●		●	●	●
CD Changer-ready		2 (daisy chain)		2 (daisy chain)	2 (daisy chain)	2 (daisy chain)
Rear View Camera-ready		●		●	●	●
TV Tuner-ready		●		—	●	●
Rear Monitor output	1	2		1	1	1
Parrot Bluetooth®-ready		—		—	●	●

\*2: Please refer to Notes and Precautions. \*3: Please refer to iPod Control Function chart on p25.

	AVN7000	AVN5495	AVN6610	AVN5510
<b>AM TUNER</b>				
Frequency range	530 — 1.710kHz (10kHz step)	530 — 1.710kHz (10kHz step)	530 — 1.710kHz (10kHz step)	530 — 1.710kHz (10kHz step)
Usable sensitivity	22 $\mu$ V	22 $\mu$ V	22 $\mu$ V	22 $\mu$ V
<b>CD SECTION</b>				
Frequency response	20 — 20,000Hz $\pm$ 3dB	20 — 20,000Hz $\pm$ 3dB	20 — 20,000Hz $\pm$ 1dB	20 — 20,000Hz 0 $\pm$ 2dB
Total harmonic distortion	0.04% (0dB 1kHz)	0.04% (0dB 1kHz)	0.01% (0dB 1kHz)	0.01% (0dB 1kHz)
<b>MS SECTION</b>				
Frequency response	20 — 20,000Hz $\pm$ 3dB	20 — 20,000Hz $\pm$ 3dB	—	—
Total harmonic distortion	0.04% (0dB 1kHz)	0.04% (0dB 1kHz)	—	—
<b>EQUALIZER SECTION</b>				
Equalizer	63Hz — 16kHz (25 points) $\pm$ 10dB	63Hz — 12kHz (1/2oct.step) $\pm$ 10dB	63Hz — 16kHz (25 points) $\pm$ 10dB	63Hz — 16kHz (25 points) $\pm$ 10dB
<b>HDD SECTION</b>				
Operating temperature range	-10 — 65°C	-10 — 65°C	—	—
Storage temperature range	-40 — 70°C	-40 — 85°C	—	—

# AVX5000 + DCU105



## AVX5000

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



HD Radio SIRIUS

### Audio/Visual

7" wide display	Touch control	MOSFET 50W x 4	5.1 ch. SOUND (option)	E-ISERV connectivity (option)
Dual color illumination	FM/AM	Advanced 24-bit DAC	7-band PEQ	Time alignment
Crossover	Listening Position Selector	Memory Stick DUO	MS ESN security	Detachable front panel

- 5V preamp output (with DCU105)
- AV output for rear monitor
- AV input

### Accessories

CD Changer-ready (2 units)	TV Tuner-ready	SIRIUS Satellite Radio-ready	HD Radio-ready	Rear view camera-ready
Side view camera-ready*1	iPod® control-ready*2			

\*1: Operation requires CAB106 Power Supply.  
 \*2: Some operations may be limited. Please refer to all control details on p25.

### Dedicated to providing the best in entertainment

The AVX5000 is an elegant and compact unit that effortlessly handles program material on DVD, CD, and Memory Stick with its uncompromising build quality and use of premium parts and components. The AVX5000 can also be partnered with the amazing DCU105 Audio Video Matrix to take advantage of complete surround features and functions as well as versatile signal routing to increase system expansion options. This allows DVD Dual Play so that the front and rear passengers can enjoy separate entertainment. In addition, E-ISERV connectivity enables easy comprehensive audio customization to optimize system response for any car.

### Stylish appearance complements any cockpit



Featuring a sophisticated design and appearance that enhances any interior, the AVX5000 sports a matte black finish with translucent acrylic and silver design accents that give it a stylish look. Its slim, single DIN dimensions contain a large, high-resolution 7" display that emerges at the touch of a button.

### 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.



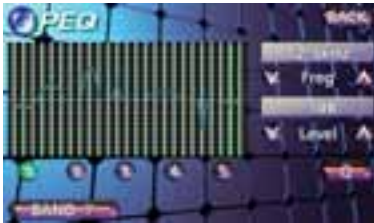
**GPS105**  
 Adding the GPS105 will display the car's location as it moves!  
 Optional for:  
 AVX5000, CD7100 and CD5100

**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.



## AVX5000 — Standard operations

### 7-band Parametric EQ



Effective PEQ method for quickly creating a satisfactory acoustic environment to suit program material or preference.

### 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.

### Specifications

	AVX5000
14.4V Power Supply	50W × 4
Max. Power Output	50W × 4
Display	7" wide (16:9), low-glare panel
Display Resolution	336,960 dots (480 × 234 × 3)
Screen Aspect Ratio	4 types
FM Frequency Range	87.75 — 107.9MHz (200kHz step)
Usable Sensitivity	15dBf
AM Frequency Range	530 — 1710kHz (10kHz step)
Usable Sensitivity	24µV
CD Frequency Response	20 — 20,000Hz, -2±2dB — 0±2dB
Total Harmonic Distortion	0.03% (0dB, 1kHz)
Equalizer	Parametric: 63Hz — 16kHz±10dB, (25 points)
Dimensions (W × H × D)	7" × 2" × 6-1/2" (180 × 50 × 165mm)
Weight	4.8lbs (2.2kg)

## Full 5.1 ch. surround sound options that create the perfect in-car environment for any entertainment media.

### DCU105 Audio Video Matrix

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



### DCU105



#### 5.1ch. Decoder/AV Matrix Unit

Dimensions (W × H × D)

6-15/16" × 1-7/16" × 6-5/16"

175 × 36.5 × 160mm

(For AVN7000 and AVX5000)

Dolby Digital 5.1 ch.

dts 5.1 ch.

Dolby Pro Logic II

E-ISERV connectivity (option)

Time Alignment Pro

Crossover Pro

Parametric EQ Pro

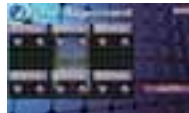
AV Matrix Selector

5V Pre-Out

MOSFET 50W × 4

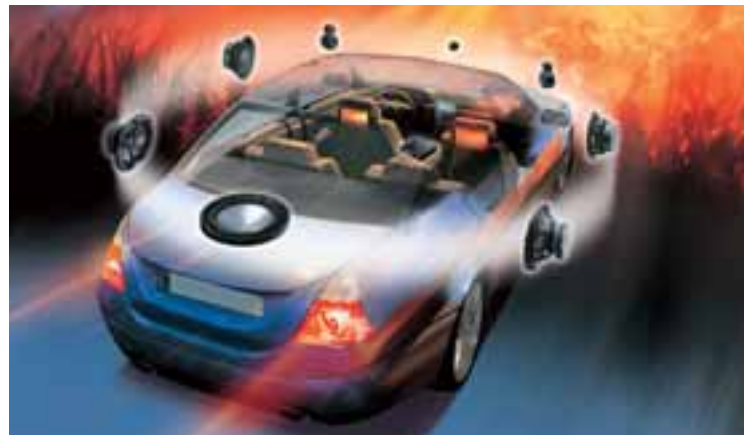
#### Time Alignment Pro

Synchronizes all speaker sound arrival times at listener.



#### Crossover Pro

Optimizes speaker to speaker transitions for a smoother system response.



# Going beyond entertainment

CD Receivers



# Head of the class by a long shot



- USB Connection
- Color OEL display
- E-iSERV connectivity
- Area Shot
- MOSFET 50W x 4
- 11-band / 7-band PEQ
- Time alignment
- Crossover
- Circle Surround II
- 8V Pre-Out
- 6-pattern Illumination
- Twin Security System
- Remote Control
- E-LAN data link system
- AUX Input

- Accessories**
- GPS unit -ready
  - 1 AUX Input Ready
  - iPod® Full control -ready
  - SAT Radio-ready
  - HD Radio-ready
  - CD Changer -ready (2 units)

## CD7100 NEW

CD/USB Multi-Source Receiver with Color Organic EL Display

Highend audio performance and driving assistance combine for an unbeatable performer.

### 24-bit DSP

At the heart of the CD7100 is a 24-bit DSP that takes care of various audio processing tasks including unit input level, precision EQ settings and others. ECLIPSE has made sure its no-compromise audio technologies deliver extraordinary audio performance.

### Speaker layout changeable



Automatically optimize overall system response for a Front-3 way speaker system or higher performance 4-speaker plus subwoofer speaker system.

### X-OVER



Easily set the crossover frequencies for the separate speakers in the system for a smooth, seamless blending between them, providing an effortless, more natural sound at any volume.

### Time Alignment



Sophisticated processing to ensure the sound from all speakers arrives at the listener's ears at the same time and in correct phase for the best listening experience.

### 11 band / 7 band Parametric EQ



Precision tonal response contouring is easy with this advanced parametric equalization function, creating a flat system frequency response as well as storable EQ curves to suit listening and music genre preferences.

### USB Connector

For taking advantage of digital music library portability with USB memory devices and music players to enjoy music files as well as E-iSERV and Area Shot data.



### Interface Adapter for iPod®

The optional iPC-106 can effectively control a connected iPod®. Connected to a CD receiver, the adapter provides full control capabilities and the Rotary Mode Switch will quickly scroll up and down many songs as well as Playlists, Artists, Albums and Genres.



### Color Organic EL Display

Bright legible makes it easy to follow driving assistance maps and routes. It also makes finding favorite tracks from large playlists fast and fuss-free.

### 6 Pattern Illumination



Blue / Red    Blue / Green    Blue / Amber    All red    All green    All amber



# Setting a new benchmark in its class



- USB Connection
- OEL display
- E-iSERV connectivity
- Area Shot
- MOSFET 50W x 4
- 3-band PEQ
- 5-mode EQ
- Crossover
- Detachable front panel
- Remote Control
- E-LAN data link system
- AUX Input

**Accessories**

- GPS unit -ready
- 1 AUX Input Ready
- iPod® Full control -ready
- SAT Radio-ready
- HD Radio-ready
- CD Changer -ready (2 units)

## CD5100 NEW

CD/USB Multi-Source Receiver with Organic EL Display

### 3 Band Parametric EQ



Flexible equalization for Bass, Mid and Treble with center frequency bandwidth control for optimizing tonal response.

Freq. bands	"Q" bandwidth	Center freq.
BASS	WIDE/MidWIDE/NORMAL/NARROW	60Hz/80Hz/100Hz/120Hz
MID	NORMAL/NARROW	700Hz (Fixed)
TRE	NORMAL (Fixed)	7.5Hz/10kHz/12.5kHz/15kHz

### 4 Mode Preset EQ

4 preset EQ settings (Defeat, Sharp, Vocal and Power) to suit listener preferences and music genres.

### User-customizable EQ preset

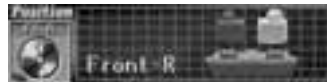
Allows configuring a user's own EQ setting to apply as desired.

### X-Over



Easy adjustments allow seamlessly blending system speakers and dedicated subwoofer(s) for a more natural, effortless sound with greater dynamic range.

### Simplified Position Selector



Electronically compensates to ensure an optimal and balanced soundfield no matter where listeners are seated. Fr-R / Fr-L / Fr / Rear / off

### Monochrome Organic EL Display



This type of display features a self-luminous property that allows a wide viewing angle, and increased contrast ratio offering a very legible and clear display for at-a-glance confirmation of status.

### Sound Meter



### USB Connector



For taking advantage of digital music library portability with USB memory devices and music players to enjoy music files. Also useful for transferring E-iSERV and Area Shot data from PC to head unit.

## Features

### Interface Adapter for iPod®

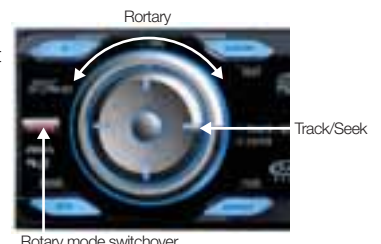
The optional iPC-106 can effectively control a connected iPod®. Connected to a CD Receiver, the adapter provides full control capabilities and the Rotary Mode Switch will quickly scroll up and down many songs as well as Playlists, Artists, Albums and Genres.



Photo: CD5100

### New Rotary Control

Well-designed interface makes it quick and easy to select tracks and seek files even from a large capacity USB device.



# Redefining just how advanced entry level can be



- E-ISERV connectivity
- Area Shot (Text)
- MOSFET 50W x 4
- 3-band PEQ
- 5-mode EQ
- Crossover
- Detachable front panel
- 3 color LCD
- Remote Control
- E-LAN data link system



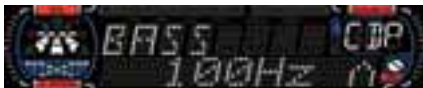
### Accessories

- 1 AUX Input Ready
- iPod® Full control -ready
- SAT Radio-ready
- HD Radio-ready
- CD Changer -ready (2 units)

## CD3100 NEW

CD Multi-Source Receiver

### 3 Band Parametric EQ



Flexible equalization for bass, mid and treble with center frequency bandwidth control for optimizing tonal response.

Freq. bands	"Q" bandwidth	Center freq.
BASS	WIDE/MidWIDE/NORMAL/NARROW	60Hz/80Hz/100Hz/120Hz
MID	NORMAL/NARROW	700Hz (Fixed)
TRE	NORMAL (Fixed)	7.5Hz/10kHz/12.5kHz/15kHz

### X-Over



Easy adjustments allow seamlessly blending system speakers and dedicated subwoofer(s) for a more natural, effortless sound with greater dynamic range.

### Sound Meter



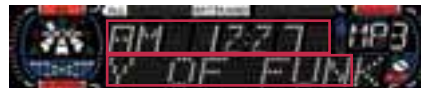
Adding an animated feel to the display, the Sound Meter offers a realtime frequency spectrum display and also indicates media playback in progress.

### An entry level product that offers more than any other in its class



The CD3100 has a high level of basic performance as well as extraordinary expandability. Other sources such as an iPod®, SIRIUS tuner, and CD Changer connect easily and compatibility with MP3 and WMA files allows the CD3100 to break out of entry level limitations.

### Display Pattern



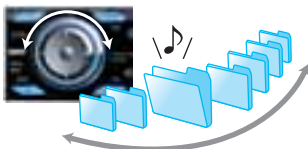
A bright and legible display that manages to simultaneously show 2 information levels indicating track status such as elapsed time and others along with the Sound Meter. Various information displays can also have their positions switched as desired.

For example, when playing back MP3s and WMA files.



### File list display

Makes it fast and easy to search through numerous folders and files to locate the desired music files.



### Detachable Front Panel

The front panel easily detaches from the unit, making it totally inoperative once removed and increasing theft deterrence as well.



This is where E-iSERV starts! — [www.eclipse-web.com](http://www.eclipse-web.com)

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.

Data customized for the user's own car and map data for Area Shot is downloaded from E-iSERV, put on a USB device or CD, then input into the head unit.

\*The free map download feature is subject to change as required. It may also be discontinued.

**Audio Customize**

An in-car environment is hard to optimize for natural sound with its mix of reflective and absorptive surfaces. E-iSERV can be used to achieve a pro-level, flat frequency response that sounds superb.

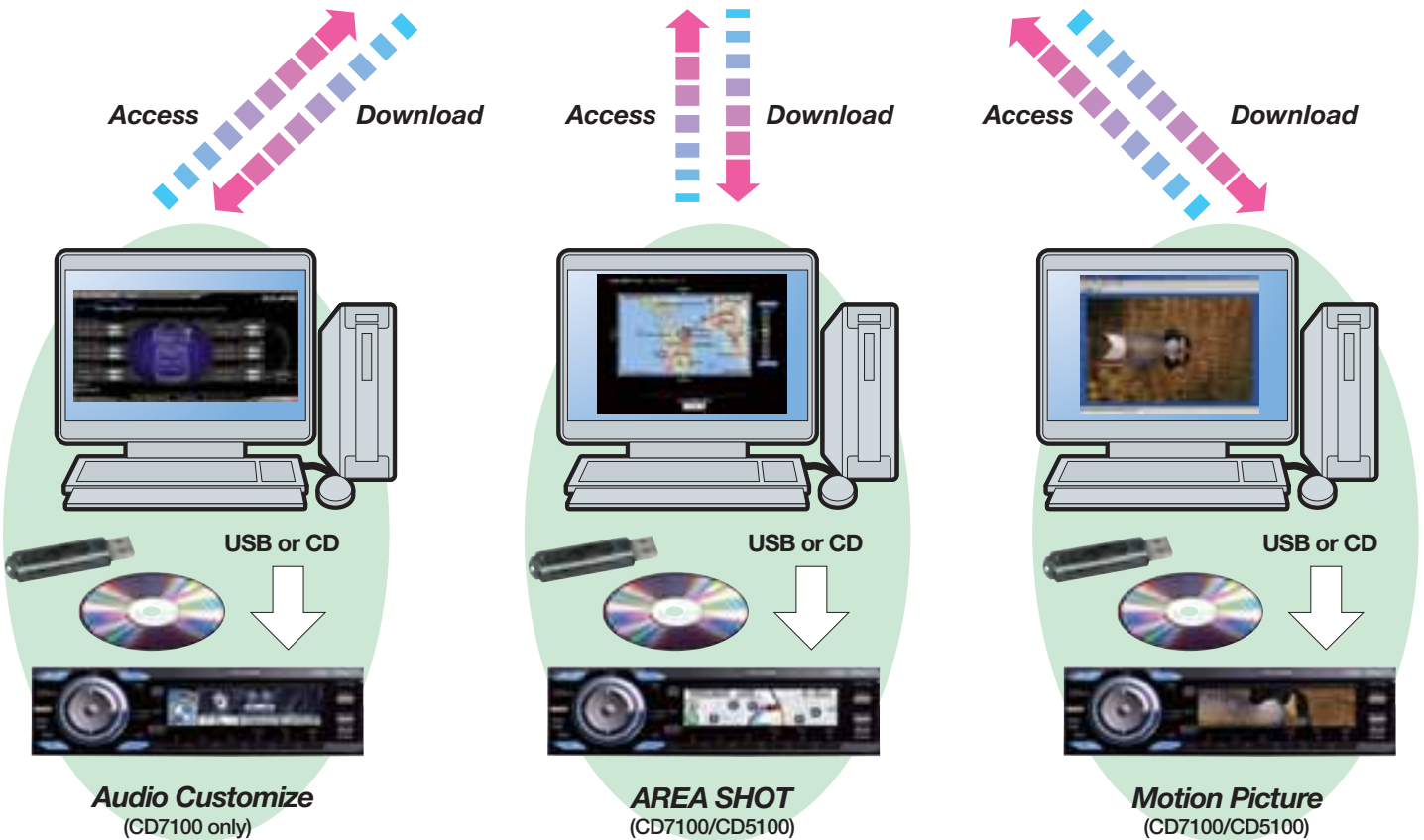
**AREA SHOT**

**FREE MAP DOWNLOADS!\***

Indispensable resource for free maps that can be downloaded and used for simplified navigation and electronic driving guidance.

**Motion Picture**

Ideal for personalizing a system using personal images for system wallpaper. "Cutting board" software can be downloaded that makes it fun and easy to assemble animated image sequences.



**Audio Customize**

(CD7100 only)

E-iSERV allows a degree of user customization previously unavailable except with test equipment and technicians. Audio data and system response from a specific car is sent to a dedicated audio processing server where it is evaluated and adjusted to create a system response tailored for that particular car.



**Time Alignment**

Set delay and level for each speaker to align arrival times for a more natural imaging soundfield.



**Crossover**

Adjusts speaker to speaker transition frequencies for smooth system integration, creating a better overall response without speaker discontinuities.



**Parametric EQ**

Up to 10 frequency bands for each channel can be adjusted to eliminate peaks and dips in system frequency response.



## AREA SHOT (CD7100/CD5100)

A greatly improved Area Shot with new functions and powerful capabilities offers useful guidance for trips and driving tasks. With an awesome assortment of maps available to the user, guidance and assistance for any trip can be enjoyed.

# AREA SHOT does a lot to make driving more enjoyable

For example, taking a road trip from Los Angeles to San Francisco

### How to get to your destination in the easiest way

For a complete route from home to hotel, download AREA SHOT data to a USB device or CD and install the data into the head unit.



#### Route Assist

Route Assist will guide you perfectly all the way to the hotel.



Turnlist shows both street names and distances. 5 POIs can be displayed at the same time.



Display can switch between a map display and turnlist.

### Other Area Shot features

In addition to the new features, Area Shot also includes other effective functions that assist driving.

- Automated map display switching
- Upcoming intersection heads up signal
- Realtime progress reports
- Intersection-to-intersection displays
- Quick POI information
- Aligning display with the car's direction of travel
- Full route simulation

### Useful moving location display

Adding the GPS105 will display the car's location as it moves!

Optional for: AVX5000, CD7100 and CD5100



GPS 105

### How to take the ideal San Francisco tour

Before setting out, download San Francisco Town Maps data, store and install the data.



Confirm desired map scale then download to USB device or CD-R.

USB or CD

San Francisco Town Map

### AREA SHOT's detailed electronic street maps make it easy to go anywhere.



Featuring all the important information that makes it easy to enjoy driving, even in unfamiliar environments.

### Town Map

Town Map allows unlimited downloading map data from a vast archive of street-level scale maps. If the GPS option is used, map displays will also indicate the traveling car's current position.

## Motion Picture (CD7100/CD5100)

Customizing the display panel is easy using a downloadable proprietary application to edit and sequence up to a maximum of 70 images to create a 7-sec. animated clip.



"Cutting board" software can be downloaded that makes it fun and easy to assemble animated image sequences.



**Solid performers that concentrate on the basics to an exceptional degree**

5V<sub>PRE-OUT</sub>



ESN MP3 COMPACT disc DIGITAL AUDIO READY HD Radio SIRIUS READY

**CD2000** MOSFET 50W × 4 (max.)

CD Multi-Source Receiver

- High Contrast LCD
- MOSFET 50W × 4
- 3-band GEQ
- FM/AM
- SIRIUS Satellite Radio-ready
- HD Radio-ready
- ESN security
- Remote Control-ready
- iPod® control-ready\*

\*Some operations may be limited. Please refer to all control details on p25.



WMA MP3 COMPACT disc DIGITAL AUDIO READY

**CD1000** 50W × 4 (max.)

CD Multi-Source Receiver

- 2 color LCD
- 6-mode EQ
- FM/AM
- Detachable front panel
- Remote Control-ready

**Accessories**

**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.



**HDR105**  
HD Radio Tuner Unit

Optional for:  
AVN7000, AVN5495, AVN6610, AVN5510  
AVX5000, CD7100, CD5100, CD3100, CD2000

**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.



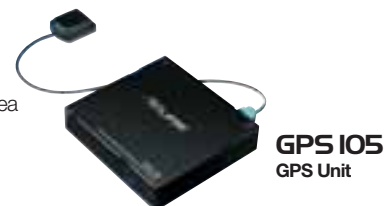
**SIR-ECL1**  
ECLIPSE COMPATIBLE SIRIUS  
SATELLITE RADIO TUNER

Optional for:  
AVN7000, AVN5495, AVN6610,  
AVN5510, AVX5000,  
CD7100, CD5100, CD3100, CD2000

**GPS Unit-ready**

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

Optional for:  
AVX5000, CD7100, CD5100



**GPS105**  
GPS Unit

**CD Changer-ready**



**CH3083**  
8-Disc CD Changer  
with Magazine Unit

**Remote Control-ready**



**RMC105**  
Wireless Remote



**MEI-100**  
Pro Tuning Microphone  
Measures system response to help optimize system frequency response.  
for CD7100 only



**AUX105**  
AUX CORD

(Works with CD7100, CD5100, CD3100)

## Feature List

	CD7100	CD5100	CD3100	CD2000	CD1000
<b>CONTROL</b>					
Remote Control	●	●	●	optional	optional
CD Changer Control	●	●	●	●	—
CD, CD-R/RW	●	●	●	●	●
USB	●	●	—	—	—
WMA	●	●	●	—	●
MP3	●	●	●	●	●
SAT Radio-ready	●	●	●	● (SIRIUS only)	—
HD Radio-ready	●	●	●	●	—
Ready for iPod	●	●	●	▲	—
<b>TUNER</b>					
AM/FM	6/18	6/18	6/18	6/18	6/18
Station Name Input	●	●	—	—	—
<b>AUDIO</b>					
Output Voltage and Impedance	8V/55Ω	5V/55Ω	5V/55Ω	5V/55Ω	2.5V/1kΩ
MOSFET Amplification	●	●	●	●	—
Advanced 24-bit ΔΣ DAC	●	—	—	—	—
Source Volume Control (SVC)	●	●	●	—	—
Circle Surround II	●	—	—	—	—
Parametric EQ	Front 3 way	4 sp+SW	3 band PEQ + 5 mode Preset EQ	3 band PEQ + 5 mode Preset EQ	—
	11 band	7 band			
Graphic EQ	—	—	—	● (3 band)	● (2 band)
Time Alignment	●	—	—	—	—
Crossover	●	●	●	—	—
Bass/Mid/Treble Control	●	●	●	●	▲ (Bass/Treble)
Loudness	●	●	●	●	●
Multi-Harmonizer	●	—	—	—	—
Simplified Position Selector	—	●	—	—	—
Non Fader Level/Phase control	●	●	●	●	—
Non Fader Mono/Stereo changeble	●	—	—	—	—
Dual Pre Outputs	●	●	●	●	●
Non Fader Pre Outputs	●	●	●	●	—
AUX Input	● (RCA + 1 optional)	● (RCA + 1 optional)	▲ (optional)	—	—
<b>GENERAL</b>					
Display	Multi color OEL	Mono OEL	3 color LCD	LCD	2 color LCD
Illumination	6 pattern	Blue/Red	Green/Red	Amber	Green
Dimmer Control	●	●	●	—	●
ESN Security	●	—	—	●	—
Detachable Front Panel	●	●	●	—	●
Full Face Tilt	●	●	●	—	—
GPS-linked volume control (w/GPS)	●	●	—	—	—
GPS Information Display (w/GPS)	●	●	—	—	—
<b>E-iSERV</b>					
E-iSERV Connection	●	●	●	—	—
Data Carrying	USB & CD-R	USB & CD-R	CD-R	—	—
Audio Customize	●	—	—	—	—
Motion Picture	●	●	—	—	—
Area Shot	GPS Connection	●	●	—	—
	Route Assist	●	●	● (Arrow/Text)	—
	Tone Guide (w/GPS)	●	● (beep)	—	—
	POI	●	●	—	—
	Town Map	●	●	—	—
	Auto Map Switch (w/GPS)	●	●	—	—
	Route Simulation	●	●	—	—
	Distance Display	●	●	●	—

## Specifications

14.4V Power Supply	CD7100	CD5100	CD3100	CD2000	CD1000
Max. Power Output	50W × 4 (MOSFET)				
Lineout Output Level/Impedance	8V(0dB)/55Ω	5V(0dB)/55Ω			2.5V(0dB)/1kΩ
Tone Control	Bass/Mid/Treble	±12dB/±12dB/±12dB			±12dB at 80Hz/±12dB at 630Hz/±12dB at 10kHz
	Loudness	+10dB at 100Hz/+6dB at 10kHz			+10dB at 100Hz/+6.5dB at 10kHz
FM	Frequency Range	USA: 87.75 — 107.9 MHz (200kHz step) Latin America: 87.75 — 107.9 MHz (100kHz step)			+10dB at 100Hz/—/+10dB at 100Hz
	Usable Sensitivity	15dBf			13dBf
AM	Frequency Response	30 — 15,000Hz			40 — 15,000Hz
	Stereo Separation	38dB (1kHz)			35dB (1kHz)
CD	Frequency Range	USA/Latin America: 530 — 1,710kHz (10kHz step)			
	Usable Sensitivity	22μV			20μV
	Frequency Response	20 — 20,000Hz, ±3dB			
	S/N Ratio (A-weighted)	100dB	95dB		
USB	Total Harmonic Distortion	0.008%			
	Channel Separation	85dB	80dB		
	Frequency Response	20 — 20,000Hz, ±3dB			
Dimensions (W × H × D)	S/N Ratio (A-weighted)	100dB	95dB	—	—
	Total Harmonic Distortion	0.008%			—
					7" × 2" × 5-7/8" (178 × 50 × 155mm)
					7" × 2" × 5-7/8" (178 × 50 × 150mm)

## 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

## Equalizers



**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 ±6/12dB
- Switchable subwoofer crossover
- Summed channel line output
- LED overload indicators



**EQ 1000**



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

This parametric equalizer/crossover allows any 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

## GPS Unit



**GPS I05**

**GPS Unit**

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

Optional for: AVX5000, CD7100, CD5100  
Dimensions (W x H x D)  
6-15/16" x 1-7/16" x 6-5/16"  
175 x 36.5 x 160mm

## Digital radio options



**SIRIUS Traffic** **SIRIUS SATELLITE RADIO**

**SIR-ECL2nt** **NEW**  
**ECLIPSE COMPATIBLE SIRIUS SATELLITE RADIO TUNER**

Dimensions (W x H x D)  
 5-7/16" x 1-7/16" x 4-3/16"  
 126 x 35 x 105mm

For AVN6610 only



Instant access to SIRIUS satellite-based RTTI information for useful real-time traffic conditions. Whether traffic jams, congested areas or open streets, all information is clearly displayed onscreen, enhancing AVN navigation and offering additional driving advice.



**SIRIUS SATELLITE RADIO**

**SIR-ECL1**  
**ECLIPSE COMPATIBLE SIRIUS SATELLITE RADIO TUNER**

Optional for:  
 AVN7000, AVN5495, AVN6610, AVN5510, AVX5000, CD7100, CD5100, CD3100, CD2000

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



**HD Radio**

**HDR105**  
**HD Radio Tuner Unit**

Optional for:  
 AVN7000, AVN5495, AVN6610, AVN5510, AVX5000, CD7100, CD5100, CD3100, CD2000

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

## Interface Adapter for iPod®

The new iPC-106 iPod Interface Adapter makes it possible to continue to enjoy the most popular personal music device together with ECLIPSE products.



**iPC-106**



**Interface Adapter for iPod®**

Dimensions (W x H x D) : 4-11/16" x 1-5/16" x 3-9/16"  
 120 x 32 x 90mm



Photo: AVN6610



Photo: CD7100

iPod® full control:  
 AVN6610, AVN5510, CD7100, CD5100 and CD3100

### iPC-106 Functions

ECLIPSE models	AVN Series					
	AVN6610, AVN5510	AVN7000			AVN5495	AVX Series AVX5000
Mode	iPod mode (full control)	SIRIUS mode	CDCH mode	CDCH mode	SIRIUS mode	CDCH mode
Track next/previous	●	●	●	●	●	●
Fast next/previous	●	—	—	—	—	—
Text display	●	●	—	—	●	—
Search mode	●*1	●*2	●*2	●*2	●*2	●*2
Browsing list	●	—	—	—	—	—
Repeat	●	●	●	●	●	●
All repeat	●	●	●	●	●	●
Random	●	●	●	●	●	●
Album random	●	—	—	—	—	—
Power supply/charge	●	●	●	●	●	●

ECLIPSE models	CD Series		
	CD7100, CD5100, CD3100	CD2000	
Mode	iPod mode (full control)	SIRIUS mode	CDCH mode
Track next/previous	●	●	●
Fast next/previous	●	—	—
Text display	●	●	—
Search mode	●*1	●*2	●*2
Browsing list	●	—	—
Repeat	●	●	●
All repeat	●	●	●
Random	●	●	●
Album random	●	—	—
Power supply/charge	●	●	●

\*1: Playlist/Album/Artist/Genre/Song \*2: Playlist/Album/Artist/Song

## Power Amplifier Series

### XA Amplifier Series

ECLIPSE's XA Amplifier Series utilizes the latest advancements in digital amplification topologies to create superior sounding amplifiers dedicated for the mobile environment. The XA 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 minimizes heat build-up.



**ice power** **XA5000** **900W**

**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.



**ice power** **XA4000** **840W**

**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.



**ice power** **XA2000** **360W**

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

This versatile and powerful amplifier is ideal for multi-amp system building and can be bridged to function as a

300W single channel amplifier for ultimate systems.



**XA1000** **640W**

**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.

## EA 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.

- 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.



### EA4100

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 175W into 2 channels.



### 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.

## Specifications



\* Meets CEA2006 guidelines

14.4V Power Supply	XA5000	XA4000	XA2000	XA1000	EA4100	EA2000
Channel	5/4/3	4/3/2	2/1	1	4/3/2	2/1
Power Output (max.), 10% THD 2Ω	900W	840W	360W	640W	400W (4Ω)	180W (4Ω)
Power Output* 1% THD	2Ω	75W × 4 + 450W	175W × 4	150W × 2	480W	—
	4Ω	50W × 4	125W × 4	100W × 2	—	75W × 4
	4Ω Sub Chnl.	300W × 1	—	—	320W × 1	—
THD @ Rated Power	4Ω Bridged	150W × 2	350W × 2	300W × 1	—	175W × 2
	@2Ω	—	—	—	—	—
	@4Ω	—	0.05%	—	—	—
	@4Ω Sub Chnl.	0.25%	—	—	0.25%	0.05%
S/N Ratio*, 1W out				>90dB		
Frequency Response, 1W out	20 — 20,000Hz (stereo)			20 — 200Hz	20 — 20,000Hz	
Amp Crossovers	Hi-Pass 18dB/oct.	30 — 500Hz		—	30 — 500Hz	
	Lo-Pass 18dB/oct.	50 — 500Hz		20 — 200Hz	50 — 500Hz	
	Subsonic 18dB/oct.	18Hz				
	Pre-Amp Output Lo-Pass 18dB/oct.	—				
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" × 9-1/4" 340 × 59 × 235mm	9-13/16" × 2-5/16" × 10-3/16" 250 × 59 × 259mm



SW8000 Series



**SW8200** 12" Subwoofer (4Ω)  
**SW8000** 10" Subwoofer (4Ω)

**SW8000 Series**

The subwoofer to satisfy discerning audiophiles, the SW8000 Series subwoofers deliver clean, deep bass with outstanding pitch definition to instantly upgrade a system's dynamic range and low frequency extension. Featuring a truly linear subwoofer design that delivers ideal transient response with accurate excursion, the SW8000 series are a no-compromise solution for superior bass. With an attractive design and a newly designed set of push terminals, the SW8000 series have to be experienced.



- RMS power handling: 670W/625W
- Max. power handling: 2000W/1900W
- Linear transducer technology
- Solid aluminum cone heat sink
- Single 4Ω compound linear voice coil
- 200oz dual stacked magnet
- Aluminum cast basket
- Aluminum cast magnet heat sink
- SBR synthetic rubber surround
- Polyester-cotton spider
- QCA (Quick Change Assembly) technology
- 10awg push and screw terminal

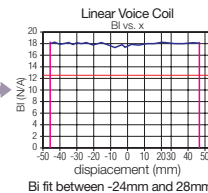
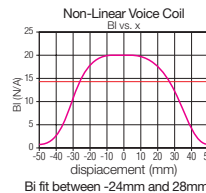
**ECLIPSE linear transducer technology\***



\* Patent pending



By shaping the turn distribution of a wire coil a more optimal force linearity can be achieved. In practical terms, ECLIPSE's shaped coil winding allows greater linearity in the motor's peak-to-peak travel, reducing distortion for better-sounding low frequencies.



Linear Transducer speaker's flat BL (force) vs. displacement (travel) graph compared to a conventional speaker's bell-shaped curve.





*SW7000 Series*



**SW7000 Series**

The SW7000 Series incorporates a heatsink voice coil/cone thermal sink that allows producing 500W 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.



- RMS power handling: 500W/450W
- Max. power handling: 1500W/1300W
- Solid aluminum cone heat sink
- Dual 4Ω aluminum voice coil
- Aluminum cast basket
- Rubber magnet boot
- Injection santoprene surround
- Dual conax mirrored spider
- Thruster air vent cooling system
- Vortex design basket heat sink

**SW7200** 12" Subwoofer (4Ω + 4Ω)  
**SW7000** 10" Subwoofer (4Ω + 4Ω)

	SW8200	SW8000	SW7200	SW7000
Size	12"	10"	12"	10"
Fs	16Hz	18Hz	28Hz	35Hz
Qts	0.42	0.40	0.52	0.58
DCR	3Ω	3Ω	4Ω + 4Ω	4Ω + 4Ω
Vas	8.27 Cuft	3.75 Cuft	2.24 Cuft	0.85 Cuft
Xmax (one way)	1.50"	1.50"	0.70"	0.70"
Continuous Power Handling	670W	625W	500W	450W
Maximum Power Handling	2000W	1900W	1500W	1300W

Final appearance may be changed.

# Subwoofers

## SW6000 Series



### SW6000 Series

A newly redesigned SW6000 Series featuring increased input power capability and heavy duty requirements including a doubling of cone excursion. The cone material is now a Kevlar composite, new centralized terminals are included and the series has a completely new look.



### SW6200 12" Subwoofer (4Ω + 4Ω) SW6000 10" Subwoofer (4Ω + 4Ω)

- RMS power handling: 350W/300W
- Max. power handling: 1000W/900W
- Kevlar composite cone
- Dual 4Ω aluminum voice coil
- ABS + 15% fiber-filled magnet coverd
- Injection santoprene surround
- Rubber gasket
- Flat pc spider
- Air vent cooling system
- Quad 10awg chrome terminal

## SW4000 Series



### SW4000 Series

The new SW4000 Series easily competes with subwoofers of a higher class. A new Kevlar composite cone extends lows, maintains rapid transient response and well-defined pitch. Distinguished by an attractive and practical grill design, these speakers significantly for extend system response.



### SW4200 12" Subwoofer (4Ω) SW4000 10" Subwoofer (4Ω)

- RMS power handling: 250W/200W
- Max. power handling: 750W/600W
- Kevlar composite cone
- Integrated grill assembly
- Foam surround
- Polycarbonate spider
- 43oz magnet (SW4200), 30oz magnet (SW4000)
- 4-layer aluminum single voice coil
- Air vent cooling system

	SW6200	SW6000	SW4200	SW4000
Size	12"	10"	12"	10"
Fs	31Hz	38Hz	32Hz	38Hz
Qts	0.77	0.70	0.56	0.6
DCR	4Ω + 4Ω	4Ω + 4Ω	4Ω	4Ω
Vas	2.0 Cuft	0.85 Cuft	2.75 Cuft	1.25 Cuft
Xmax (one way)	0.30"	0.30"	0.30"	0.27"
Continuous Power Handling	350W	300W	250W	200W
Maximum Power Handling	1000W	900W	750W	600W



The SW4200BXD instantly delivers tight, extended bass at an extremely competitive price point with a pair of high efficiency 12" woofers with a combined impedance of 4 ohms. Simply install in a desired position.

### SW4200BXD NEW 12" x 2 Subwoofer System

- RMS power handling: 250W
- Max. power handling: 750W
- Single 4Ω terminal

	SW4200BXD
Subwoofer Driver	SW4200 x 2
Frequency Response	28 — 250Hz
Sensitivity 1W/m SPL	88dB
Normal Impedance	4Ω
Dimensions (W x H x D)	27.6" x 13.8" x 11" (701 x 350 x 280mm)
Weight (Gross)	43lbs (19.5kg)
Weight (Net)	37.5lbs (17kg)
Finish	Grey
Continuous Power Handling	250W
Maximum Power Handling	750W

# Component Series Speakers

## 3-Way SC-Series

When size limitations are not 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

- RMS power handling: 100W
- Max. 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

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

## Shared features

### Woofer driver

- Solid aluminum cone (SC8365: 6-1/2") (SC8355: 5-1/4")
- Aluminum diecast basket
- 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 etallized polypropylene capacitors
- Tweeter protection circuit
- Variable tweeter sensitivity (-3dB/0dB/+3dB)

	SC8365	SC8355
Woofer Size	6-1/2"	5-1/4"
Midrange Size	1-1/2"	1-1/2"
Tweeter Size	3/4"	3/4"
RMS Power Handling	100W	85W
Max. Power Handling	300W	250W
Frequency Response	30 — 25,000Hz	35 — 25,000Hz
Sensitivity	88dB	87dB
Cone Material	Solid Spun Aluminum	Solid Spun Aluminum
Surround Material	Santoprene	Santoprene
Voice Coil Former	Aluminum	Aluminum
Midrange Dome	Aluminum	Aluminum
Tweeter Dome	Aluminum	Aluminum
Tweeter Magnet Material	Neodymium	Neodymium
Woofer Magnet Material	Ferrite	Ferrite
Mounting Depth	2-7/8"	2-5/8"

## Component Series Speakers

2-Way SC-Series

### Making high-performance sound affordable



#### SC6900

6-9" 2-Way Driver with 1" Aluminum Tweeter

NEW

- RMS power handling: 80W
- Max. power handling: 240W
- Sensitivity (1Watt/meter) SPL: 86dB
- Mounting Depth: 2-3/8"

The SC6900 6x9" component system is designed to upgrade factory speakers with a performance conventional 6x9" speaker systems cannot achieve and still maintain an acceptable price point. The SC6900 combines a 6x9" aluminum diecast woofer with a 1" silk dome tweeter. A dual second order network creates a smooth crossover for more accurate sound reproduction resulting in a speaker system to satisfy the most discriminating listener. The 6x9" woofer requires only 2" of mounting depth, making it easy to install in any 6x9" application.



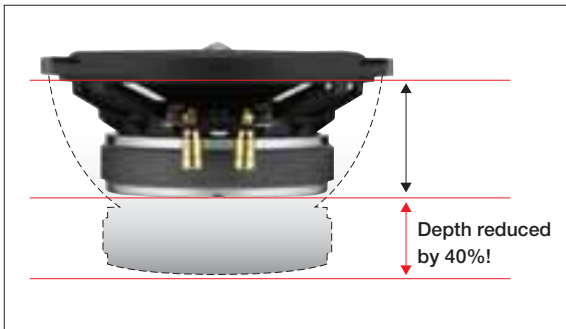
#### SC6500

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

NEW

- RMS power handling: 75W
- Max. power handling: 225W
- Sensitivity (1Watt/meter) SPL: 84dB
- Mounting Depth: 2-1/4"

The SC6500 component system represents audiophile quality at a satisfying price point. This system comprises a 6-1/2" low distortion woofer and a 1" silk dome tweeter for smooth highs. The crossover uses selected components for a dual second order network that provides an accurate and seamless transition from low frequency driver to the tweeter, delivering a rich, musical sound with all the earmarks of highend speakers. The SC6500 woofer utilizes new shallow mount technology that allows installation in spaces only 2" deep.



The required 2" mounting depth for this slim profile speaker is approximately 40% less than conventional speakers, greatly facilitating installation. Even with a slim side profile, sound quality is extraordinary.

	SC6900	SC6500
Woofer Size	6x9"	6-1/2"
Tweeter Size	1"	1"
RMS Power Handling	80W	75W
Max. Power Handling	240W	225W
Frequency Response	65 — 25,000Hz	84 — 25,000Hz
Sensitivity	86dB	84dB
Cone Material	Glass fiber and Kevlar	Glass fiber and PMI
Surround Material	Rubber	Rubber
Voice Coil Former	Aluminum	Aluminum
Tweeter Dome	soft silk	soft silk
Tweeter Magnet Material	Neodymium	Neodymium
Woofer Magnet Material	Ferrite	Ferrite
Mounting Depth	2-3/8"	2-1/4"

# Point Source Series Speakers

## 2-Way SP-Series

The SP Series II Point Source is an innovative 2-way component system that offers mounting options for high frequency driver positioning flexibility in order to better meet installation requirements and achieve optimal sound. Woofers feature a new Kevlar composite for increased power handling and the external crossovers employ premium components.

### Sound improvements

The improved power handling capability of ECLIPSE Point Source Series Speakers and the detachable tweeter option allows them to be more versatile to better suit a car's interior in achieving the maximum performance. ECLIPSE subwoofers can also be used for greater low frequency impact, blending easily with the sonic signature of these speakers.

### An ideal solution

Specifically designed to function as self-contained speakers that represent the easiest way to drastically upgrade an in-car system, ECLIPSE Point Source Speakers are available in configurations to suit virtually any car. With a distinctive high-performance appearance, the many advantages these speakers have raise them above conventional replacement speakers.

- 1" titanium hard dome tweeter
- Low mass, low distortion Kevlar-PMI cone
- Neodymium tweeter magnet
- Detachable tweeter
- Grilles and Adaptors included
- Woofer, bullet diffuser for tweeter height extension
- Tweeter relocation kit (flush/surface mount kit)



**SP6900**  
6 x 9" 2-Way Point Source

- RMS power handling: 90W
- Max. power handling: 270W



**SP6500**  
6-1/2" 2-Way Point Source

- RMS power handling: 60W
- Max. power handling: 180W



**SP5700**  
5 x 7" / 6 x 8" 2-Way Point Source

- RMS power handling: 55W
- Max. power handling: 165W



**SP5000**  
5-1/4" 2-Way Point Source

- RMS power handling: 50W
- Max. power handling: 150W

## Configuration Style



### Point Source

Direct speaker replacement for factory-installed speakers.



### Point Source w/ Extended Tweeter

For installations where the speaker is mounted some distance behind the grille, the supplied tweeter stand-off spacer can be added to extend the tweeter for better high frequency dispersion.



### Point Source Detached Tweeter

The speaker can be detached into woofer and tweeter components so that the woofers can be installed in doors while tweeters can be installed closer to windows and other positions such as the dashboard.



Tweeters can be installed flush or mounted on dashboards and other locations as separate housings are provided.

	SP6900	SP6500	SP5700	SP5000
Woofer Size	6 x 9"	6-1/2"	5 x 7" / 6 x 8"	5-1/4"
Tweeter Size	1"	1"	1"	1"
RMS Power Handling	90W	60W	55W	50W
Max. Power Handling	270W	180W	165W	150W
Sound Pressure Level	88dB	87dB	88dB	84.5dB
Frequency Response	45 — 40,000Hz	85 — 40,000Hz	90 — 40,000Hz	105 — 40,000Hz
Fs	45Hz	85Hz	90Hz	105Hz
Magnet Size	24oz	12oz	12oz	10oz
Mounting Depth	3.5"	2-1/4"	2-3/8"	2-1/4"
Voice Coil DCR (Ω)	3.6	3.6	3.6	3.6

## 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, SE8385, 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 x 9" 4-Way

- RMS power handling: 75W
- Max. power handling: 220W



**SE8385** 6 x 8" 3-Way NEW

- RMS power handling: 40W
- Max. power handling: 120W



**SE8365** 6-1/2" 3-Way

- RMS power handling: 40W
- Max. power handling: 120W



**SE8355** 5-1/2" 3-Way

- RMS power handling: 30W
- Max. power handling: 90W

## Marine Loudspeaker

Specifically designed to withstand the rigors of marine and outdoors environments the SM6500 is ideal for use on boats.



**SM6500** 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"

	SE8495	SE8385	SE8375	SE8465A
Size	6 x 9" 4-Way	6 x 8" 3-Way	5 x 7" 3-Way	4 x 6" 2-Way
Frequency Response	80 — 40,000Hz	80 — 40,000Hz	85 — 40,000Hz	105 — 40,000Hz
Sensitivity	93dB	91dB	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"	2-1/4"	2-1/8"	1-3/4"



**SE8375** 5 x 7" 3-Way

- RMS power handling: 40W
- Max. power handling: 120W



**SE8465A** 4 x 6" 2-Way

- RMS power handling: 30W
- Max. power handling: 90W



**SE8465E** 4 x 6" 2-Way

- RMS power handling: 30W
- Max. power handling: 90W



**SE8405** 4 x 10" 3-Way

- RMS power handling: 35W
- Max. power handling: 100W



**SE8245** 4" 2-Way

- RMS power handling: 25W
- Max. power handling: 75W



**SE8235** 3-1/2" 2-Way

- RMS power handling: 20W
- Max. power handling: 60W

SE8465E	SE8365	SE8355	SE8405	SE8245	SE8235
4 x 6" 2-Way	6-1/2" 3-Way	5-1/2" 3-Way	4 x 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.
- Do not adjust controls while driving. To adjust the controls, stop the car in a safe location.
- 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.

### Installation

- ECLIPSE is not responsible for any accident or damage due to improper installation, connections or products modified in any way.
- 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.
- 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.
- 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.
- When the BEC106 Rear View Camera is connected using the CAB106, the CAMERA SCREEN button cannot be used for displaying Rear View Camera images. Select AUTO CAMERA SETTING before using the Rear View Camera.

### 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.

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### Others

- 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.
- 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 disc 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.
- 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.
- 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.
- Song storage can be less than the representative number of song files depending on each song's bit rate and sampling frequency.
- Place USB devices and/or extension cords in a safe place where they do not interfere with driving.
- The USB connector on the front panel is only for USB Mass Storage Class memory devices.
- Compatible with USB1.1 and USB2.0 (max. transfer rate 12Mbps, equivalent of USB1.1)

- ECLIPSE is not responsible for any data loss on a USB device due to unit failure or malfunction.
- Do not disconnect a USB device while in use. Replacing it or terminating power during usage may damage stored data.
- Some USB devices may not function properly, depending on a USB device's condition and specifications.
- Products listed in this catalog are not compatible with multi-partition USB devices or USB hubs.
- To prevent permanent loss of important data, always backup data.
- Devices that require large current (bus power) may not function properly.
- Music files with copyright protection may not be reproduced.

### 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.
- AVN5495 map data compiled as of June 2004.
- AVN6610 map data compiled as of December 2005.
- AVN5510 map data compiled as of December 2005.
- 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.
- 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.

### AVX/CD Receivers-specific

- Use map data (Area Shot) 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.

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