



2006 Mobile Entertainment Catalogue







## 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.





## **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

- 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

#### 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.

## Audio/Visual

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

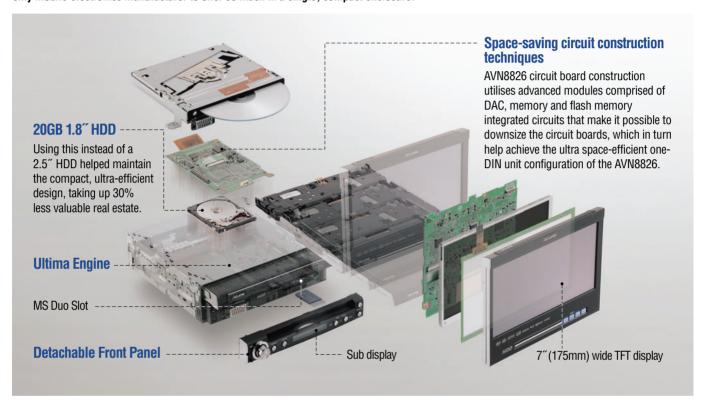
- FM/MW/LW tuner
- Advanced 24-bit ∆∑ DAC
- RDS-TMC (Dynamic Route Guidance)
- High-performance DSP:
  - Parametric equaliser
  - Time alignment
  - Listening Position Selector
- 5V preamp output (with DCU105)
- CD Changer-ready (2 units)

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

Offering **5.1 ch. surround sound (with DCU105)** for surroundencoded 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.

## The technology inside

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.



#### **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.









→ OUTPUT

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

#### **Design accents**

#### Chrome and silver style highlights

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





### Offering the most convenient ways to find your destination.



#### **Address search**

#### An address is all that is needed.



Inputting a street name and number will initiate a search.

#### POI search

## Convenient presets for general inquiries save time.



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

#### POI near

## Making it simple with the easiest locations to get to.



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

#### Map search

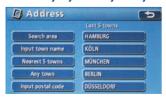
## No more wasting time looking for a map.



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

#### City search

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



Offers a route to the input city's central area. Up to 5 favourite cities can be conveniently grouped. A 32km vicinity of the city can also be shown.

#### **Memory points**

## Presets for instantly accessing a location.



100 useful locations are preset for quickly scrolling through and selecting. Favourite 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.

Routing

**Road preference** 

Allow motorway

Allow time restricted road

Allow ferry

choose from.

**6** Road preference

Allow toll road

Allow season restricted road

Allow car train

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





## 3 routes

Instantly sets three routes no matter the destination. For any destination, a choice of Quick 1, Quick 2 and Short routes to suit personal preferences adds flexibility.

#### **Enroute stopping points**

#### Choose when and where to take breaks.

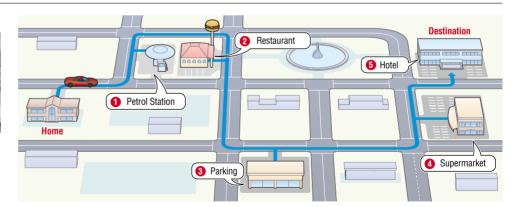
Preset travel method preferences such

factored into the routes the the user can

as motorways and toll roads are



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 in to the route.

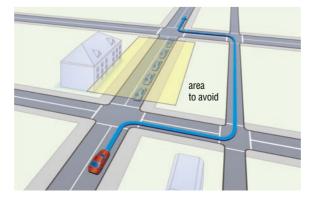


#### **Detours**

#### 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**



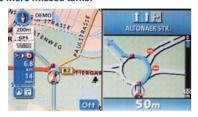
Any selected route can be conveniently previewed in its entirety to get familiarised with it.



## 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.





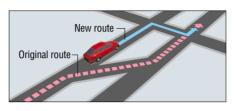
Display automatically splits as an intersection is approached.

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)

#### **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.

#### **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.





## 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

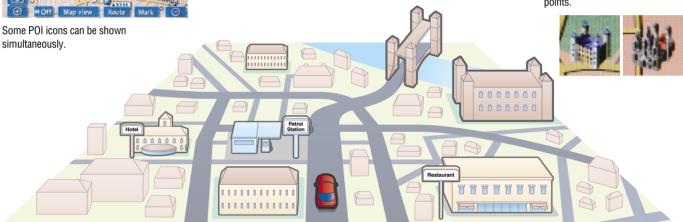


# POI genres simultaneously onscreen: 5



#### 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.



#### Split screen function



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

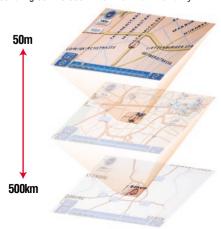
#### Time zones



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

### Versatile zooming

Map scale can be quickly controlled by shifting magnification values. Seamless zooming is broader, covering 50m to 500km for maximum flexibility.



#### Smooth multi-directional scrolling

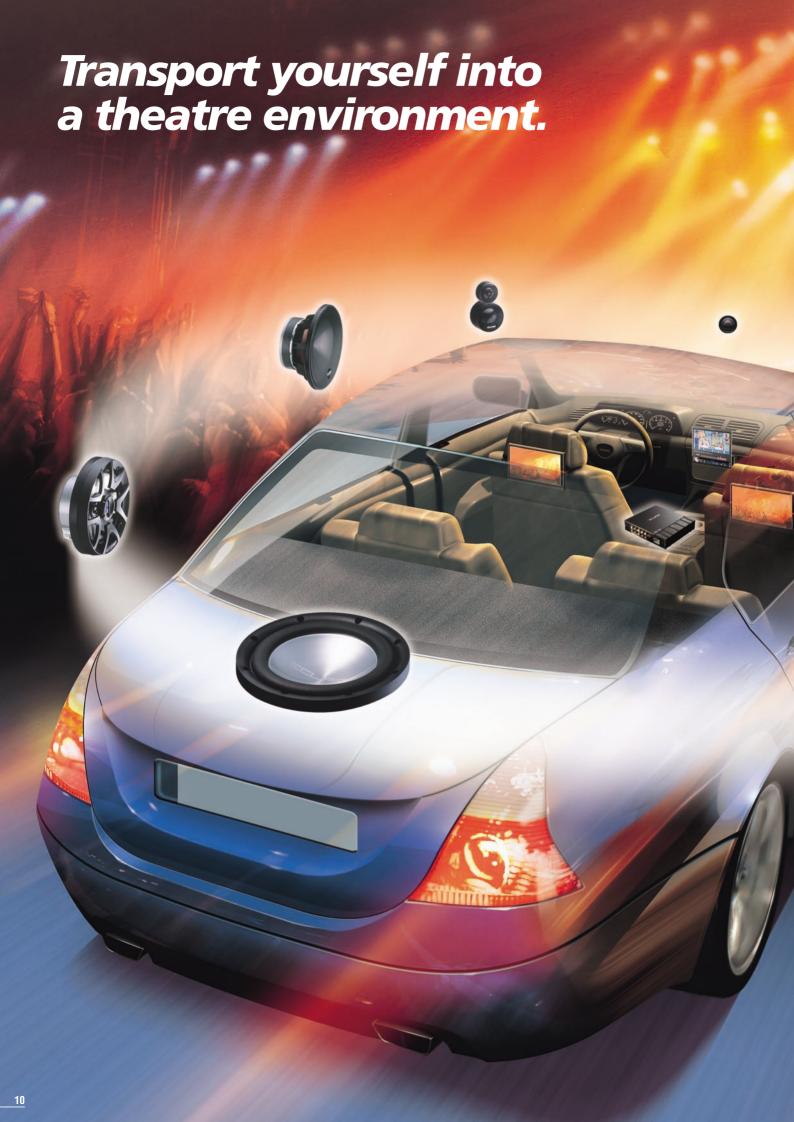


Just a light fingertip touch is all that is needed on the touch control screen for the map to scroll by smoothly and accurately following the fingertip.

#### Mapping coverage



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





MONITOR2

VTR1 VTR2

Monitor 1

Monitor 1

Monitor 2

#### High-end performance comparable to dedicated components.

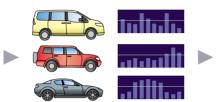
### AVN8826 + DCU105 — Precision tonal contouring for accurate sound.

#### Parametric EO Pro

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



Test microphone picks up the system's frequency response.



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

Note: test microphone not supplied with the AVN8826 Please contact your ECLIPSE deale



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

#### **AVN8826**

#### Normal Mode

Perform easy audio customisation using the AVN8826 by itself.

#### 7-band Parametric EQ

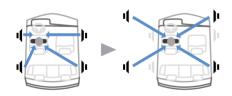


Simpler parametric equalisation function can adjust the "Q," i.e. bandwidth, of each of the 7 centre frequencies from wide to narrow in 3 steps.

#### 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.



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

#### Front 1-way example



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

#### Front 3-way example



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

#### AVN8826

#### **Time Alignment**

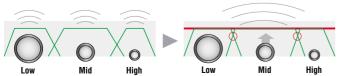


A simpler time alignment performed by selecting the car type and speaker positions, then adjusting each speaker level. Delay parameters are then adjusted for a time-aligned response.

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

#### **Crossover Pro**

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



Discontinuities between speaker units can be heard

Integrating the sound from different speakers into an organic, whole sound

that is more natural and lifelike.



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**

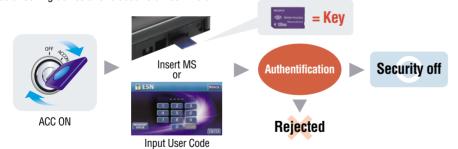
Easy directional controls and a visual indicator make it easy to set system-wide balance in any direction to suit user preferences.



## **Twin Security System**



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**



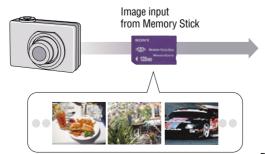
The front panel detaches and is compact enough to be portable, allowing users another level of security and deterrence.

#### 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.

#### 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.

## 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.

#### 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**

realules List	
Media	
HDD	1.8″ 20GB
DVD	0
CD	O*1
Memory Stick Duo	O*2
Navigation	<u> </u>
Navi Device	
HDD Navigation	0
Ultima Engine	0
Displaying	7″/475 ) 504
Display	7" (175mm) EGA
Map colours	32,768 colours
Split screen	0
Street name	0
Point-of-Interest (POI)	0
Landmark 2D/3D	10,767/334 points
Operation	
Touch-Panel control	0
Searching	
Address search	0
POI search	0
POI near search	0
Map search	0
Memory search	100 points
Previous search	100 points
Intersection search	O
	0
Motorway search (ENTER/EXIT)	
Coordinates search	0
Telephone number search	0
Home search	0
Quick access point search	5 points
Routing	
3 routes information	0
Detours	10 areas
Enroute stopping points	5 points
Route preview	0
Assistance	
Voice announcement	10 languages
Voice announce switch L/R	0
Voice announce volume control	8 steps
Intersection zooming	0
Motorway guidance	0
Auto rerouting	0
Estimated arrival time	0
RDS-TMC	0
Entertainment	Ü
Preset wallpaper (still images/moving images)	5 patterns/5 patterns
Pic-CLIP	100 images*3
Welcome screen	•
	0
Security Noticely	
ECLIPSE Security Network	0
Detachable front panel	0
Other	
Select User	3 persons
Telephone mute	0

	AV/M0026 only	D <u>CU105</u>	connected	
AUDIO	AVN8826 only	Front 1-way system	Front 3-way system	
DVD				
DVD-Video	○ (Single/Dual Layer)			
DVD-R/RW, DVD+R/RW*4	○ (Single/Dual Layer)			
Dolby Digital 5.1ch.	— O			
dts 5.1ch.	- 0			
Dolby Pro Logic II	- 0			
CD				
CD	0			
CD-R/RW	0			
MP3		0		
WMA	0			
MS				
ATRAC3	(Magic Gate Memory Stick Duo)			
Audio function				
Time Alignment	Car type: 6 types, Speaker position: Tweeter Rear SP	Front (L/R), Rear (L/R), Centre, Subwoofer	F-Hi (L/R), F-Mid (L/R), F-ML (L/R), R (L/R), Centre, Subwoofer	
Parametric EQ	7 bands	F/R/C: independent	5 bands, SW: 1 band	
Crossover		F (HPF)/R (HPF)/ C (HPF)/SW (LPF)	F-Hi (HPF), F-Mid (HPF/LPF), F-ML (HPF/LPF R (HPF), SW (LPF)	
Multi-Harmonizer	MP3/WMA/ATRAC3			
Listening Position selector	FR, FL, F, R, OFF			
Non Fader Level/Phase control	_		)	
Audio device			<u> </u>	
MOSFET amplifier		50 W×4		
Advanced 24-Bit $\Delta\Sigma$ DAC		00 11 11		
Pre Amp Output	_	Front/Rear/Centre/Subwoofer, 5V		
AV Output	1 pair	2 pairs		
AV Input	1 pair	2 pairs		
Digital Output (Coaxial)	i puii	i pair 2 pairs		
Digital Input (Coaxial)	_			
Digital Input (Optical)	_		0	
ANALOGUE RADIO TUNER			<u>-</u>	
FM		FM1: 6, FM2: 6		
MW/LW	MW: 6/LW: 6			
RDS Tuner	AF. REG. TP. TA. PS. PTY. EON			
OPTIONAL		,,,,,,		
CD Changer-ready	T	2 (daisy chain)		
Rear View Camera-ready		O Country		
Rear Monitor Input	1	2		
External device Input	1	2		

\*1 Ripping not available
\*2 Memory Stick Duo is sold separately and compatible with 128MB or under.
\*3 100 images can be stored. (each image should be below 2 MB in MS Duo. Only JPEG files are available
\*4 Please refer to Note and Precautions.

## **Specifications**

GENERAL		
Power output	50 W × 4 (MAX)	
RMS power output (1 kHz, 1%THD $4\Omega$ )	13W×4	
Dimensions (W $\times$ H $\times$ D)	180 × 50 × 165mm	
Weight	2.3 kg	
DISPLAY		
Display	7" (175mm) wide (16:9), low-glare panel	
Resolution	336,960 dots (480 × 234 × 3)	
Screen aspect ratio	4 types	
FM TUNER		
Frequency range	87.5 — 108.0MHz (50kHz step)	
Usable sensitivity	19dBf (98.1MHz)	
MW TUNER		
Frequency range	522 — 1,611kHz (9kHz step)	
Usable sensitivity	29μV (999kHz)	

LW TUNER		
Frequency range	153 — 279kHz (3kHz step)	
Usable sensitivity	89μV (216kHz)	
CD SECTION		
Frequency response	20 — 20,000Hz ±3dB	
Total harmonic distortion	0.04% (0 dB 1kHz)	
MS SECTION		
Frequency response	20 — 20,000Hz ±3dB	
Total harmonic distortion	0.04% (0 dB 1kHz)	
EQUALISER SECTION		
Parametric equaliser	63 Hz — 16kHz (25 points) ±10dB	
HDD SECTION		
Operating temperature range	−10 — 65°C	
Storage temperature range	−40 — 85°C	





### CD Receivers

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.



















MOSFET 50W × 4 (max.)

#### **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  $55\Omega$ impedance
- 8-step full dot VF display
- MS/CD ESN security
- 3 prs. pre outputs
- · Aux input
- · Remote control









**CD5425E** 

MOSFET 50W × 4 (max.)

#### **Superb Sound Quality CD Receiver with MP3**

CD, CD-R/RW and MP3 FM/MW/LW tuner **RDS tuner** MOSFET 50W × 4ch **Detachable Front Pane** 

- 1-bit DAC
- 3-band Graphic EQ
- Crossover
- Source Volume Control
- 5V preamp output with low  $55\Omega$ 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.



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





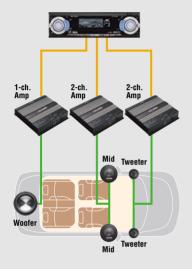
#### **Audio customise**

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.

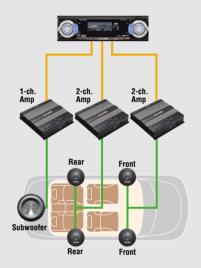


Time Alignment creates better imaging and a more natural system sound by making sure the sounds from all the speakers arrive at the listener's ears simultaneously. The delay time and level parameters for each speaker can be easily set individually for the most accurate results.

**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.

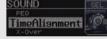
Parametric EQ controls frequency peaks and dips that compromise absolute sound quality in most cars. PEQ provides the precise frequency control to defeat frequency anomalies for a satisfying, well-balanced sound. Each channel has 5 frequency bands for precision adjustment.

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





Setting mode















**Time Alignment** 

Crossover

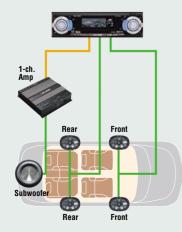
Parametric EO

Crossover

Time Alignment

#### **Pro Mode off**

For optimising system response for a 4-speaker plus subwoofer system the easy way, simple to follow menus are presented.



Setting mod





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.





Parametric EO

**Time Alignment** 









#### 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 55 $\Omega$ , CD5425E: 5V at 55 $\Omega$ 

#### 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 $\times$ 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 $\Delta \Sigma$ 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



### 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











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

#### **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-tosee 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**

8-Disc CD Change

with Magazine Unit

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



Featured in both models, ECLIPSE's proven theft-deterrent feature works with a userdesignated 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. CH3083



#### RMC105 Wireless Remote Optional for: CD5425E





Dedicated cable for connecting an external portable player. CD5425E AUX IN.

#### Feature List

realule List			
	CD84	145E	CD5425E
CONTROL			
Remote Control	•		Optional
CD Changer Control			•
CD-R/CD-RW			•
WMA			_
MP3			•
Digital Servo System (DSS)			•
TUNER			
FM/MW/LW			•
RDS Tuner		AF, REG, TP, TA	A, PS, PTY, EON
AUDIO			
Output Voltage and Impedance	8V/55Ω		5V/55Ω
MOSFET Amplifier			•
Advanced 24-Bit $\Delta \Sigma$ DAC			_
Source Volume Control (SVC)			•
Sound Control Mode	Professional		
	On	Off	_
Circle Surround II	_	•	_
Bass/Mid/Treble Control	•	_	•
Time Alignment	•	•	_
Parametric EQ	10-band	7-band	_
Multi-Harmonizer (MP3/WMA/ATRAC3)	•	•	_
Listening Position Selector	_	•	_
Crossover	•	•	•
Non Fader Level / Phase Control	•	•	•
Frequency Response Analysis	•	•	_
3-band Graphic EQ	_		•
Dual Pre Outputs			•
Non-Fader Pre Outputs			•
AUX In			Optional
GENERAL			
5-pattern illumination			_
Dimmer Control	<b>—</b>		_
ATRAC3 Decoder	-		_
ESN security	MS/CD		CD
Detachable Front panel	IVIO/OD		•
Display	8-step VF		LCD
Full Face Tilt	0 3tcp VI		•
E-LAN data link system			•
Telephone mute			•
.o.opo.o muto		-	

#### Specifications

opecificat		_	-	
14.4V Powe		CD8445E CD5425E		
Max. Power		50W×4		
RMS Power		14W×4 (20 — 20,000Hz, 1% THD, 4Ω)		
Preamp Out	tput and Impedance	8V(0dB)/55Ω	5V(0dB)/55Ω	
Tone .	Bass/Mid/Treble	±12dB at 80Hz/±12dB at 630Hz/±12dB at 10kHz		
Control	Loudness	+10dB at 100Hz/+6.5dB at 10kHz		
FM	Frequency Range	87.5 — 108.0 MHz (50kHz step) 13dBf 14dBf 30 — 15,000Hz		
	Usable Sensitivity			
	50dB Quieting Sensitivity			
	Frequency Response			
	Stereo Separation	38dB (	(1kHz)	
MW	Frequency Range	522 — 1,611k	522 — 1,611kHz (9kHz step)	
	Usable Sensitivity	20μV		
LW Frequency Range		153 — 279kHz (3kHz step)		
	Usable Sensitivity	30μV (216kHz)		
CD	Frequency Response	20 Hz — 20,000Hz		
	S/N Ratio (A-weighted)	100dB	95dB	
	Total Harmonic Distortion	0.008%		
	Channel Separation	85dB	80dB	
Memory	Frequency Response	20 — 20,000Hz	_	
Stick	S/N Ratio (A-weighted)	100dB	_	
	Total Harmonic Distortion	0.008%	_	
Dimensions	S (W×H×D)	178 × 50 × 155mm		

#### Notes and Precautions

#### Product safety notice

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

#### Warning

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

#### Caution

- Installation of products requires experience and knowledge. Ask your ECLIPSE retailer for proper installation.
- ECLIPSE cannot guarantee that every product it manufactures will be able to be installed in every vehicle model or make. To be sure, please consult your ECLIPSE retailer.
- In some cases due to installation-related considerations, additional connecting cables may need to be purchased for an ECLIPSE product.
- The rear view camera is a parking aid. It must be used only to supplement your vehicle's side view and rearview mirrors. It is not a substitute for mirrors and careful driving.

  Do not remove the HDD from the head unit.
- 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 unauthorised removal or tampering with the HDD.
- Please be sure to follow instructions provided in the installation manual for correct procedures as incorrect installation may affect driving-related operation and/or airbag operation.

- Please make sure only the official parts supplied with the unit are used. Do not substitute other parts as it may affect operation or compromise unit build integrity.
  Optimal MP3 and WMA file reproduction quality
- Optimal MP3 and WMA file reproduction quality depends greatly on the original encoding process. Depending on the original encoding, files may sometimes not playback properly.
- The ECLIPSE navigation system requires its dedicated database for optimal performance. Do not insert other database DVDs that may cause the unit to malfunction or not respond.

#### General

- Product design and specifications are subject to change without prior notice or obligation as ECLIPSE reserves the right to constantly seek to improve its products.
- Due to characteristics and properties of various photography and printing processes, the colour(s) of the actual product may slightly differ from those shown on these pages.
- Some screen images shown are simulated.

#### Licensing and Trademarks

- "Dolby", "Pro Logic" and the double D symbol Daare trademarks of Dolby Laboratories and the Dolby Laboratories Licensing Corporation.
- "dts" and "dts Digital Out" is a trademark of Digital Theater System, Inc.
- Circle Surround II and the SRS logo are trademarks or registered trademarks of SRS Labs, Inc.

  Memory Stick is a registered trademark of Sony
- Corp.
- Magic Gate is a registered trademark of Sony Corp.

#### Others

- Some recent audio discs may resemble conventional music CDs but are technically not Compact Discs (CD Red Book format) because of the copy protection technology employed. ECLIPSE cannot guarantee operation and performance if these discs are used.
- DVD-R/RW and DVD+R/RW playback is possible only for discs formatted for video mode.
- VR (Video Recording) mode-recorded discs and discs not finalised will not play in the unit.
- discs not finalised will not play in the unit.

  Some PC-authored discs may not play due to software application settings during authoring.
- DVD-R/RW, DVD+R/RW and CD-R/RW playback quality may be affected by disk surface condition and disc format initialisation process.
   DVD-R/RW DVD+R/RW CD and CD-R/RW discs.
- DVD-R/RW, DVD+R/RW, CD and CD-R/RW dis may not operate perfectly on unit due to disc imperfections.
- DVD-R/RW, DVD+R/RW, CD and CD-R/RW disc performance may suffer if a disc exhibits excessive wear, dirt and scratching
- ATRAC3 is an efficient compression codec for digital music files, allowing files to take up just 1/10 their uncompressed size without degrading audio quality.
- Playback of song data is only possible on Magic Gate-compatible memory stick devices.
   Memory Sticks up to 128MB can be used.
- Memory Sticks up to 128MB can be used.
   Initialisation 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.

#### Operation notes

- DVD-Video compatible units are only compatible with NTSC/PAL standards and Region-2 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

- 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.
- Do not watch moving images on a product display while driving as doing so may lead to an accident resulting in serious injury or death.

## **FUJITSU TEN LIMITED**

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