Please register your product at www.alpine-usa.com/registration for a chance to win prizes.

Enregistrez-vous sur www.alpine-usa.com/registration et tentez de remporter des prix.

Registre su producto en la dirección www.alpine-usa.com/registration para optar a excelentes premios.
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IMPORTANT
Please record the serial number of your unit in the space provided below and keep it as a permanent record.

SERIAL NUMBER: ___________________________________________________________________________________

INSTALLATION DATE: ______________________________________________________________________________

INSTALLATION TECHNICIAN: _______________________________________________________________________

PLACE OF PURCHASE: ______________________________________________________________________________

For details on all functions, refer to the Owner’s Manual stored in the supplied CD-ROM. (As it is data CD, the CD cannot be used for playing back music and images on the player.) If required, an ALPINE dealer will readily provide you with a print out of the Owner’s Manual contained in the CD-ROM.
WARNING

This symbol means important instructions. Failure to heed them can result in serious injury or death.

DO NOT INSTALL IN LOCATIONS WHICH MIGHT HINDER VEHICLE OPERATION, SUCH AS THE STEERING WHEEL OR SHIFT LEVER.
Doing so may obstruct forward vision or hamper movement etc., and results in serious accident.

DO NOT OPERATE ANY FUNCTION THAT TAKES YOUR ATTENTION AWAY FROM SAFELY DRIVING YOUR VEHICLE.
Any function that requires your prolonged attention should only be performed after coming to a complete stop. Always stop the vehicle in a safe location before performing these functions. Failure to do so may result in an accident.

KEEP SMALL OBJECTS SUCH AS SCREWS OUT OF THE REACH OF CHILDREN.
Swallowing them may result in serious injury. If swallowed, consult a physician immediately.

KEEP THE VOLUME AT A LEVEL WHERE YOU CAN STILL HEAR OUTSIDE NOISES WHILE DRIVING.
Excessive volume levels that obscure sounds such as emergency vehicle sirens or road warning signals (train crossings, etc.) can be dangerous and may result in an accident. LISTENING AT LOUD VOLUME LEVELS IN A CAR MAY ALSO CAUSE HEARING DAMAGE.

DO NOT DISASSEMBLE OR ALTER.
Doing so may result in an accident, fire or electric shock.

USE THE CORRECT AMPERE RATING WHEN REPLACING FUSES.
Failure to do so may result in fire or electric shock.

DO NOT USE BOLTS OR NUTS IN THE BRAKE OR STEERING SYSTEMS TO MAKE GROUND CONNECTIONS.
Using such parts could disable control of the safety-related system), or tanks should NEVER be used for installations and may result in an accident.

DO NOT INSTALL IN LOCATIONS WITH HIGH MOISTURE OR DUST.
Avoid installing the unit in locations with high incidence of moisture or dust. Moisture or dust that penetrates into this unit may result in product failure.

DO NOT DAMAGE PIPE OR WIRING WHEN DRILLING HOLES.
逆势 so as not to contact, damage or obstruct pipes, fuel lines, tanks or electrical wiring. Failure to take such precautions may result in fire.

DO NOT BLOCK VENTS OR RADIATOR PANELS.
Arrange wiring and cables in compliance with the manual to prevent obstructions when driving. Cables or wiring that obstruct or hang up on places such as the steering wheel, gear lever, brake pedals, etc. can be extremely hazardous.

USE THE CORRECT AMPERE RATING WHEN REPLACING FUSES.
Failure to do so may cause personal injury or damage to the product. Return it to your authorized Alpine dealer or the nearest Alpine Service Center for repairing.

HAVE THE WIRING AND INSTALLATION DONE BY EXPERTS.
The wiring and installation of this unit requires special technical skill and experience. To ensure safety, always contact the dealer where you purchased this product to have the work done.

USE SPECIFIED ACCESSORY PARTS AND INSTALL THEM SECURELY.
Be sure to use only the specified accessory parts. Use of other than designated parts may damage this unit internally, or may not securely install the unit in place. This may cause parts to become loose resulting in hazards or product failure.

ARRANGE THE WIRING SO IT IS NOT CRIMPED OR PINCHED BY A SHARP METAL EDGE.
Route the cables and wiring away from moving parts (like the seat rails) or sharp or pointed edges. This will prevent crimping and damage to the wiring. If wiring passes through a hole in metal, use a rubber grommet to prevent the wire’s insulation from being cut by the metal edge of the hole.

HALT USE IMMEDIATELY IF A PROBLEM APPEARS.
Failure to do so may cause personal injury or damage to the product.

USE ONLY IN CARS WITH A 12 VOLT NEGATIVE GROUND.
(Check with your dealer if you are not sure.) Failure to do so may result in fire, etc.

DO NOT SPLICE INTO ELECTRICAL CABLES.
Never cut away cable insulation to supply power to other equipment. Doing so will exceed the current carrying capacity of the wire and result in fire or electric shock.

DO NOT DAMAGED PIPE OR WIRING WHEN DRILLING HOLES.
When drilling holes in the chassis for installation, take precautions so as not to contact, damage or obstruct pipes, fuel lines, tanks or electrical wiring. Failure to take such precautions may result in fire.

DO NOT BLOCK VENTS OR RADIATOR PANELS.
Doing so may cause heat to build up inside and may result in fire.

MAKE THE CORRECT CONNECTIONS.
Failure to make the proper connections may result in fire or product damage.

BEFORE WIRING, DISCONNECT THE CABLE FROM THE NEGATIVE BATTERY TERMINAL.
Failure to do so may result in electric shock or injury due to electrical shorts.

DO NOT USE BOLTS OR NUTS IN THE BRAKE OR STEERING SYSTEMS TO MAKE GROUND CONNECTIONS.
Bolts or nuts used for the brake or steering systems (or any other safety-related system), or tanks should NEVER be used for installations or ground connections. Using such parts could disable control of the vehicle and cause fire, etc.

WARNING

This symbol means important instructions. Failure to heed them can result in injury or material property damage.
Getting Started

Touch operation

You can operate the system by using the touch panel on the screen.

- **Common onscreen buttons**
  - (Previous Screen): Returns to the previous screen. Depending on the function, this button may cancel the operations performed on the screen.
  - (Close Window): Closes the window.

Location of Controls

1. **Home/ button**
   - Touch the Home button to call up Favorites.
   - Press the Home button to call up the Home Screen.
   - Press and hold for at least 5 seconds to turn the power off.

2. **Remote Sensor**
   - Point the remote control transmitter towards the remote sensor within a range of 2 meters.

3. **Via button**
   - Press to adjust the volume.

4. **RESET switch**
   - The system of this unit is reset.

5. **(Media View) button**
   - When using the Navigation system:
     - Pressing toggles between the Navigation screen and Audio/Visual screen.
   - When not using the Navigation system:
     - If appears on the screen, pressing the button will close the screen in the same way as touching .

6. **Media Control button 1/2/3**
   - This action varies according to the Audio/Visual application. (Track Up/Down, PLAY/PAUSE, Fast reverse/Fast forward, etc)

7. **MUTE button**
   - Activating this function will instantly lower the volume level by 20 dB.

Turning Power On or Off

1. **Turn the ignition key to the ACC or ON position.**
   - The system is turned on.

2. **Press and hold the Home/ button for at least 5 seconds to turn the power off.**
You can easily switch to the application of your choice from the Home Screen or Favorites. The Home Screen displays icons for applications usable with this unit. Favorites is a shortcut function that displays up to 4 icons on the screen you are using. The icon layout is customizable for your convenience.

**Home Screen and Favorites**

You can:
- Touch the Home button.
- Press the Home button.
- Touch an application icon to switch to that application.
- Touch the Favorites button.

**Using the Media Control buttons**

For operations like moving up or down between songs, in addition to using the operation buttons displayed on the screen, you can also use the Media Control buttons on the unit itself. This allows you to press a Media Control button to select a song even if the main screen for the media is not being displayed.

The operation of the Media Control buttons may change depending on the media you are using. A guide will display on the screen to show which switch controls what function.


Using the Media View button

You can switch between the Navigation screen and the main screen for the current media source with just one touch.

<table>
<thead>
<tr>
<th>Setting the Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Press the Home button.</td>
</tr>
<tr>
<td>2 Touch [Setup].</td>
</tr>
<tr>
<td>3 Touch [General Setup].</td>
</tr>
<tr>
<td>4 Touch [Date/Time].</td>
</tr>
<tr>
<td>5 Touch [Clock Adjust].</td>
</tr>
<tr>
<td>6 Touch [&lt;] or [&gt;] of &quot;Year,&quot; &quot;Month,&quot; &quot;Day,&quot; &quot;Hour&quot; and &quot;Minute&quot; to adjust the clock.</td>
</tr>
<tr>
<td>7 Touch [X].</td>
</tr>
</tbody>
</table>
HD Radio™/RBDS Operation

Preset No. Indicator
Frequency display
Decreases frequency
Preset button
Displays the preset stations with a short touch.
Touch for at least 2 seconds to memorise the current station as a preset station.
Displays the Multicast channel list selection screen
The screen changes to Simple mode or Info mode
Finds beginning of previous Multicast channel
Finds beginning of next Multicast channel
Memorises stations automatically

Band display
HD Radio signal reception indicator
Multicast/Tag/Digital Seek indicator
HD Radio information display
 Increases frequency
Switches band
Displays the Audio Setup screen
Switches to analog reception
Increases frequency
Changes tuning mode
Decreases frequency
Tag
When a desired song is heard on an HD Radio station, touch the [TAG] icon to save its tag information.

Searc
For exam
1 To
2 To
3 To

Alpine ICS-X7HD 68-21057Z35-A (EN)
An iPod/iPhone can be connected to this unit by using the cable (KCU-461iV) (sold separately). You can connect a video-capable iPod to enjoy not only Music but also Video files.

### Audio mode

- **Displays the search screen**
- **Current song no./Total song no.**
- **iPod/iPhone information display**
- **Finds the beginning of the next file/Fast-forwards when touched for at least 2 seconds**
- **Random Play (Shuffle)**
- **Displays the Audio Setup screen**
- **Finds the beginning of the current file/Finds a previous file within one second after playback starts/Fast-reverses when touched for at least 2 seconds**
- **Pause and Playback**
- **Finds the beginning of the next file/Fast-forwards when touched for at least 2 seconds**
- **Repeat Playback**

#### Searching for a Music File

For example: Searching by Artist name

4. Touch the desired artist’s name.

   The Albums search screen of the selected artist is displayed. Touching (►) of the desired artist will play back all songs of the selected artist.

5. Touch the desired album’s name.

   All songs of the selected album are displayed. Touching (►) of the desired album will play back all songs of the selected album.

6. Touch the desired song’s name.

   The selected song is played back.

   - Touching (►) of “ALL” will play back all songs in the list.
This unit can connect to USB memory device.
You can play back music files (MP3/WMA/AAC) and video files (DivX®) stored in a USB memory device on the internal player of this system.

**Audio mode**

- Displays the search screen
- Current file no./Total file no.
- Finds the beginning of the current file/Finds a previous file within one second after playback starts/Fast-reverses when touched for at least 2 seconds
- Search screen display
- The screen changes to Simple mode or Info mode
- Finds beginning of previous folder (Playlist/Artist/Album/Genre/Composer)
- Finds beginning of next folder (Playlist/Artist/Album/Genre/Composer)
- Random Play
- Random Play (ALL)

**Video mode**

- Current file no./Total file no.
- Finds the beginning of the current file/Finds a previous file within one second after playback starts/Fast-reverses when touched for at least 2 seconds
- Search screen display
- The screen changes to Simple mode or Info mode
- Finds beginning of previous folder
- Finds beginning of next folder
- Switches Audio Tracks
- Switches Subtitles
- DivX® information display
- Finds the beginning of next file/Fast-forwards when touched for at least 2 seconds
- Stop Playback
- Repeat Playback
- Displays the Audio Setup screen
- Displays the Display Setup screen
- Finds the beginning of next file/Fast-forwards when touched for at least 2 seconds
- Displays the Audio Setup screen
- Displays the Display Setup screen
- Finds the beginning of next file/Fast-forwards when touched for at least 2 seconds
- Displays the Audio Setup screen
- Displays the Display Setup screen
- Finds the beginning of the current file/Finds a previous file within one second after playback starts/Fast-reverses when touched for at least 2 seconds
Hands-Free Phone Control

Hands-free calls are possible when using an HFP (Hands-Free Profile) compatible mobile phone with the ICS-X7HD.

How to connect to a BLUETOOTH compatible device (Pairing)

1. Press the Home button.
2. Touch [Setup].
3. Touch [General Setup].
4. Touch [▲] or [▼] of “BLUETOOTH” to set to “On.”
5. Touch [BLUETOOTH].
6. Touch [Set BLUETOOTH Device].
7. Touch [Search] of “No Device.”
8. Touch [Audio], [HFT] or [Both] of the device you want to connect from the list.
9. When the device registration is complete, a message appears and the device returns to normal mode.

- The BLUETOOTH registration process differs depending on the device version and SSP (Simple Secure Pairing). If a 4 or 6 character Passcode appears on this device, enter the Passcode using the BLUETOOTH compatible device. If a 6 character Passkey appears on this device, make sure the same passkey is displayed on the BLUETOOTH compatible device and touch “Yes.”

Answering a Call

1. An incoming call triggers the ringtone and an incoming call display.
2. Touch ( ) or press Media Control button 1.
   The call starts.

Hanging up the Telephone

1. Touch ( ) or press Media Control button 3.
   The call finishes.
Pandora® Internet Radio Operation (Optional)

Display example for iPhone Pandora Radio screen

- Artwork display
- "Thumbs Up" feedback
- Elapsed time
- "Thumbs Down" feedback
- Pause and Playback
- "Like" feedback
- "Dislike" feedback
- Search screen display
- "Thumbs Up" feedback
- Simple mode or Info mode
- Creating a new "Track" station
- Creating a new "Artist" station
- Displays keypad for Freeword search
- You can enter a keyword and search for Artist/Song.
- Rating/QuickMix/Bookmark icon indicator
- PANDORA Information display
- Bookmarking a Desired Track or Artist
  The currently playing song or artist can be bookmarked and saved to your Pandora account.
- Displays the Audio Setup screen
- "Thumbs Down" feedback
- Pause and Playback
- "Thumbs Up" feedback

Aha offer experience
If the Aha X7HD.
Current car content no
Artwork di
Finds the b
the current
Finds a pre content
Search scr
The screen
Simple mo
"Like" feed
"Dislike" fe
15 Sec rew
The current content jurr
15 seconds.

Touch
Aha Operation (Optional)

Aha offers you quick, personalized access to content you really want, and it's their mission to ensure your listening experience is gratifying every day.

If the Aha application is installed in an iPhone, you can display and operate the Aha display screen with the ICS-X7HD.

- Current content no./Total content no.
- Artwork display
- Finds the beginning of the current content/
  Finds a previous content
- Station Logo display
- Aha information display
- Partner Logo display
- Finds the beginning of the next content
- 30 Sec skip
  The currently playing content jumps ahead 30 seconds.
- Displays the Audio Setup screen
- Recall the Previous Station Function
  You can recall a previously selected station. You can switch between the currently selected and previously selected station.
- Finds the beginning of the next content
- Pause and Playback
- Finds the beginning of the current content/Finds a previous content

• Touch [＜ (Back)] on the playback screen to return to the preset station selection screen.
MirrorLink™ Operation (Optional)

MirrorLink™ is a standard for connecting devices to provide a connection between an ICS-X7HD and a mobile phone. Using MirrorLink, you can display the mobile phone screen and allow you to operate your mobile phone applications via this unit.

When using MirrorLink, we recommend that you connect your mobile phone via both USB and BLUETOOTH.

1. Press the Home button.

2. Touch [Mirror Mode], [Car Mode], [Navigation] or [Music].
   - The screen for the selected mode is displayed.
   - After connecting to a mobile phone that is compatible with this unit, application icons will appear on the Home screen.

3. Press the Media Control button to operate the unit.
   - The functions of the Media Control button differ, depending on the mode.
   - Operable modes on this unit may differ from operations on your mobile phone, depending on the connected mobile phone.
   - In Navigation mode, you can operate the system by using the touch panel only.
Installation

- When making connections to the vehicle's electrical system, be aware of the factory installed components (e.g. on-board computer). Do not tap into these leads to provide power for this unit. When connecting the ICS-X7HD to the fuse box, make sure the fuse for the intended circuit of the ICS-X7HD has the appropriate amperage. Failure to do so may result in damage to the unit and/or the vehicle. When in doubt, consult your Alpine dealer.
- The Display must be completely retracted in the casing when installing. If it is not, problems may occur.

1. Install at an angle between horizontal and 30°. Note that installing at an angle outside of this range will result in a loss of performance and possibly damage.

2. Mounting the Microphone.
   For safe use, make sure of the following:
   - location is stable and firm.
   - driver's view and operations are not obstructed.
   - microphone is located where the driver's voice can be easily picked up (on the sun visor, etc.).
   When you speak into the microphone, you should not have to change your driving posture. This may cause a distraction, taking your attention away from safely driving your vehicle. Carefully consider direction and distance while mounting the microphone. Confirm that the driver's voice can be easily picked up at the selected location.

3. Remove the mounting sleeve from the main unit.

   Slide the unit into the mounting sleeve and secure it.

   *1 If the installed mounting sleeve is loose in the dashboard, the pressure plates may be bent slightly to remedy the problem.
   *2 The supplied face plate may be mounted.
4. Reinforce the head unit with the metal mounting strap (not supplied). Secure the ground lead of the unit to a clean metal spot using a screw (*1) already attached to the vehicle’s chassis.

Connect each input lead coming from an amplifier or equalizer to the corresponding output lead coming from the left rear of the ICS-X7HD. Connect all other leads of the ICS-X7HD according to details described in the CONNECTIONS section.

5. Slide the ICS-X7HD into the dashboard until it clicks. This ensures that the unit is properly locked and will not accidentally come out from the dashboard.

Connection Diagram of SPST Switch (sold separately)

(If the ACC power supply is not available)

- If your vehicle has no ACC power supply, add an SPST (Single-Pole, Single-Throw) switch (sold separately) and fuse (sold separately).
- The diagram and the fuse amperage shown above are in the case when ICS-X7HD is used individually.
- If the switched power (ignition) lead of the ICS-X7HD is connected directly to the positive (+) post of the vehicle’s battery, the ICS-X7HD draws some current (several hundred milliamperes) even when its switch is placed in the OFF position, and the battery may be discharged.
Connections

Connections 1/2

- To remote input lead
- To plus side of the back lamp signal lead of the car
- To Video Output terminal
- To Audio Output terminals (R, L)
- Amplifier
  - Rear Left
  - Rear Right
- Amplifier
  - Front Left
  - Front Right
- Amplifier
  - Subwoofers

REMOTE OUT (Brown)

REVERSE (Orange/White)

To steering remote control interface box.

Connect this to the optional Sirius XM Tuner.

Antenna

Microphone (Included)

Not used
### Connections 2/2

<table>
<thead>
<tr>
<th>Connection</th>
<th>Connector Color</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>iPod VIDEO AV extension cable</td>
<td>Yellow/Black</td>
<td>Included with KCU-461iV</td>
</tr>
<tr>
<td>Remote Turn-On</td>
<td>Blue/White</td>
<td>To amplifier or equalizer</td>
</tr>
<tr>
<td>Audio Interrupt In</td>
<td>Pink/Black</td>
<td>Not used</td>
</tr>
<tr>
<td>Foot Brake</td>
<td>Yellow/Blue</td>
<td>To the parking brake signal lead</td>
</tr>
<tr>
<td>To the foot brake cord or brake lamp cord</td>
<td>Yellow/Black</td>
<td>To power antenna</td>
</tr>
<tr>
<td>Power Ant</td>
<td>Blue</td>
<td></td>
</tr>
<tr>
<td>Ignition</td>
<td>Red</td>
<td></td>
</tr>
<tr>
<td>Battery</td>
<td>Yellow</td>
<td></td>
</tr>
<tr>
<td>GND</td>
<td>Black</td>
<td></td>
</tr>
<tr>
<td>iPod/iPhone</td>
<td>Sold separately</td>
<td></td>
</tr>
<tr>
<td>Connection kit KCU-461iV</td>
<td>Sold separately</td>
<td></td>
</tr>
<tr>
<td>iPod Memory</td>
<td>Sold separately</td>
<td></td>
</tr>
<tr>
<td>USB extension cable</td>
<td>Included</td>
<td></td>
</tr>
<tr>
<td>USB Memory</td>
<td>Sold separately</td>
<td></td>
</tr>
<tr>
<td>USB extension cable</td>
<td>Included</td>
<td></td>
</tr>
</tbody>
</table>

**MONITOR**
- Screen Size
- LCD Type
- Operation
- Number of Effective Illumination
- Signal-to-noise
- Stereo Separation

**FM TUNER**
- Tuning Range
- Mono Usage
- Signal-to-noise
- Capture Range

**AM TUNER**
- Tuning Range
- Usable Sensitivity

**USB SEC**
- USB require
- Max Power
- USB Class
- File System
- MP3 Decoder
- WMA Decoder
- AAC Decoder
- Number of Frequency
- Total Harmonic Distortion
- Signal-to-noise
- Channel Separation

**Speakers**
- Rear left
- Front left
- Front right
- Rear right

- Frequency
- Signal-to-noise
- Channel Separation
- Frequency
- Software
### Specifications

<table>
<thead>
<tr>
<th><strong>MONITOR SECTION</strong></th>
<th><strong>BLUETOOTH SECTION</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Screen Size</td>
<td>BLUETOOTH Specification</td>
</tr>
<tr>
<td>7.0&quot;</td>
<td>Bluetooth V2.1+EDR</td>
</tr>
<tr>
<td>LCD Type</td>
<td>Output Power</td>
</tr>
<tr>
<td>Transparent type TN</td>
<td>Profile</td>
</tr>
<tr>
<td>Operation System</td>
<td>HFP (Hands-Free Profile)</td>
</tr>
<tr>
<td>TFT active matrix</td>
<td>OPP (Object Push Profile)</td>
</tr>
<tr>
<td>Number of Picture Elements</td>
<td>PBAP (Phone Book Access Profile)</td>
</tr>
<tr>
<td>1,152,000 pcs.</td>
<td>A2DP (Advanced Audio Distribution Profile)</td>
</tr>
<tr>
<td>(800 × 3 × 480)</td>
<td>AVRCP (Audio/Video Remote Control Profile)</td>
</tr>
<tr>
<td>Effective Number of Picture Elements</td>
<td>99% or more</td>
</tr>
<tr>
<td>Illumination System</td>
<td><strong>FM TUNER SECTION</strong></td>
</tr>
<tr>
<td>LED</td>
<td>Tuning Range</td>
</tr>
<tr>
<td></td>
<td>87.7 – 107.9 MHz</td>
</tr>
<tr>
<td><strong>FM TUNER SECTION</strong></td>
<td>Mono Usable Sensitivity</td>
</tr>
<tr>
<td>Tuning Range</td>
<td>9.3 dBf (0.8 µV/75 ohms)</td>
</tr>
<tr>
<td>Mono Usable Sensitivity</td>
<td>13.5 dBf (1.3 µV/75 ohms)</td>
</tr>
<tr>
<td>50 dB Quieting Sensitivity</td>
<td>Alternate Channel Selectivity</td>
</tr>
<tr>
<td>80 dB</td>
<td>80 dB</td>
</tr>
<tr>
<td><strong>AM TUNER SECTION</strong></td>
<td>Signal-to-Noise Ratio</td>
</tr>
<tr>
<td>Tuning Range</td>
<td>65 dB</td>
</tr>
<tr>
<td>Usable Sensitivity</td>
<td>35 dB</td>
</tr>
<tr>
<td>530 – 1,710 kHz</td>
<td>Capture Ratio</td>
</tr>
<tr>
<td>22.5 µV/27 dBf</td>
<td>2.0 dB</td>
</tr>
<tr>
<td><strong>USB SECTION</strong></td>
<td><strong>GENERAL</strong></td>
</tr>
<tr>
<td>USB requirements</td>
<td>Power Requirement</td>
</tr>
<tr>
<td>USB 1.1/2.0</td>
<td>14.4 V DC</td>
</tr>
<tr>
<td>Max. Power Consumption</td>
<td>(11–16 V allowable)</td>
</tr>
<tr>
<td>1,000 mA</td>
<td>Operating temperature</td>
</tr>
<tr>
<td>USB Class</td>
<td>-4°F to +140°F</td>
</tr>
<tr>
<td>USB (Play From Device)/USB (Mass Storage Class)</td>
<td></td>
</tr>
<tr>
<td>File System</td>
<td>(-20°C to + 60°C)</td>
</tr>
<tr>
<td>FAT12/16/32</td>
<td>Maximum Power Output</td>
</tr>
<tr>
<td>MP3 Decoding</td>
<td>50 W x 4</td>
</tr>
<tr>
<td>MPEG-1/2 AUDIO Layer-3</td>
<td></td>
</tr>
<tr>
<td>WMA Decoding</td>
<td>Output Voltage</td>
</tr>
<tr>
<td>Windows Media™ Audio</td>
<td></td>
</tr>
<tr>
<td>AAC Decoding</td>
<td>2,000 mW/10K ohms</td>
</tr>
<tr>
<td>AAC-LC format “.m4a” file</td>
<td></td>
</tr>
<tr>
<td>Number of Channels</td>
<td>Weight</td>
</tr>
<tr>
<td>2-Channel (Stereo)</td>
<td>1.6 kg (3 lbs. 8 oz)</td>
</tr>
<tr>
<td>Frequency Response*</td>
<td>Audio output level</td>
</tr>
<tr>
<td>5-20,000 Hz (±1 dB)</td>
<td>Preout (Front, Rear):</td>
</tr>
<tr>
<td>Total Harmonic Distortion</td>
<td>2 V/10K ohms (max.)</td>
</tr>
<tr>
<td>0.008% (at 1 kHz)</td>
<td>Preout (Subwoofer):</td>
</tr>
<tr>
<td>Dynamic Range</td>
<td>2 V/10K ohms (max.)</td>
</tr>
<tr>
<td>95 dB (at 1 kHz)</td>
<td><strong>CHASSIS SIZE</strong></td>
</tr>
<tr>
<td>Signal-to-Noise Ratio</td>
<td>100 dB</td>
</tr>
<tr>
<td>85 dB (at 1 kHz)</td>
<td>Width</td>
</tr>
<tr>
<td>Channel Separation</td>
<td>178 mm (7&quot;)</td>
</tr>
<tr>
<td></td>
<td>Height</td>
</tr>
<tr>
<td></td>
<td>100 mm (3-7/8&quot;)</td>
</tr>
<tr>
<td></td>
<td>Depth</td>
</tr>
<tr>
<td></td>
<td>159 mm (6-1/4&quot;)</td>
</tr>
</tbody>
</table>

- Due to continuous product improvement, specifications and design are subject to change without notice.
- The LCD panel is manufactured using an extremely high precision manufacturing technology. Its effective pixel ratio is over 99.99%. This means that there is a possibility that 0.01% of the pixels could be either always ON or OFF.
• Manufactured under licence from Dolby Laboratories. Dolby and the double-D symbol are trademarks of Dolby Laboratories.

• Windows Media, and the Windows logo are trademarks, or registered trademarks of Microsoft Corporation in the United States and/or other countries.

• iPhone, iPod, iPod classic, iPod nano, iPod touch, and iTunes are trademarks of Apple Inc., registered in the U.S. and other countries.

• “Made for iPod” and “Made for iPhone,” mean that an electronic accessory has been designed to connect specifically to iPod, or iPhone, respectively, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod, or iPhone may affect wireless performance.

• Pandora, the Pandora logo, and the Pandora trade dress are trademarks or registered trademarks of Pandora Media, Inc., used with permission. Pandora is currently available exclusively in the United States. This device will control Pandora when connected to a compatible iPhone.

• HD Radio Technology manufactured under license from iBiquity Digital Corporation. U.S. and Foreign Patents. HD Radio™ and the HD, HD Radio, and “Arc” logos are proprietary trademarks of iBiquity Digital Corp.

• SIRIUS, XM and all related marks and logos are trademarks of SIRIUS XM Radio Inc. and its subsidiaries. All rights reserved.

• BlackBerry®, RIM®, Research In Motion®, SureType® and related trademarks, names and logos are the property of Research In Motion Limited and are registered and/or used in the U.S. and countries around the world. Used under license from Research In Motion Limited.

• This device will control Pandora when connected to a compatible Android™ or BlackBerry® phone that has Bluetooth, access to the internet, and the latest version of the Pandora® application installed.

• DivX®, DivX Certified® and associated logos are trademarks of Rovi Corporation or its subsidiaries and are used under license.

• The BLUETOOTH® word mark and logos are registered trademarks owned by the Bluetooth SIG, Inc. and any use of such marks by Alpine Electronics, Inc. is under licence.

• “MPEG Layer-3 audio coding technology licenced from Fraunhofer IIS and Thomson.”

• “Supply of this product only conveys a licence for private, non-commercial use and does not convey a licence nor imply any right to use this product in any commercial (i.e. revenue-generation) real time broadcasting (terrestrial, satellite, cable and/or any other media), broadcasting/streaming via internet, intranets and/or other networks or in other electronic content distribution systems, such as pay-audio or audio-on-demand applications. An independent licence for such use is required. For details, please visit http://www.mp3licensing.com”

• Android is a trademark of Google Inc.

• aha, the Aha logo, and the Aha trade dress are trademarks or registered trademarks of HARMAN International Industries, used with permission.
### About the Rules of Bluetooth Electromagnetic Radiation Regulation

<table>
<thead>
<tr>
<th>Country</th>
<th>FCC WARNING</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>USA/Canada</strong></td>
<td>Changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment. This equipment complies with FCC/C radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines in Supplement C to OET65 and RSS-102 of the IC radio frequency (RF) Exposure rules. This equipment has very low levels of RF energy that it deemed to comply without maximum permissive exposure evaluation (MPE). But it is desirable that it should be installed and operated keeping the radiator at least 20 cm or more away from person's body (excluding extremities: hands, wrists, feet and ankles).</td>
</tr>
<tr>
<td><strong>Mexico</strong></td>
<td>La operación de este equipo está sujeta a las siguientes dos condiciones: (1) Este dispositivo no puede causar interferencia perjudicial, (2) este dispositivo debe aceptar cualquier interferencia recibida, incluyendo interferencia que puede ser causada por la operación no deseada del equipo (que puede causar un funcionamiento no deseado).</td>
</tr>
</tbody>
</table>

Cet équipement est conforme aux limites d'exposition aux rayonnements énoncées pour un environnement non contrôlé et respecte les règles les radioélectriques (RF) de la FCC lignes directrices d'exposition dans le Supplément C à OET65 et d'exposition aux fréquences radioélectriques (RF) CNR-102 de l'IC. Cet équipement émet une énergie RF très faible qui est considérée conforme sans évaluation de l'exposition maximale autorisée. Cependant, cet équipement doit être installé et utilisé en gardant une distance de 20 cm ou plus entre le dispositif rayonnant et le corps (à l'exception des extrémités : mains, poignets, pieds et chevilles).
LIMITED WARRANTY

ALPINE ELECTRONICS OF AMERICA, INC. AND ALPINE OF CANADA INC. ("Alpine"), are dedicated to quality craftsmanship and are pleased to offer this Warranty. We suggest that you read it thoroughly. Should you have any questions, please contact your Dealer or contact Alpine at one of the telephone numbers listed below.

● PRODUCTS COVERED:
This Warranty covers Car Audio Products and Related Accessories ("the product"). Products purchased in the Canada are covered only in the Canada. Products purchased in the U.S.A. are covered only in the U.S.A.

● LENGTH OF WARRANTY:
This Warranty is in effect for one year from the date of the first consumer purchase.

● WHO IS COVERED:
This Warranty only covers the original purchaser of the product, who must reside in the United States, Puerto Rico or Canada.

● WHAT IS COVERED:
This Warranty covers defects in materials or workmanship (parts and labor) in the product.

● WHAT IS NOT COVERED:
This Warranty does not cover the following:

1. Damage occurring during shipment of the product to Alpine for repair (claims must be presented to the carrier).
2. Damage caused by accident or abuse, including burned voice coils caused by over-driving the speaker (amplifier level is turned up and driven into distortion or clipping). Speaker mechanical failure (e.g. punctures, tears or rips). Cracked or damaged LCD panels. Dropped or damaged hard drives.
3. Damage caused by negligence, misuse, improper operation or failure to follow instructions contained in the Owner's manual.
4. Damage caused by act of God, including without limitation, earthquake, fire, flood, storms or other acts of nature.
5. Any cost or expense related to the removal or reinstallation of the product.
6. Service performed by an unauthorized person, company or association.
7. Any product which has the serial number defaced, altered or removed.
8. Any product which has been adjusted, altered or modified without Alpine's consent.
9. Any product not distributed by Alpine within the United States, Puerto Rico or Canada.
10. Any product not purchased from an Authorized Alpine Dealer.

● HOW TO OBTAIN WARRANTY SERVICE:
You are responsible for delivery of the product to an Authorized Alpine Service Center or Alpine for repair and for payment of any initial shipping charges. Alpine will, at its option, repair or replace the product with a new or reconditioned product without charge. If the repairs are covered by the warranty, and if the product was shipped to an Authorized Alpine Service Center or Alpine, Alpine will pay the return shipping charges.

2. You should provide a detailed description of the problem(s) for which service is required.
3. You must supply proof of your purchase of the product.
4. You must package the product securely to avoid damage during shipment. To prevent lost packages it is recommended to use a carrier that provides a tracking service.

ALPINE ELECTRONICS OF AMERICA, INC., 19145 Gramercy Place, Torrance, California 90501, U.S.A.
ALPINE ELECTRONICS OF CANADA, INC., 777 Supertest Road, Toronto, Ontario M3J 2M9, Canada

Do not send products to these addresses.
Call the toll free telephone number or visit the website to locate a service center.

● HOW WE LIMIT IMPLIED WARRANTIES:
ANY IMPLIED WARRANTIES INCLUDING FITNESS FOR USE AND MERCHANTABILITY ARE LIMITED IN DURATION TO THE PERIOD OF THE EXPRESS WARRANTY SET FORTH ABOVE AND NO PERSON IS AUTHORIZED TO ASSUME FOR ALPINE ANY OTHER LIABILITY IN CONNECTION WITH THE SALE OF THE PRODUCT.

● HOW WE EXCLUDE CERTAIN DAMAGES:
ALPINE EXPRESSLY DISCLAIMS LIABILITY FOR INCIDENTAL AND CONSEQUENTIAL DAMAGES CAUSED BY THE PRODUCT. THE TERM "INCIDENTAL DAMAGES" REFERS TO EXPENSES OF TRANSPORTING THE PRODUCT TO THE ALPINE SERVICE CENTER, LOSS OF THE ORIGINAL PURCHASER'S TIME, LOSS OF THE USE OF THE PRODUCT, BUS FARES, CAR RENTALS OR OTHERS COSTS RELATING TO THE CARE AND CUSTODY OF THE PRODUCT. THE TERM "CONSEQUENTIAL DAMAGES" REFERS TO THE COST OF REPAIRING OR REPLACING OTHER PROPERTY WHICH IS DAMAGED WHEN THIS PRODUCT DOES NOT WORK PROPERLY. THE REMEDIES PROVIDED UNDER THIS WARRANTY ARE EXCLUSIVE AND IN LIEU OF ALL OTHERS.

● HOW STATE/PROVINCIAL LAW RELATES TO THE WARRANTY:
This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state and province to province. In addition, some states/provinces do not allow limitations on how long an implied warranty lasts, and some do not allow the exclusion or limitation of incidental or consequential damages. Accordingly, limitations as to these matters contained herein may not apply to you.

● IN CANADA ONLY:
This Warranty is not valid unless your Alpine car audio product has been installed in your vehicle by an Authorized Installation Center, and this warranty stamped upon installation by the installation center.

● HOW TO CONTACT CUSTOMER SERVICE:
Should the product require service, please call the following number for your nearest Authorized Alpine Service Center.

CAR AUDIO 1-800-ALPINE-1 (1-800-257-4631)
NAVIGATION 1-888-NAV-HELP (1-888-628-4357)

Or visit our website at: http://www.alpine-usa.com

● PRODL Cette garantie couvre les accessoires (les pièces) de votre navigation Alpine et la fonctionnalité du produit. Elle est valable pour un an à compter de la date d'achat. Les pièces et les travaux de réparation sont gratuits, excepté les frais de transport de la marchandise.

● DURÉE Cette garantie est valable pour un an à compter de la date d'achat.

● CE QUI Cette garantie couvre les pièces et le travail de l'installation d'une navigation Alpine. Elle ne couvre pas les frais de transport de la marchandise ou la réparation des dommages occasionnés à d'autres biens en raison de la défaillance du produit.

● CE QUI Cette garantie couvre les dommages intempestifs et les dommages indirects occasionnés par la défaillance du produit. Elle ne couvre pas les frais de transport de la marchandise ou la réparation des dommages occasionnés à d'autres biens en raison de la défaillance du produit.

● CE QUI Cette garantie couvre les dommages intempestifs et les dommages indirects occasionnés par la défaillance du produit. Elle ne couvre pas les frais de transport de la marchandise ou la réparation des dommages occasionnés à d'autres biens en raison de la défaillance du produit.

● COMM Il vous est conseillé d'envoyer le produit à un centre de service Alpine agréé, afin d'éviter les frais de transport. En cas de panne, Alpine prendra en charge les frais de transport et réparera le produit de manière gratuite, sous réserve de la validité de la garantie.

ALPINE ÉLÉ TEL: 0822-275-4631
ALPINE ÉLÉ TEL: 0888-NAV-HELP (0888-628-4357)
Take a moment to protect your purchase by registering your product now at www.alpine-usa.com/registration. You will also be updated on product information, special promotions, Alpine news and may be eligible to win prizes.


Le recomendamos que proteja su adquisición registrando su producto lo antes posible en la dirección www.alpine-usa.com/registration. Asimismo, recibirá actualizaciones de información del producto, promociones especiales, noticias sobre Alpine y podrá optar a excelentes premios.