ECLIPSE

New beginnings

AVN
AUDIO VISUAL NAVIGATION

2009 Mobile Entertainment Preview

FUJITSU TEN

The perfect finishing touch

AVN4430 NEW

DVD-Video/USB Multi-Source Receiver/
4.3″ Portable Navigation/Built-in Bluetooth® wireless technology

MP3 WMA DIGITAL AUDIO TEXT DVD VIDEO DOLBY DIGITAL Bluetooth® SAT RADIO READY ‹USB›

| 4.3in 4.3″ WIDE DISPLAY | DVD-VIDEO | CD/CD-R/CD-RW | BUILT-IN Bluetooth® | iPod® DIRECT CONNECTION | TOMTOM TRAFFIC INFORMATION | TOMTOM SERVICES | DETACHABLE TOMTOM PND |

AVN AUDIO VISUAL NAVIGATION

TOMTOM™

Made for iPod

INNOVATIONS® INTERNATIONAL CES
DESIGN & ENGINEERING SHOWCASE HONORS
2009

• Detachable TomTom Navigation • Factory-fit in-dash appearance • Spoken instructions from car speakers • Touch control • Choose preferred route • Multi-language selection • 4.3″ WQVGA display • DVD mechanism • Built-in Bluetooth® wireless technology • USB connection • TomTom Services • Blue/Red switchable illumination • Multiformat-capable: DVD, DVD-R/RW, CD, CD-R/RW, MP3, WMA • Independent bass/mid/treble and loudness controls • Source Volume control • Crossover (low pass filter) • MOSFET 50W ✕ 4 channel outputs • Direct iPod® connection for audio/video • Accessories: SIRIUS Satellite Radio Tuner, XM Satellite Radio Tuner, Rear view camera, Travel Kit, AUX Cord

*iPod® use requires a separately available connecting cable.

Driving enhanced

Features that make all the difference when you drive. From safety-related to full-on entertainment, the AVN4430's got it all.

Built-in Bluetooth® for hands-free operation

The AVN4430 lets you safely and effortlessly handle calls with its built-in Bluetooth® wireless technology supporting hands-free operation. Requiring no headsets, a sensitive built-in mic picks up your voice and routes incoming calls through the car speaker.

A Rear View Camera for added safety

The Rear View Camera allows you to see blind spots behind a vehicle by automatically projecting its rear view on the display whenever the gear is in reverse.

DVD video and iPod® video/audio playback

The in-car entertainment for audio and video is fully featured with a DVD slot that emerges with a push of a button. Instantly connect your iPod® to access your music and video with full controls on-screen. A separate USB connector maximizes the AVN4430's connectivity.

Proven navigation

Quick response touch control

The AVN4430 incorporates TomTom's highly acclaimed navigation with quick response touch control to boost your driving experience.

TomTom Map Share™

A revolutionary map updater, the TomTom Map Share even lets you fix map errors yourself on the spot or incorporate corrections made by others on the web through PC connection.

Download useful contents

TomTom's rich downloadable contents include not only traffic and weather information, but also:
• Safety camera information
• POI edit
• Navigation voice change
• Map color
and much more.

A true road companion

AVN4430 NEW

DVD-Video/USB Multi-Source Receiver/4.3″ Portable Navigation/Built-in Bluetooth® wireless technology

Portable design for maximum convenience

6:00 pm **Bring it home with you**

The AVN4430's innovative navigation screen detaches from the dock, allowing you to take it with you when leaving your car.

10:00 pm **Planning ahead**

When you're preparing to travel, you can connect the AVN4430's navigation screen to your computer to conveniently check online the latest driving information, software updates, as well as updated maps to customize them to your preferences.

8:00 am **Review your travel plan**

Go over your selected route to make sure everything you might need in the way of maps and related information that could be useful on your trip is included.

Works with any car, and not just your own

Use anywhere

The AVN4430's navigation screen can be easily used in other cars by attaching it to a dedicated mounting unit. (sold separately)

Note: please check your state's accessory mounting regulations before use.

Take it with you when you leave the car

Security

The compact navigation design allows you to take the unit with you, reducing the chances of break-ins and theft in your car.

9:00 *am* Off you go!

Put the AVN4430's navigation section into its docking station and you're good to go. If you'll be using another car or a rental, it's easy to install just the navigation section in it.

Designed to excel

Stunning images and dynamic sound create an exceptional in-car experience.

AVN726E **NEW**

DVD-Video/USB Multi-Source Receiver/7″ Wide Screen Monitor/
Navigation/Built-in Bluetooth® wireless technology

5V PRE-OUT · ESN · MP3 WMA · COMPACT DISC DIGITAL AUDIO · DVD VIDEO · DivX · DOLBY DIGITAL · Bluetooth® · HD Radio® READY

SIRIUS Traffic · SAT RADIO READY · ‹USB›

FLASH MEMORY NAVIGATION · QVGA 7″ WIDE DISPLAY · DVD-VIDEO · CD/CD-R/CD-RW · TRAFFIC INFORMATION READY · BUILT-IN Bluetooth® · iPod® DIRECT CONNECTION · iTunes® Tagging

AVN® AUDIO VISUAL NAVIGATION

Made for iPod

INNOVATIONS INTERNATIONAL CES™ BEST OF INNOVATIONS 2009

• Flash memory navigation • 7″ wide QVGA display • Touch control • approx. 16,270,000 POIs • Traffic information • Multiformat-capable: DVD, DVD-R/RW, DivX, CD, CD-R/RW, MP3, WMA • Multiple search modes • Voice guidance in English, Spanish and French • MOSFET 50W ✕ 4 channel outputs • FM/AM • 3-band EQ • Low Pass Filter • 5V preamp output • Blue/Red switchable illumination • Video output for rear monitor • AV input • Direct iPod® connection (USB) • ESN (Key CD security) • Accessories: SIRIUS Traffic Radio Tuner, SIRIUS Satellite Radio Tuner, XM Satellite Radio Tuner, HD Radio Tuner (iTunes® Tagging), Rear view camera, Side view camera

Maximum satisfaction

Effortless operation

The 2GB flash memory navigation stands out with beautiful graphics and easy to use operations. Map scrolling and zooming are processed instantly without any delay. It's a simple matter to keep the map displayed exactly where you want it.

A few touches on screen and you're ready to go!

Recognizable icons and simple search routines.

Maximum entertainment

All you could want is right in the AVN726E
• DVD playback
• iPod® music and video
• Satellite radio
• HD Radio along with iTunes® Tagging
• Bluetooth® hands-free calling and audio streaming

SD Card aids navigation

Download the most up-to-date map information onto an SD card to transfer over to the AVN726E and never deal with outdated maps again.
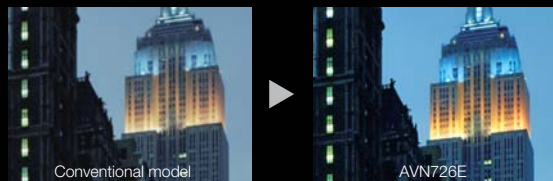
ESN adds peace of mind

ECLIPSE's acclaimed security feature can be activated with the engine switched off, preventing tampering and unauthorized removal. A deterrent warning flashes, warning that ESN is operating. A user-designated CD can be used to "lock" the unit and make it unoperable unless the same device is used for "unlocking."

Maximum beauty and sound quality

Clarity

Conventional model → AVN726E

The advanced digital image processing technology adjusts for optimum outlining, color-depths and contrasts to make the image more vivid. The digital to digital TFT monitor further improves contrast by keeping data transfers in digital format and eliminating noise and smears caused by conventional analog conversion processes.

These images are not the actual screen shots and are shown here for the explanatory purposes.

Emphasis on sound quality

The ECLIPSE commitment to sound quality involves constant testing and evaluation of strictly selected components such as Elna capacitors and coils, offering an audiophile-grade 5V preamp out, and extensive listening to ensure the highest sound quality.

Match colors

Versatility with 5 colors to match the new generation of iPods.

Focus on music

CD5030 *NEW*

Made for iPod

CD/USB Multi-Source Receiver/
Built-in A2DP Bluetooth® wireless technology

5V PRE-OUT · ESN · MP3 · WMA · COMPACT DIGITAL AUDIO TEXT · Bluetooth® · HD Radio® READY · SAT RADIO READY · USB

MOSFET 50W × 4	iPod® DIRECT CONNECTION	iTunes® Tagging	BUILT-IN Bluetooth®	ENHANCED DSP	Blue/Red SWITCHABLE ILLUMINATION	TWIN SECURITY

• Built-in Bluetooth® wireless technology • USB connection • Monochrome OEL display • MOSFET 50W × 4 channel outputs • 7-band PEQ and loudness control • Auto EQ (using a microphone) • Time Alignment (Auto/Easy) • Crossover • 5V preamp output • Blue/Red switchable illumination • Twin security system • Remote control • E-LAN data link system • AUX input • Direct iPod® connection (USB) • Simple search function for iPod® • Detachable front panel/ESN (Key CD Security)   • Accessories: SIRIUS Satellite Radio Tuner, XM Satellite Radio Tuner, HD Radio Tuner (iTunes® Tagging), CD Changer (up to 2 units), AUX Cord

CD7200 mkII

INNOVATIONS DESIGN & ENGINEERING SHOWCASE HONORS 2008

CD/USB Multi-Source Tuner with Bluetooth® wireless technology

8V PRE-OUT · E-iSERV · ESN · MP3 · WMA · COMPACT DIGITAL AUDIO TEXT · Bluetooth® · SRS Circle Surround II
HD Radio® READY · SAT RADIO READY · USB

W/O AMPLIFIER	8V HIGH VOLTAGE	iPod® FULL CONTROL READY	BUILT-IN Bluetooth®	ADVANCED DSP	6-PATTERN ILLUMINATION	TWIN SECURITY

• No power amplification • Copper-plated chassis • Gold-plated RCA pins • Built-in Bluetooth® wireless technology • USB connection • Fulldot VF display • E-iSERV connectivity • 11-band / 7-band PEQ • Time alignment • Crossover • Circle Surround II • Multi Harmonizer • 8V Pre-Out • 6-pattern illumination • Remote control • E-LAN data link system • AUX Input • Full iPod® control • Detachable Front Panel/ESN(Key CD Security) • Accessories: SIRIUS Satellite Radio Tuner, XM Satellite Radio Tuner, HD Radio Tuner, CD Changer (up to 2 units)

CD1200

CD/USB Multi-Source Receiver

MP3   WMA   AAC   **disc**   ‹USB›

| 40W × 4 | iPod® DIRECT CABLE* | USB CONNECTION | 3-band EQ | Red/Green SWITCHABLE ILLUMINATION | DETACHABLE FRONT PANEL |

• USB connection • 40W × 4 • 3-band EQ • Remote Control-ready • AUX Input • Full iPod® control • Detachable Front Panel • Red/Green switchable illumination

*full control, no interface needed.

Accessories

Digital radio options

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

For instant real-time traffic with the AVN726E

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

ECL-SC1
SIRIUS SATELLITE RADIO INTERFACE

To be used in conjunction with the SC-C1 for
receiving satellite broadcast content.
Use with: AVN726E, AVN4430, CD7200 mkll

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

HDR109
NEW

HD Radio Tuner Unit

Use with: AVN726E*, CD7200 mkll, CD5030*

*iTunes® Tagging available.

Dimensions (W × H × D)
5-9/16˝ × 1-1/8˝ × 3-1/16˝ (141 × 29 × 78mm)

XM Tuner
***not an ECLIPSE product**

This option from Audiovox allows receiving XM
satellite radio broadcasts. A separate cable is
required.

Note: for details about this product, please consult
your dealer.

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

Interface Adapter for iPod®

iPod® full control: AVN726E, AVN4430, AVN6620, CD7200 mkll, CD5030, CD2030, CD3200 and CD1200

Made for iPod

iPC-709
NEW
Direct Cable for iPod®

For connecting an iPod® to the AVN726E to integrate an
iPod's contents and controls with the car's system.

Made for iPod

iPC-409
NEW
Direct Cable for iPod® for AVN4430

For connecting an iPod® to the AVN4430 to integrate an
iPod's contents and controls with the car's system.

Made for iPod

iPC-109
NEW
Direct Cable for iPod®

For connecting an iPod® to the CD5030 to integrate an iPod's
contents and controls with the car's system.

Made for iPod

iPC-008
Direct Cable for iPod® for CD Receiver

For connecting an iPod® to the CD1200 to integrate an iPod's
contents and controls with the car's system.

Made for iPod

iPC-106
Interface Adapter for iPod®

For connecting an iPod® to specific ECLIPSE headunits to
integrate an iPod's contents and controls with the car's system.
Use with: CD7200 mkll

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

For expanding entertainment options

MRE-700
7˝ Widescreen Monitor

Delivers stunning quality for rear seat
entertainment, with automatic dimming and
built-in speaker.

Dimensions (W × H × D)
6-3/4˝ × 1-1/16˝ × 4-9/16˝ (171.5 × 25.5 × 115.1mm)

MRE-700W
7˝ Widescreen Monitor Package

All components and hardware to assemble and
configure a rear seat entertainment system.

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

WHP-100
Wireless Headphones

Useful for enjoying independent rear seat
entertainment. Works on 2 different frequencies.

E505CSP
Center Speaker with Power Amplifier

Enhance surround sound center channel output
with this unobtrusive powered speaker.

For expanding entertainment options

BT-E600
Hands-Free Car Kits
Parrot Bluetooth®
Allows hands-free operation with the CD1200

MDV-09D `NEW`
2009 Version Update Navigation Disc
For: AVN2454, AVN5435, AVN6600 and AVN5500

MDV-79D `NEW`
2009 Version Update Navigation Disc
For: AVN6620, AVN6610 and AVN5510

MDV-09D/79D data compiled as of December 2007. POI category now increased to 8.76 million points and City Maps* cover more areas.

*For City Map coverage details please visit the ECLIPSE website.

Travel Kit

TRK-409 `NEW`
Travel Kit

All the most useful options for getting the most from the AVN4430.

- Home charger
- Windshield dock*
- Headunit cover
- Installation poster
- CLA-mini USB

*please check your state's accessory mounting regulations regarding the windshield dock before use.

Cassette Tuner

4502
ESN E5 Cassette Tuner
with CDC/DSP Control and Remote

A cassette-based music library can still return significant musical enjoyment when played on this dedicated unit which also connects to an ECLIPSE CD Changer to allow CD listening 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

Equalizer

EQ1000
5-Band Graphic/1-Band Parametric
Equalizer/Crossover

Versatile unit for achieving a smooth, well-integrated speaker response over the full frequency bandwidth.

- 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

CH3083
8-Disc CD Changer with Magazine Unit

Whether holding up to 8 CDs or CD-R/RW discs, this unit offers the easiest way to significantly increase an in-car music library.

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

For more driving assistance

BEC108 `NEW`
Rear View Camera

The BEC108 optional rear camera can be connected to the AVN units to facilitate parking.

Note: Using the BEC108 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 BEC108 together with the FEC106 also requires the CAB106 Power Supply for Camera.

CAB106
Power Supply for Camera

MEI-100
Pro Tuning Microphone

Measures system response to help optimize system frequency response.

Optional for: CD7200 mkII and CD5030

RMC105
Wireless Remote

This remote is for controlling the audio functions of the head unit.

Optional for: CD1200

AUX105
AUX CORD

Works with AVN4430, CD7200 mkII and CD5030

Amplifiers

ZA1200 — 1000W

1KW High Power 1 Channel Monoblock Class D Subwoofer Amplifier

• ICEpower® full-range Class D operation
• Very high efficiency rate with minimal heat build-up • Flexible low pass 18dB/octave filter to match amplifier to speaker/subwoofer and Subsonic filter • All connections and fuses conveniently side-mounted

XA4200 — 100W × 4

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

XA 1200 — 500W

1 Channel Monoblock Class D Subwoofer Amplifier

• ICEpower® full-range Class D operation • Very high efficiency rate with minimal heat build-up • Hi and lo pass 18dB/octave filters to match amplifier to speaker/subwoofer and subsonic filter • All connections and fuses conveniently side-mounted

EA4200 — 60W × 4

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

• Class D operation
• Very high efficiency rate with minimal heat build-up

Subwoofers — SW8200 Series

SW8210 *NEW*

12˝ Subwoofer (4Ω)

SW8010 *NEW*

10˝ Subwoofer (4Ω)

• RMS power handling: 750W/700W • Anodized aluminum dome and airified paper cone • Dual flat polycotton spiders • Single 4Ω inside/outside voice coil • Backplate venting system • Progressive "S" surround

Subwoofers — SW6200 Series

SW6210

12˝ Subwoofer (4Ω + 4Ω)

SW6010

10˝ Subwoofer (4Ω + 4Ω)

• RMS power handling: 500W/450W • Max. power handling: 1500W/1300W • Kevlar composite cone • Dual 4Ω aluminum voice coil • ABS + 15% fiber-filled magnet covered • Injection santoprene surround • Rubber gasket • Flat pc spider • Air vent cooling system • Quad 10 awg chrome terminals

Subwoofers — SW4200 Series

SW4210

12˝ Subwoofer (4Ω + 4Ω)

SW4010

10˝ Subwoofer (4Ω + 4Ω)

• RMS power handling: 250W/200W • Max. power handling: 750W/600W
• Kevlar composite cone • Integrated grill assembly • Foam surround
• Polycarbonate spider • 43oz magnet (SW4210), 30oz magnet (SW4010)
• 4-layer aluminum single voice coil • Air vent cooling system

SW4200 BXD

12˝ × 2 Subwoofer System

• RMS power handling: 250W
• Max. power handling: 750W
• Single 4Ω terminals

Component Series Speakers — 3-Way SC-Series

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″

Component Series Speakers — 2-Way SC-Series

SC6900
**6-9″ 2-Way Driver
with 1″ Aluminum Tweeter**

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

SC6500
**6-1/2″ 2-Way Driver
with 1″ Aluminum Tweeter**

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

Point Source Series Speakers — 2-Way SP-Series

SP6910
6 × 9″ 2-Way Point Source

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

SP6510
6-1/2″ 2-Way Point Source

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

SP5710
5 × 7″ 2-Way Point Source

- RMS power handling: 75W
- Max. power handling: 225W

SP5010
5-1/4″ 2-Way Point Source

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

Integrated Series Speakers

SE6900
6 × 9″ 4-Way

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

SE6800
6 × 8″ 3-Way

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

SE5700
5 × 7″ 3-Way

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

SE6500
6-1/2″ 3-Way

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

SE5000
5-1/4″ 3-Way

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

SE4600
4 × 6″ 3-Way

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

SE4000
4″ 3-Way

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

SM6500
Marine Loudspeaker

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

AVN4430 Feature List

AVN4430	
Display	
Display Size	4.3″ WQVGA
Touch Panel Control	●
Dimmer Control	●
Navigation	
Navigation Device	Flash memory + SD
Built-in Memory Map Storage	2GB
Coverage	US, CA, Hawaii, Alaska, Puerto Rico
Display Languages	22
Voice Instruction Languages	36
Speed Pulse	●
Gyro Sensor	●
POI	approx. 2,988,000 points
City Map	●
Emmergency Search	● (Help me! Menu)
Multiple Routing	●
Real-time Traffic Info	● (TomTom Traffic)
Last Docked Search	●
Voice Recognition	●
TomTom PLUS Services	●
Map ShareTM (Real-time Map Update)	●
Easy Map Update (using a PC)	●
Steering Remote-ready	●
Compatible Media/Format	
CD, CD-R/RW	●
DVD-Video, DVD-R/RW, DVD+R/RW	●
DVD Picture Format	NTSC
MP3	● (CD/USB)
WMA	● (CD)
Audio Functions	
Preamp output	F/R/NF, 3V 6CH
Video Input	●
Source Volume Control	●
Source Tone Memory	●
Loudness	●
Crossover (Low Pass Filter)	●
EQ	● (Bass/Mid/Treble)
Balance/Fader control	●
Non-Fader/Phase level control	●

External Interface	
Bluetooth Unit	Built-in
iPod	● (iPC-409)
iPod Video	● (iPC-409)
USB (Audio)	●
HD-Radio	—
XM Tuner	●
SIRIUS Tuner	●
AUX input	●
TV Tuner	—
Rear View Camera	●
Rear Monitor	●
Other	
Illumination	Blue/Red
Tilt	● (6 steps)
TEL Mute	●
PND Part Functions	
Bluetooth Hands-free Call	●
Mic for Hands-free Call	● (Built-in)
Opening Picture Customizing	●
Picture Viewer	●
USB Version	1.1, Full-speed

AVN4430 Specifications

AVN4430	
GENERAL	
Power output	MOSFET 50W × 4
Power supply	13.2V DC (11—16V)
Dimensions (W × H × D)	7″ × 4″ × 6-1/2″ (180 × 100 × 165mm)
Weight	5.5lbs (2.5kg)
Dimensions (PND only) (W × H × D)	5″ × 3″ × 1″ (130 × 82.5 × 24.5mm)
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)
DISPLAY	
Display	4.3″ WQVGA
Resolution	391,680 dots (480 × 272 × 3)
FM TUNER	
Frequency range	87.75 - 107.9 MHz (200 kHz step)
Usable Sensitivity	15 dBf
AM TUNER	
Frequency range	530 — 1,710kHz (10kHz step)
Usable Sensitivity	27dB (1kHz)
CD SECTION	
Frequency response	20 — 20,000Hz ±3dB
Wow & Flutter	Below measurable limit
S/N Ratio	75 dB
Dynamic Range	95 dB
Total Harmonic Distortion	0.008%
DVD SECTION(Audio Part)	
Frequency Response	20 Hz - 20,000 Hz , ± 3dB
Wow & Flutter	Below measurable limit
S/N Ratio	70 dB
Dynamic Range	95 dB
Total Harmonic Distortion	0.008%
USB MEMORY PLAYER SECTION	
USB Interface	1.1
Frequency Response	20 Hz - 20,000 Hz , ± 3 dB
Channel Separation	65dB
S/N Ratio	75 dB
Total Harmonic Distortion	0.008%
EQUALIZER SECTION	
Equalizer	±11db at 80 Hz/±11dB at 700 Hz/ ±11dB at 10 kHz

CD Receivers Feature List

	CD7200 mkII	CD5030	CD1200
CONTROL			
Remote Control	●	●	optional
CD Changer Control	●	●	—
CD, CD-R/RW	●	●	●
USB	●	●	●
WMA	●	●	●
MP3	●	●	●
AAC	—	—	●
SAT Radio-ready	●	●	—
HD Radio-ready	●	●	—
Ready for iPod®	●	●	●
iTune Tagging (HD Radio)	—	●	—
TUNER			
AM/FM	6/18	6/18	6/18
Station Name Input	●	—	—
AUDIO			
Pre Outputs	8V/6ch	5V/6ch	3V/4ch
MOSFET Amplification	—	●	—
Advanced 24-bit ΔΣ DAC	●	—	—
Source Volume Control (SVC)	●	●	—
Circle Surround II	●	—	—
Parametric EQ	Front 3 way 11 band / 4 SP+Subwoofer 7 band	7 band (4 SP+Subwoofer)	—
Graphic EQ	—	—	● (Easy: 3 band)
Time Alignment	●	● (Auto/Easy)	—
Crossover	●	●	—
Bass/Mid/Treble Control	●	—	●
Loudness	● (Manual)	● (Manual)	● (Manual)
Multi-Harmonizer	●	●	—
Simplified Position Selector	—	●	—
Non Fader Level/Phase control	●	●	—
Non Fader Mono/Stereo changeable	●	●	—
Non Fader Pre Outputs	●	●	—
AUX Input	● (RCA + 1 optional)	● (RCA + 1 optional)	●
Mute	●	●	●
GENERAL			
Display	Full Dot VF	Monochrome OEL	LCD
Illumination	6 pattern	Blue/Red	Green/Red
Brightness Control	—	●	—
Dimmer Control	●	●	●
Bluetooth® Wireless Technology	● (Built-in)	● (Built-in)	—
Hands-free call/Audio Streaming	●	●	—
ESN Security	●	●	—
Detachable Front Panel	●	●	●
Face Type	Motorized	Flip type	Fixed
E-iSERV			
Audio Customization	●	—	—
Display Customization	●	—	—

CD Receivers Specifications

14.4V Power Supply		CD7200 mkII	CD5030	CD1200
Max. Power Output		no amplifier section	50W × 4 (MOSFET)	40W × 4
Lineout Output Level/Impedance		8V(0dB)/55Ω	5V(0dB)/55Ω	3V(0dB)/55Ω
Tone Control	Bass/Mid/Treble	±12dB at 80Hz/ ±12dB at 630Hz/ ±12 at 10kHz	—	±12dB at 100Hz/ ±12dB at 680Hz/ ±12dB at 10kHz
	Loudness	+9dB at 100Hz/+6dB at 10kHz		
FM	Frequency Range	USA: 87.75 — 107.9 MHz (200kHz step) Latin America: 87.75 — 107.9 MHz (100kHz step)	USA: 87.75 — 107.9 MHz (200kHz step) Latin America: 87.9 — 108.0 MHz (100kHz step)	USA: 87.75 — 107.9 MHz (200kHz step) Latin America: 87.75 — 107.9 MHz (100kHz step)
	Usable Sensitivity	15dBf		
	Frequency Response	30 — 15,000Hz ±3dB		
	Stereo Separation	38dB (1kHz)		
AM	Frequency Range	USA/Latin America: 530 — 1,710kHz (10kHz step)		
	Usable Sensitivity	22µV		
CD	Frequency Response	20 — 20,000Hz, ±3dB		
	Wow & Flutter	Below measurable limit		
	Channel Separation	85dB	80dB	
	S/N Ratio (A-weighted)	100dB	95dB	90dB
	Dynamic Range	98dB	95dB	90dB
	Total Harmonic Distortion	0.008%		
USB	USB Interface	1.1		
	Frequency Response	20 — 20,000Hz, ±3dB		
	S/N Ratio (A-weighted)	100dB	95dB	90dB
	Total Harmonic Distortion	0.008%		
Weight		1.7kg	1.6kg	1.43kg
Dimensions (W × H × D) at maximum		7″ × 2″ × 7-5/16″ (178 × 50 × 185.6mm)	7″ × 2″ × 7-1/4″ (178 × 50 × 184.5mm)	7″ × 2″ × 7-7/16″ (178 × 50 × 188.1mm)

CD7200 mkII Audio Customize Parameters (using E-iSERV)

Time Alignment	
dB level	0dB~-30dB(1dB step)
Delay time	0.05ms step
Control range	0ms~-10ms
Crossover	
Control range for cutoff frequency	High(HPF) : 63Hz~16kHz Mid (LPF) : 63Hz~16kHz Mid (HPF) : 20Hz~16kHz Low (LPF) : 20Hz~16kHz
Slope	PASS/-6/-12/-18/-24 dB/oct
Crossover points	1Hz step
Parametric EQ	
Level	-10dB~+10dB(0.5dB step)
Bands	11 band(1Hz step)
Q	0.1 step

Bluetooth® Function List

			AVN4430	CD5030	CD7200 mkII
General	Bluetooth® Profile	HFP (Hands Free Profile)	●	●	●
		OPP (Object Push Profile)	●	●	●
		A2DP (Advanced Audio Distribution Profile)	—	●	●
		AVRCP (Audio/Video Remote Control Profile)	—	●	●
		HSP (Headset Profile)	●	—	—
	Bluetooth® Antenna		● (Built in)	● (Built in)	● (Built in)
	Microphone		● (Built in)	● (Rear Connection)	● (Built in)
	Auto Connection		●	●	●
	Future Upgrades		●	●	●
Hands Free	Outgoing functions	Dial tone	●	●	●
		Outgoing calls memory	●	●	●
		Incoming calls memory	●	●	●
		Preset dial calls	●	●	●
		Phonebook	●	●	●
		Disconnection	●	●	●
	Incoming functions	Auto answering	●	●	●
		Call reject	●	●	●
	Call transfer (Mobile phone ⇄ vehicle)		●	●	●
	Phonebook transfer		●	●	●
	Numbers of registered handsets		5	5	5
Audio Streaming	Max. number of connectable devices		—	1	1
	Connection indicator		—	●	●
	Play		—	●	●
	Pause		—	●	●
	TRACK UP/DOWN		—	●	●
	FAST UP/DOWN		—	●	●

Compatibility

	XM Radio	SIRIUS Radio	HD Radio	Full iPod Control	Bluetooth® Hands Free	Bluetooth® Audio Streaming	AUX Input	USB Connection
AVN4430	● (Audiovox)	● (ECL-SC1)	—	● (iPC-409)	● (Built-in)		● (AUX105)	● (Front)
CD7200mkII	● (Audiovox)	● (ECL-SC1)	● (HDR109/HDR105)	● (iPC-106)	● (Built-in)	● (Built-in)	● (Built-in+AUX105)	● (Fly lead)
CD5030	● (Audiovox)	● (ECL-SC1)	● (HDR109/HDR105)	● (iPC-109)	● (Built-in)	● (Built-in)	● (Built-in+AUX105)	● (Fly lead)
CD1200	—	—	—	● (iPC-008)	—	—	● (Built-in)	● (Front)

* All functions are not available.

Amplifier Specifications

14.4V Power Supply		ZA1200	XA4200	XA1200	EA4200
Channel		1	4/3/2	1	4/3/2
Digital/Analog		Digital (ICE-power)	Digital (ICE-power)	Digital (ICE-power)	Digital
Power Output (max.) 10% THD 2Ω		1200W	200W × 4	600W	80W × 4
Power Output 1%THD	2Ω	1000W	175W × 4	500W	70W × 4
	4Ω	1000W	100W × 4	500W	60W × 4
	4Ω Sub Chnl.	1000W	—	500W	—
THD@Rated Power	4Ω Bridged	—	400W × 2	—	150W × 2
	@2Ω	—	—	—	—
	@4Ω	—	0.05%	0.05%	0.1% (at 55W × 4)
	@4Ω Sub Chnl.	0.25%	—	0.25%	—
S/N Ratio*, 1W out		>80dB	>90dB	>90dB	>80dB
Frequency Response, 1W out		20 — 200Hz	20 — 20kHz	20 — 200Hz	20 — 20kHz
Amp Crossovers	Hi-Pass 18dB/oct.	N/A	32Hz — 500Hz	N/A	32Hz — 500Hz (12dB/oct)
	Lo-Pass 18dB/oct.	32Hz — 200Hz	45Hz — 500Hz	45Hz — 200Hz	32Hz — 500Hz (12dB/oct)
	Subsonic 18dB/oct.	22Hz	22Hz	22Hz	18Hz
Pre-Amp Output	Lo-Pass 18dB/oct.	N/A	Pass Through	N/A	Pass Through
Dimensions (W × H × D)		12.2″ × 2.36″ × 10.1″ (310mm × 60mm × 256mm)	12.2″ × 2.36″ × 10.1″ (310mm × 60mm × 256mm)	10.25″ × 2.36″ × 10.1″ (260mm × 60mm × 256mm)	7.5″ × 2.36″ × 10.1″ (190mm × 60mm × 256mm)

Speaker Specifications

	SW8210	SW8010
Size	12″	10″
Fs	19Hz	20Hz
Qts	0.43	0.37
DCR	4Ω	4Ω
Vas	1.5 cu ft	1.25 cu ft
Xmax (one way)	1.5″	1.5″
RMS Power Handling	750W	700W

	SW6210	SW6010	SW4210	SW4010
Size	12″	10″	12″	10″
RMS Power Handling	500W	450W	250W	200W
Max Power Handling	1500W	1300W	750W	600W
Fs	20.5Hz	22 Hz	22 Hz	27 Hz
Qts	0.41	0.45	0.45	0.55
DCR	4Ω+4Ω	4Ω+4Ω	4Ω+4Ω	4Ω+4Ω
Vas	2.5 cu ft	1.25 cu ft	5.3 cu ft	2.2 cu ft
Xmax (one way)	12mm	12mm	12mm	12mm
Dual voice coil	●	●	●	●
Sensitivity	90dB	88dB	88dB	86dB
Cone Material	Aluminum	Aluminum	Paper	Paper
Dome Material	Aluminum	Aluminum	Polypropelene	Polypropelene
Surround Material	Santoprene	Santoprene	Santoprene	Santoprene
Voice Coil Former	Aluminum	Aluminum	Aluminum	Aluminum
Woofer Magnet Material	Ferrite	Ferrite	Ferrite	Ferrite

Speaker Specifications

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

	SC8365	SC8355	SC6900	SC6500
Woofer Size	6-1/2˝	5-1/4˝	6 × 9˝	6-1/2˝
Midrange Size	1-1/2˝	1-1/2˝	—	—
Tweeter Size	3/4˝	3/4˝	1˝	1˝
RMS Power Handling	100W	85W	80W	75W
Max Power Handling	300W	250W	240W	225W
Frequency Response	30 — 25,000Hz	35 — 25,000Hz	65 — 25,000Hz	84 — 25,000Hz
Sensitivity	88dB	87dB	86dB	84dB
Cone Material	Solid Spun Aluminum	Solid Spun Aluminum	Glass fiber and Kevlar	Glass fiber and PMI
Surround Material	Santoprene	Santoprene	Rubber	Rubber
Voice Coil Former	Aluminum	Aluminum	Aluminum	Aluminum
Midrange Dome	Aluminum	Aluminum	—	—
Tweeter Dome	Aluminum	Aluminum	Soft silk	Soft silk
Tweeter Magnet Material	Neodymium	Neodymium	Neodymium	Neodymium
Woofer Magnet Material	Ferrite	Ferrite	Ferrite	Ferrite
Mounting Depth	2-7/8˝	2-5/8˝	2-3/8˝	2-1/4˝

	SP6910	SP6510	SP5710	SP5010
Woofer Size	6 × 9˝ (woofer)	6 -1/2˝ (woofer)	5 × 7˝ (woofer)	5 -1/4˝ (woofer)
Tweeter Size	1˝ (Tweeter)	1˝ (Tweeter)	1˝ (Tweeter)	1˝ (Tweeter)
RMS Power Handling	90W	60W	75W	50W
Max Power Handling	270W	180W	225W	150W
Frequency Response	40Hz — 25kHz	65Hz — 25kHz	84Hz — 25kHz	80Hz — 25kHz
Sensitivity	88dB	87dB	84dB	85dB
Cone Material	Carbon fiber with cotton backed cone	Carbon fiber with cotton backed cone	Carbon fiber with cotton backed cone	Carbon fiber with cotton backed cone
Surround Material	Rubber	Rubber	Rubber	Rubber
Voice Coil Former	Aluminum	TIL	TIL	TIL
Midrange Dome	—	—	—	—
Tweeter Dome	Soft silk	Soft silk	Soft silk	Soft silk
Tweeter Magnet Material	Neodymium	Neodymium	Neodymium	Neodymium
Woofer Magnet Material	Ferrite	Ferrite	Ferrite	Ferrite
Mounting Depth	3-1/2˝	2-1/4˝	2-3/8˝	2-1/4˝

	SE6900	SE6800	SE6500	SE5700	SE5000	SE4600	SE4000
Woofer Size	6 × 9˝ 4-Way	6 × 8˝ 3-Way	6-1/2˝ 3-Way	5 × 7˝ 3-Way	5-1/4˝ 3-Way	4 × 6˝ 2-Way	4˝ 2-Way
Midrange Size	1-1/2˝	—	—	—	—	—	—
Tweeter Size	1˝	1˝	1˝	1˝	1˝	—	—
Super tweeter Size	3/4˝	3/4˝	3/4˝	3/4˝	3/4˝	3/4˝	3/4˝
RMS Power Handling	75W	40W	40W	40W	30W	30w	25w
Max Power Handling	220W	120W	120W	120W	90W	90w	75w
Frequency Response	40Hz — 25kHz	40Hz — 25kHz	55Hz — 25kHz	60Hz — 25kHz	60Hz — 25kHz	60Hz — 25kHz	90Hz — 25kHz
Sensitivity	92dB	91dB	90dB	90dB	90dB	88dB	88dB
Cone Material	Hybrid Mica PP cone	Hybrid Mica PP cone	Hybrid Mica PP cone	Hybrid Mica PP cone	Hybrid Mica PP cone	Hybrid Mica PP cone	Hybrid Mica PP cone
Surround Material	Butyl Rubber	Butyl Rubber	Butyl Rubber	Butyl Rubber	Butyl Rubber	Butyl Rubber	Butyl Rubber
Voice Coil Former	Kapton	Kapton	Kapton	Kapton	Kapton	Kapton	Kapton
Midrange Dome	Mylar	—	—	—	—	—	—
Super tweeter	Mylar	Mylar	Mylar	Mylar	Mylar	—	—
Tweeter Dome	P.E.I.	P.E.I.	P.E.I.	P.E.I.	P.E.I.	—	—
Tweeter Magnet Material	Neodymium	Neodymium	Neodymium	Neodymium	Neodymium	Neodymium	Neodymium
Woofer Magnet Material	Ferrite	Ferrite	Ferrite	Ferrite	Ferrite	Ferrite	Ferrite
Mounting Depth	3-1/16˝	2-1/4˝	1-7/8˝	2-1/8˝	1-7/8˝	1-3/4˝	1-5/8˝

	SM6500
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	Polycarbonite Plastic (UV Solar-Protected)
Woofer Magnet	Ferrite
Tweeter Magnet	Neodymium
Mounting Depth	3-1/2˝

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 installatiion 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.
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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
- AVN6620 map data compiled as of December 2006.
- 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 Receivers-specific
- Use map data (Area Shot) while being aware of actual road conditions and obeying traffic rules.
- 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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