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

Originality
Offering an unparalleled degree of customisation over audio parameters to optimise the overall system response as well as visual-oriented features, the AVN8826 empowers the user to create the exact sound desired.

Quality
For uncompromised navigation and entertainment performance, the AVN8826 incorporates the Ultima Engine for sophisticated navigation with high-speed graphics processing while the optional DCU105 5.1 ch. Decoder/AV Matrix Unit allows any program source to be enjoyed in surround sound.

In a class all its own.
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.

AVN8826
HDD Navigation System with 7” Wide TFT Display and DVD/MS Multi-Source Receiver
**AV Navigation**

**Navigation**

- Ultima Engine
- 20GB 1.8” HDD
- 7” (175mm) wide TFT display with touch control
- over 32,000 map colours
- 334 3D landmarks
- approx. 11,000 landmarks

**Advanced navigation with outstanding ease of use.**

The AVN8826 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 AN8826 shows just how much is possible in mobile navigation today.

- Multiple search modes
- Split screen displays
- Map scale from 50m to 500km
- Voice announcements and guidance (10 languages)
- Time zones (Greenwich, Central and East)
- Border guidance

**Audio/Visual**

- FM/MW/LW tuner
- Advanced 24-bit ΔΣ DAC
- RDS-TMC (Dynamic Route Guidance)
- High-performance DSP:
  - Parametric equaliser
  - Time alignment
  - Listening Position Selector
- 5V preamp output (with DCU105)
- CD Changer-ready (2 units)

**Comprehensive features that enhance any audio/visual entertainment.**

Offering 5.1 ch. surround sound (with DCU105) for surround-encoded program material as well as upmixing two channel material, the AVN8826 offers the most from any program source. Utilising audiophile grade circuits and components, audio and visual performances are simply stunning.

- CD/CD-R/RW, MP3, WMA
- DVD-Video, DVD-R/RW and DVD+R/RW
- Memory Stick Duo
- MOSFET 50W × 4
- 5.1 ch. surround sound (with DCU105)
- 2-colour illumination
- DVD dual play

Fitting elegantly into the centre console to enhance a car’s interior.
The challenge was to fit an immense amount of technology into a space-limited one-DIN unit housing. By extensively employing the latest advances in integrated circuit technologies, ECLIPSE was able to achieve an impressive engineering feat of fitting all the technology in. ECLIPSE is the only mobile electronics manufacturer to offer so much in a single, compact enclosure.

The technology inside

The technology inside

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.

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 black matte finish of the unit.

Understated black matte finish

Adding to the AVN8826’s stylistic appeal is the black matte finish that complements car interiors and adds a sophisticated, appealing finish.

Dual colour illumination

To suit user preferences and car interiors, the switches offer a choice of colour 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 colours

Display view

On-screen information now “floats” above a map display so it’s easier to see and less distracting.

Space-saving circuit construction techniques

AVN8826 circuit board construction utilises advanced modules comprised of DAC, memory and flash memory integrated circuits that make it possible to downsize the circuit boards, which in turn help achieve the ultra space-efficient one-DIN unit configuration of the AVN8826.

DAC — Misfits — OUTPUT

The culminating effect of all these efforts allows the AVN8826 to be free from noise and provide a performance that impresses.
**Searching**

Offering the most convenient ways to find your destination.

**Motorway search**
Simplifies highway travel. Just input the name of a motorway and the entrance/exit you want.

**Coordinates search**
Searches by latitude and longitude.

**Address search**
An address is all that is needed.

**POI search**
Convenient presets for general inquiries save time.

**POI near**
Making it simple with the easiest locations to get to.

**Map search**
No more wasting time looking for a map.

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

**Memory points**
Presets for instantly accessing a location.

**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’s easy to return from anywhere.

**Previous points**
Where the car has been.

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

**Coordinates search**
Inputting a street name and number will initiate a search.

For a particular type of location such as a mall, restaurant or other, AVN8826 brings up listings. Touch one and see more details.

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

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

Offers a route to the input city’s central area. Up to 5 favourite cities can be conveniently grouped. A 32km vicinity of the city can also be shown.
Always a useful choice of routes for the user to choose from.

Road preference

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

Enroute stopping points

Choose when and where to take breaks.

On a chosen route, stopping at a supermarket, finding some petrol and parking before the final destination or any other of 5 locations can be programmed into the route.

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 familiarised with it.
Assistance

Comprehensive help features make driving enjoyable.

Voice announcements and guidance

No more missed turns.

For stress-free driving, the AVN8826 advises upcoming turns and will continue to warn as the turn approaches. Other guidance for curves and driving lanes will also be announced.

Language Selection

For greater ease of use, the AVN8826 can interact with the user in 10 languages. Select the language as desired.

Intersection zooming

Display zooms up just when needed.

When approaching an intersection where a turn is required, the display automatically splits into two screens so as to also show a more closeup view with details such as landmarks for easier navigation.

Auto rerouting

Instant response ensures no wasted time.

Wrong turns and missed streets are no longer a problem because the AVN8826 instantly reroutes to put the user right back on track.

Map and positional updating

Constant tracking maintains accurate position.

The AVN8826 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.

Radio Data System (RDS)

Adding basic data and text services to FM broadcasts, RDS-enabled tuners provide useful assistance while driving. RDS services are available through most of Europe.

- Programme service (PS)
- Alternative frequency (AF)
- Traffic announcement (TA/TP)
- Regional links (Reg On/Off)
- Enhanced other net’s information (EON)
- Programme type (PTY)

Motorway assistance

Entrance displays

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

Motorway interchanges

Untangling the most complex interchanges is easy with the the 3D views and correct lane views the AVN8826 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.

RDS-TMC

Up-to-the-minute traffic information.

RDS-TMC is an enhanced RDS service that offers valuable driving assistance, delivering up-to-the-minute traffic information that enables dynamic route guidance. Any traffic problems that occur will be seen on the display, visually marked with symbols on the display map. As the traffic data is input directly into the AVN8826’s navigation system, it is easy to select alternative routes that avoid the traffic problem altogether.
Making navigation easier than ever to use.

The navigational database contains a substantial number of POIs that assist finding various locations. Petrol stations and restaurants are only some of the useful categories of POIs. Each category is also assigned a distinctive icon. For more information about a specific icon, simply press it to display pertinent information such as telephone number, address and so forth.

**POI displays**

Some POI icons can be shown simultaneously.

**3D landmark icons**

For more ease when navigating, the AVN8826 provides 334 3D icons that are highly visible on the display, allowing the driver to quickly focus in on prominent points.

**Driving distance and arrival time displays**

Useful information regarding 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 50m to 500km for maximum flexibility.

**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.

**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 travelling across time zones, the AVN8826 automatically makes an adjustment for that time zone.

**Mapping coverage**

The AVN8826 incorporates a comprehensive navigational database for Europe which includes: Andorra, Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Ireland, Italy, Liechtenstein, Luxembourg, Monaco, Netherlands, Norway, Portugal, San Marino, Spain, Sweden, Switzerland, United Kingdom, Vatican City.
Transport yourself into a theatre 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.

DCU105 Audio Video Matrix

Multi-function 24-bit Dolby decoder
The multi-function 24-bit Dolby decoder incorporates Dolby Digital 5.1ch. and dts 5.1ch. 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 customising audio to user preferences.

Digital inputs for coaxial and optical signals allow easy interfacing.

Gold-plated RCA pin connectors

Advanced 24-bit DAC

When the AVN8826 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.

Versatility increases entertainment value.
High-end performance comparable to dedicated components.

**AVN8826 + 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.

**AVN8826 + DCU105 — Optimising 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.

**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.

**AVN8826 + DCU105 — Wide-bandwidth, perfectly balanced sound.**

**Normal Mode**
Perform easy audio customisation using the AVN8826 by itself.

**7-band Parametric EQ**
Simpler parametric equalisation function can adjust the “Q,” i.e. bandwidth, of each of the 7 centre frequencies from wide to narrow in 3 steps.

Adjusting a crossover point’s frequency, rolloff using “slopes” from bandpass to 6/12/18/24dB/octave and level settings.
**Enables optimal listening.**

**Listening Position Selector**
This function compensates for any seating position, optimising 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.

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**Twin Security System**

**ESN**
With the engine switched off, ESN can be activated to deter AVN8826 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 portable, allowing users another level of security and deterrence.

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**Other customisation 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 AVN8826 offers the specialised functions and features that make sure you get the best performance.

**Versatile 7˝ (175mm) wide display**
Responsive to a fingertip touch, the sharp TFT display provides high resolution viewing optimised 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 optimised 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 theatre quality with 5.1 ch surround sound. Even non-multichannel programs and CDs can be upmixed for 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 AVN8826 with sound from all speakers, the AVN8826 can also be playing a DVD-Video for rear seat passengers who can listen to it through headphones connected to the rear displays.

**Options that increase AVN8826 enjoyment.**

**Create a mobile music library.**

**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.

**MP3 and WMA files**
All the convenience of digital music files can be enjoyed with the AVN8826. A Multi-Harmonizer function makes sure these files always sound their best by restoring harmonic data lost during the encoding process.

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

**Rear monitor-ready**
The AVN8826 can handle the demands of providing different program material so that adding rear monitors becomes a worthwhile option for offering more entertainment for all persons in the vehicle.

**Take the hassle out of backing up.**

**Rear view camera-ready**
The BEC105 optional rear view camera can be connected to the AVN8826 to facilitate parking.

**More convenience at hand.**

**RMC105**
Wireless Remote
Remote control-ready
Optional new ergonomic design remote enhances operation.
### Features List

#### Main Functions
- **HDD Navigation**
- **Ultima Engine**
- **Displaying**
- **Screen aspect ratio**: 16:9, low-glare panel
- **Resolution**: 336,960 dots (480 x 270)
- **Weight**: 2.3 kg

#### Entertainment
- **Audio function**
  - **FM**: 10 languages
  - **RDS Tuner**: AF, REG, TP, TA, PS, PTY, EON
  - **CD changer**
  - **CD changer-ready**: 2 (daisy chain)
  - **Rear View Camera-ready**
  - **Rear Monitor Input**: 1
  - **External device input**: 1

#### Specifications

### GENERAL
- **Power output**: 50 W x 4 (MAX)
- **RMS power output (1 kHz, 1%THD 4Ω)**: 13W x 4
- **Dimensions (W x H x D)**: 180 x 50 x 165mm
- **Weight**: 2.3 kg

#### DISPLAY
- **Display**: 7” (175mm) wide (16:9), low-glare panel
- **Resolution**: 336,960 dots (480 x 270)
- **Screen aspect ratio**: 4 types

#### FM TUNER
- **Frequency range**: 87.5 — 108MHz (10kHz step)
- **Usable sensitivity**: 19dB (68.1kHz)

#### MW/LW TUNER
- **Frequency range**: 222 — 1,611kHz (9kHz step)
- **Usable sensitivity**: 28µV (99kHz)

#### Audio function
- **Audio decoding**: Dolby Digital 5.1ch.
- **Digital Input (Coaxial)**
- **Digital Input (Optical)**

#### Memory Stick Duo
- **Memory Stick Duo**: sold separately and compatible with 128MB or under.

#### Precautions
- *1: Ripping not available
- *2: Memory Stick Duo is sold separately and compatible with 128MB or under.
- *3: 100 images can be stored per image should be below 2 MB in MS Duo. Only JPEG files are available
- *4: Please refer to Notes and Precautions.
Honouring the music. Dedicated performers that please music lovers.

ECLIPSE CD Receivers are fully self-contained with 4-channel power amplification and designed to provide the maximum performance from optical disc sources. The series is constantly being refined with new technologies and important new features.
Offering all that is required to communicate music in the best way. Overengineered construction, premium components and advanced digital and analogue circuits work in harmony to produce superb sound.

Both the CD8445E and CD5425E are exceptional head units that deliver the best possible reproduction from today’s popular music program formats — CD, CD-R/RW, and MP3, with the CD8445E also compatible with WMA files. Either model will satisfy discerning music lovers.

### CD8445E
Excellent Sound Quality CD/Memory Stick Receiver with MP3/WMA

- 2-mode Sound Control DSP
- Parametric EQ:
  - 10-band (pro mode on)
  - 7-band (pro mode off)
- Multi-Harmonizer
- Time Alignment
- Crossover
- Listening Position Selector
- Source Volume Control
- Advanced 24-bit $\Delta\Sigma$ DAC
- High 8V preamp output with low 55Ω impedance
- 8-step full dot VF display
- MS/CD ESN security
- 3 prs. pre outputs
- Aux input
- Remote control

### CD5425E
Superb Sound Quality CD Receiver with MP3

- 1-bit DAC
- 3-band Graphic EQ
- Crossover
- Source Volume Control
- 5V preamp output with low 55Ω impedance
- Bright and clear 3-color LCD display
- ESN security
- 3 prs. pre outputs
- Aux input-ready
- Remote control-ready

### Audio Features

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

**Circle Surround II**

Circle Surround II adds three important functions that will significantly increase in-car music listening enjoyment. Circle Surround will upmix any audio program material such as CDs, MP3s, WMA files and FM/MW/LW broadcasts for surround sound with just four speakers. Focus works to raise the apparent soundfield so that sound is perceived as coming from the front, and at ear level, instead of from the sides and lower as many speakers are positioned in cars. TruBass makes use of psychoacoustic principles and human hearing characteristics so that extended low frequencies are perceived, even from small speakers.

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

**Circle Surround**
Multichannel surround sound is generated from any audio source.

**TruBass**
Generates a virtual subwoofer for satisfying low frequency reinforcement.
Audio customise

The CD8445E offers the most comprehensive customisation functions for a user to optimise an audio system for the specific car it is installed in. In addition, customisation can be performed in two modes: **Professional Mode** and **Easy Mode**. **Professional Mode** offers a degree of user customisation that would normally require test equipment and qualified personnel to perform, while **Easy Mode** intelligently groups related parameters to simplify adjustment.

### Pro Mode on

**For optimising a 3-way multi speaker system** that comprises 6 independent speakers.

- **Time Alignment** creates better imaging and a more natural system sound by making sure the sounds from all the speakers arrive at the listener’s ears simultaneously. The delay time and level parameters for each speaker can be easily set individually for the most accurate results.

- **Crossover** adjustment controls the frequency where a speaker’s response crosses over to the next speaker’s response for a smooth, full bandwidth sound without any speaker discontinuities, making for a more pleasing overall system response. Speaker response cutoff frequencies and rolloff slopes can be optimally set.

- **Parametric EQ** controls frequency peaks and dips that compromise absolute sound quality in most cars. PEQ provides the precise frequency control to defeat frequency anomalies for a satisfying, well-balanced sound. Each channel has 5 frequency bands for precision adjustment.

### Pro Mode off

**For optimising a 4-speaker system plus subwoofer system.**

Whether optimising the system for Time Alignment, Crossover or Parametric EQ in Easy mode, all the user has to do is to go through a menu, choosing car type and speaker locations. Parameter options are offered for making easy choices. The final result is an outstanding system response.
Analogue FM/MW/LW signal is sent to a A/D converter before entering the DSP.

CD
CD-R/RW
MP3/ WMA
ATRAC3
DSP AMP
D/A converter
Digital Digital Analogue Analogue Conversion
High-voltage preamp output
ECLIPSE audio philosophy emphasises high performance so both the CD8445E and CD5425E are designed to deliver ideal electrical characteristics. Doing so allows downstream amplifiers to be driven optimally to deliver the best performance with minimal noise and distortion.

CD8445E: 8V at 55Ω, CD5425E: 5V at 55Ω

3-Band EQ
This feature was designed to allow a user to easily adjust the tonal characteristics of program material to suit listening preferences. CD5425E

Multi-Harmonizer
Ideal for obtaining the best sound from MP3, WMA and ATRAC3 music files, this function can be activated to restore the harmonic data that is lost when digital music files are encoded. CD8445E

MOSFET 50W × 4 power amplification
Natural-sounding and dynamic, MOSFETs are used in both CD Receivers because they draw less current and also require less power.

Advanced 24-bit △Σ DAC
All signals remain strictly in the digital domain till they are converted to analogue to drive the power amplification section, minimising distortion and improving S/N ratios. CD8455E

CD8445E: 8V at 55Ω, CD5425E: 5V at 55Ω

Other Features

5-pattern illumination
Allows the user to select a colour that best complements the car’s interior or just to suit user preferences. CD8445E

Sharp displays
The CD8445E has an 8-step full dot Vacuum Fluorescent (VF) display for extremely legible alphanumeric characters and a separate Bright & Dimmer control. The CD5425E sports an LCD display with 3 colours and large, easy-to-see characters with adjustable brightness.

SVC (Source Volume Control)
SVC acts as a master volume control that ensures the volume settings for all program sources stay the same so there are no annoying volume changes when switching sources.

Motion Picture
The CD8445E can be customised to show a personalised motion picture on the display. Motion pictures can be downloaded or original ones can be used with the Cutting Board application to create a sequence of up to 10 sec. Up to 100 images can be used in sequence. CD8445E

Twin security system
ESN
Featured in both models, ECLIPSE’s proven theft-deterrent feature works with a user-designated CD or Memory Stick (CD8445E only) as a key device to lock the system and prevent activation in the case of removal or unauthorised access.

Detachable Front Panel
The front panel detaches and is compact, allowing users another level of security and deterrence.

Options

CD Changer-ready
With 8-CD capability, adding the CH3083 creates an instant mobile music library.

Remote control-ready
Optional unit for more convenient operation.

Contact us for more information on ECLIPSE products.

CD8445E: 8V at 55Ω, CD5425E: 5V at 55Ω

Vary the CD Receiver’s illumination colour to enhance the car’s interior appearance.
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 dUMP. Incorrect installation may affect driving-related conditions, additional connecting cables may sometimes not play 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.

• 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 if may affect operation or compromise unit build integrity.

• Optional MP3 and WMA file reproduction quality depends greatly on the original encoding quality. Depending on the original encoding, files may sometimes not play 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.

• Do not adjust controls while driving. To adjust the controls, stop the car in a safe location.

• 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.

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Specifications

12V Power Supply

<table>
<thead>
<tr>
<th>Feature</th>
<th>CDA4405E</th>
<th>CDA4205E</th>
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</thead>
<tbody>
<tr>
<td>Max. Power Output</td>
<td>50W x 4</td>
<td>50W x 4</td>
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<tr>
<td>RMS Power Output</td>
<td>14W x 4</td>
<td>20W x 4</td>
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<tr>
<td>Treble and Bass Control</td>
<td>+14dB at 120Hz, 0dB at 1kHz</td>
<td>+10dB at 1kHz, -12dB at kHz</td>
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<tr>
<td>Loudness</td>
<td>+0.3dB at 1kHz, 0dB at 1kHz</td>
<td>+0.1dB at 1kHz, -12dB at kHz</td>
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<td>FM Frequency Range</td>
<td>87.5 — 108.0MHz</td>
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<td>FM Usable Sensitivity</td>
<td>14dBf</td>
<td>14dBf</td>
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<td>SSB Quinting Sensitivity</td>
<td>11.2dBf</td>
<td>11.2dBf</td>
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<td>Frequency Response</td>
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<td>15kHz</td>
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<td>Stereo Separation</td>
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<td>22kHz (12kHz)</td>
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<td>MW Frequency Range</td>
<td>522 — 1611kHz (4kHz step)</td>
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<td>MW Usable Sensitivity</td>
<td>20dB</td>
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<td>LW Frequency Range</td>
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<td>LW Usable Sensitivity</td>
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<td>S/N Ratio (A-weighted)</td>
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<td>Total Harmonic Distortion</td>
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<tr>
<td>Volume Separation</td>
<td>85dB</td>
<td>85dB</td>
</tr>
<tr>
<td>Stereo S/N (R-A-weighted)</td>
<td>108dB</td>
<td>108dB</td>
</tr>
<tr>
<td>Dimensions (W × H × D)</td>
<td>1/8 × 3/4 × 11/16in</td>
<td></td>
</tr>
</tbody>
</table>

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