

Specifications

CEA-2006 Power Ratings

- CEA-2006 Power Rating: 4 Ω @14.4V $\leq$ 1%THD+N, S/N 80dBA (ref.1W into 4 Ω), 18W x 4

Max Power Output Ratings

- Max Power Output: 50W x 4

FM Tuner

- Tuning Range: 87.7-107.9 MHz
- Mono Usable Sensitivity: 0.8 μ V / 9.3 dBf
- 50dB Quieting Sensitivity: 1.3 μ V / 13.5 dBf
- Alternate Channel Selectivity: 80.0 dB
- Signal-to-Noise (S/N) Ratio: 65 dB
- Stereo Separation: 35 dB
- Capture Ratio: 2.0 dB

AM Tuner

- Tuning Range: 530-1, 710kHz
- Usable Sensitivity (IEC Standard): 22.5 μ V / 27.0 dBf

Navigation

- Installation Angle: Roll: $\pm$ 10 degrees / Pitch: $\pm$ 30 degrees / Yaw: $\pm$ 10 degrees
- CPU: SiRF Titan
- GPS: Parallel 12 channels Receiver
- Internal Storage: Built-in flash memory with Pre-loaded Maps of US, Canada, Puerto Rico, and the Virgin Islands

Display

- Screen Size: 6.1" Screen
- LCD Type: Transparent Type TN LCD
- Operation System: TFT Active Matrix
- Number of Picture Elements: 1,152,000 pcs. (800 x 3 x 480)
- Effective Number of Picture Elements: 99.99%
- Illumination System: LED

Bluetooth®

- Bluetooth Version: BLUETOOTH V2.1+EDR
- Output Power: +4dBm Max.(Power class 2)
- HFP: HFP (Hands Free Profile)
- HSP: HSP (Head Set Profile)
- A2DP: A2DP (Advanced Audio Distribution Profile)

- AVRC: AVRC (Audio/Video Remote Control Profile)
- OPP: OPP (Object Push Profile)
- PBAP: PBAP (Phone Book Access Profile)

Disc Player

- Frequency Response: 5-20k $\pm$ 1 dB
- Channel Separation (at 1kHz): 85dB
- Dynamic Range (at 1kHz): 95dB
- Total Harmonic Distortion (at 1kHz): 0.008%
- Wow & Flutter (%WRMS): Below Measurable Limits
- Horizontal Resolution: 500 Lines or Greater
- Video Output Level: 1Vp-p (75 Ω)
- Signal-to-Noise Ratio (video): DVD: 60dB
- Signal-to-Noise Ratio: 105 dB

Connection for USB

- USB Requirements: USB 1.1/2.0
- Max. Power Consumption: 1000 mA
- USB Class: USB(Play From Device)/USB(Mass Storage Class)
- File System: FAT 12/16/32
- MP3 Decoding: MPEG-1/2 AUDIO Layer-3
- WMA Decoding: Windows Media™ Audio
- AAC Decoding: AAC-LC format"/m4a" file
- Number of Channels: 2-Channel (Stereo)
- Frequency Response: 5-20 kHz $\pm$ 1dB (Frequency Response may differ depending on the encoder software/bit rate)
- Total Harmonic Distortion (at 1kHz): 0.008%
- Dynamic Range (at 1kHz): 95 dB
- Signal-to-Noise Ratio: 105dB
- Channel Separation (at 1kHz): 85 dB

Sound Tuning

- Subwoofer Level Adjustment: 0 to 15 steps
- High Pass Filter: 20~200(Hz), 0/-6/-12/-18/-24(dB/oct), -12~0(dB)
- Low Pass Filter:
- MediaXpander Modes: FM/SAT/DVD/CDDA/CMPM/AUX/HD Radio (Level 1, 2, 3, Off)
- Equalizer: Parametric EQ: 9 Band (20Hz~20kHz, 1/3 oct. Steps), Adjustable level $\pm$ 9 dB
- Time Correction: 0.0 - 336.6cm (Front L/R), 0.0 - 9.9ms (Rear L/R), 3.4cm 0.1ms step (Sub.w L/R)
- Crossover Frequency: HPF/LPF

Dimensions

- Din Size: 2
- Chassis Size (W x H x D) mm: 178mm x 100mm x 165mm

- Chassis Size (W x H x D) in: 7" x 3-15/16" x 6-1/2"
- Nose Piece Size (W x H x D) mm: TBD
- Nose Piece Size (W x H x D) in: TBD

General

- Power Requirement: Power Requirement: 14.4 (11-16) V.DC
- Pre Output Voltage (Before Clipping): 4V
- Power Consumption: Max: 15A
- Operating Temperature (°C/ °F): -4°F to +140°F (-20°C to + 60°C)
- Maximum Mounting Angle: 30° from Horizontal

Recommended Accessories

- HCE-C210RD: Direct Connection Multi-view Rear Camera
- HCE-C212F: Multi-view Front Camera
- HCE-C117D: Direct Connection Rearview Camera
- RUX-C800: PXA-H800 Commander
- HCE-C300R: Active view Camera System
- PXA-H800: System Integration Audio Processor
- KCU-461iV: iPod USB Connecting Cable

Map & Database

- Points Of Interest: 6 Million
- Pre-Loaded Map Database: US, Canada, PR, Virgin Islands
- Map Icons: User can select to display up to 8 POI icons on map
- Map Views: North up, heading up, 3D
- Map Database Update (Method): SD Card
- Database Smart Key Filtering: Yes
- Street Name Voice Guidance: Yes
- Auto-Sort Nearest Destination: Yes
- Arrival Time: Yes
- Voice Prompts: Yes
- Route Guidance Setup: Yes

Tuner

- Memory Presets: Preset Stations (FM:12/AM:6)
- Memory: Auto Memory
- Seek Mode: Local/DX Seek Selection

Bluetooth®

- Bluetooth Module Built-In: Bluetooth Module Built-In
- Hands Free Calling: HFP (Hands-Free Profile) Compatible
- Music Streaming: A2DP (Advanced Audio Distribution Profile) Compatible

- Music Streaming Control: AVRCP (Audio/Video Remote Control Profile) Ver.1.4 Compatible
- Connection: SSP (Secure Simple Pairing) Supported
- Phone Book: Phone Book Synchronization
- Phone Book Search: Phone Book Search Function
- Shortcut Dialing: 4 Preset Memory
- Multiple Phone Number Registration: 4 Phone Number Registration Possibility
- Redial Function: Redialing a Number in Outgoing History
- Call History: Dialed Call, Received Call, Missed Call Display
- Speech Volume Level Adjustment: Outgoing, Incoming and Ring Tone Volume Adjustment
- Bluetooth Audio Sound Adjustment: MX Parameter for A2DP
- Phone Battery Level Indicator: Phone Battery Level Indication
- Phone Signal Strength Indicator: Phone Signal Strength Indication
- Firmware Update: Firmware Updatable
- Microphone: Microphone Included

Connection for iPod®

- Made for iPod/iPhone: Made for iPod/iPhone
- Compatibility for iPod®/iPhone®: Made for iPod touch 4th/3rd/2nd/1st Gen., iPod nano 6th/5th/4th/3rd/2nd/1st Gen., iPod classic 160GB/120GB/80GB, iPod with video, iPhone 4S, iPhone 4, iPhone 3GS, iPhone 3G and iPhone
- Connection Type: USB Connection
- Connection: KCU-461iV (sold separately) Required
- Works with Pandora® Internet Radio: Works with Pandora® Internet Radio
- Music & Video Playback Compatibility: Music & Video Playback Compatible
- Artwork Display: Artwork Display
- Available Selections: Playlist, Artist, Album, Song, Podcast, Genre, Composer, Audiobook
- Alphabet Search: Alphabet Search Function
- Direct Up/Dn: Playlist, Artist, Album, Podcast, Genre, Composer Up/Down
- M.I.X. (Shuffle) Capability: Song, Albums, All
- Repeat: Repeat Song,
- Battery Charging: Battery Charging

Connection for USB

- USB Connection: USB Extension Cable Included
- Music File Playback: MP3/AAC/WMA Files Playback
- Video File Playback: DivX Files Playback
- USB Class: Mass Storage Class
- File/Folder Name Search: File/Folder Name Search
- Tag Info Search: Tag Information Search
- M.I.X. Random Play: M.I.X. Random Play
- Repeat: Repeat File/Folder

Satellite Radio

- SiriusXm Ready: SiriusXm Ready (SVX-200 Required)
- Connection: Simple Plug'N Play Compatible
- Preset Memory: 18 Preset Memory
- My Game / My Music Alert: My Game / My Music Alert Compatible
- Instant Replay: Instant Replay Compatible
- iTunes® Tagging: iTunes® Tagging Compatible

Disc Player

- Disc Type: DVD/CD Player
- Disc Playback Type: DVD-Video, DVD±R/RW, CDDA, CD-R/RW
- Music Playback: DVD-Video, CDDA, MP3/AAC/WMA, Divx Playback
- DVD Direct Menu Control: DVD Direct Menu Touch Control
- CD Text Display: CD Text Display
- CD Text Search: CD Text Search
- M.I.X. Random Play: One (Folder) / All (Random Play) Random (CD Only)
- Repeat: Repeat
- DAC: 24 Bit DAC

Sound Tuning

- Subwoofer Level: Subwoofer Level Adjustment
- Subwoofer Phase Select: Subwoofer Phase Select (0° or 180°)
- Equalizer: Flat, Pops, Rock, News, Jazz, Electrical Dance, Hip Hop, Easy Listening, Country, Classical
- 9-band Parametric Equalizer: 9-band Parametric Equalizer
- MediaXpander: MediaXpander
- Customized Sound Setting by Car Type: iPersonalize Sound Setting Function
- Time Correction: 6-channel Digital Time Correction
- Crossover: Digital Crossover Function
- Application Volume Level Setting: Application Volume Level Setting
- Sound Setting Data Download: Sound Setting Data Download

General

- Power Output: 50W x 4 High Power Amplifier
- Display: 6.1" WVGA High Resolution Display
- Display Backlighting System: White LED Backlighting System
- Display Setting: 50:50 Split Screen Compatible
- Display Color Selection: 5 Background Color (Blue/Green/Red/Amber/Black) Selectable
- Camera Connection: Alpine Direct Camera Connection
- Camera Guide Line Adjustment: Camera Guide Line Adjustment
- AUX Input: 1 A/V Input
- PreOut: 3 PreOuts (2V, Front/Rear/Subwoofer)
- Steering Wheel Remote Control Ready: Steering Wheel Remote Control Ready
- Live Contrast Adjustment: Live Contrast Adjustment

- Clock: Clock
- DIN Trim Plate: Detachable Trim Plate
- Auto Dimmer: Auto Dimmer
- Power Antenna Lead: Power Antenna Output
- Remote Turn-On: Remote Turn-On Output
- Audio Interrupt: Audio Interrupt Input
- Remote Control Ready: Remote Control Ready
- Mute: Mute Function
- Firmware Updatable: Firmware Updatable