

## Alpine ILX-W670-S

# Alpine ILX-W670-S 7-inch Double-DIN Digital Multimedia Receiver and Backup Camera User Manual

## INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Alpine ILX-W670-S 7-inch Double-DIN Digital Multimedia Receiver with Backup Bullet Camera. Please read this manual thoroughly before using the product to ensure proper operation and to prevent damage.

## SAFETY INFORMATION

Always observe the following safety precautions to prevent injury or damage to the unit and vehicle:

- Do not operate the unit in a manner that distracts you from driving. Always prioritize road safety.
- Ensure all wiring is correctly connected to prevent short circuits or electrical hazards. Incorrect wiring can cause fire or damage.
- Consult a professional for installation if you are unsure about any steps.
- Keep the volume at a level that allows you to hear outside sounds, such as emergency vehicles.
- Do not disassemble or modify the unit. This may cause damage and void the warranty.

## PACKAGE CONTENTS

Verify that all items are present in the package:

- Alpine ILX-W670-S Digital Multimedia Receiver
- BULCAMC-1 Backup Bullet Camera
- Wiring Harnesses and Connectors
- Mounting Hardware
- User Manual (this document)



**Figure 1:** Alpine ILX-W670-S Digital Multimedia Receiver with included Backup Bullet Camera. The image displays the 7-inch touchscreen receiver unit, the compact bullet-style backup camera, and a small key fob accessory.

## SETUP

### Receiver Installation

The ILX-W670-S is designed for standard double-DIN vehicle openings. Its shallow-mount chassis is beneficial for vehicles with limited dash space. Professional installation is recommended for optimal performance and safety.

1. **Preparation:** Disconnect the vehicle's negative battery terminal before beginning any electrical work.
2. **Mounting:** Secure the receiver into the double-DIN opening using the provided mounting hardware. Ensure it is firmly seated.
3. **Wiring Connections:**
  - Connect the main power harness (constant 12V, accessory 12V, ground).
  - Connect speaker wires to the vehicle's speaker system.
  - Connect the backup camera input cable.
  - Connect the USB and AUX input cables as needed.
  - For steering wheel control integration, connect the SWC adapter via the 3.5mm mini jack.

- If using external amplifiers, connect the 4V pre-outs (front, rear, subwoofer).
4. **Testing:** Reconnect the battery and perform a basic function test before fully reassembling the dashboard.

## Backup Camera Installation

The BULCAMC-1 bullet camera provides a wide-angle view for enhanced safety when reversing.



**Figure 2:** Close-up view of the BULCAMC-1 Backup Bullet Camera. This image highlights the compact design and mounting bracket of the camera, which is designed for discreet installation.

1. **Mounting Location:** Choose a central location at the rear of the vehicle, typically near the license plate, that offers a clear, unobstructed view.
2. **Secure Mounting:** Drill necessary holes (if required) and securely mount the camera using the provided hardware. Ensure the camera is aimed correctly.
3. **Wiring:**
  - Connect the camera's power wire to the vehicle's reverse light circuit (12V) so it activates when the vehicle is in reverse.
  - Run the video signal cable from the camera to the camera input on the ILX-W670-S receiver.
4. **Waterproofing:** Ensure all connections are properly sealed, as the camera is IP67-68 waterproof rated.

## OPERATING INSTRUCTIONS

### Power On/Off

The unit will power on automatically when the vehicle's ignition is turned to the accessory or on position. To turn off the unit, turn off the vehicle's ignition.

## Touchscreen Interface

The ILX-W670-S features a responsive 6.75-inch touchscreen display with 800 x 480 resolution. The home screen is customizable, allowing you to arrange icons and even upload your own background image. The key illumination can be set to one of five colors (red, green, blue, amber, white).



**Figure 3:** Alpine ILX-W670-S home screen displaying various application icons. This image shows the customizable interface with options for Radio, Apple CarPlay, Android Auto, USB, iPod, SiriusXM, Bluetooth Audio, and Phone.

## Audio Features

- **Equalizer:** Utilize the 13-band graphic EQ to fine-tune audio frequencies to your preference.
- **Time Correction:** The 6-channel time correction feature allows for precise adjustment of sound delivery to each speaker, optimizing the sound stage.
- **Crossovers:** Adjust front, rear, and subwoofer crossovers to manage frequency distribution to your speakers.
- **Sound Boost Menu:** Access dedicated controls for bass, mid-bass, and subwoofer output.
- **Supported Audio Formats:** The unit supports AAC, FLAC, MP3, and WMA audio playback.

## Connectivity

- **Apple CarPlay & Android Auto:** Connect your compatible smartphone via USB for wired access to navigation, music, messaging, and other apps directly on the receiver's screen.



**Figure 4:** Alpine ILX-W670-S display showing the Apple CarPlay interface. This image illustrates the integration of smartphone applications like Phone, Music, Maps, Messages, and Podcasts onto the receiver's screen.

- **Bluetooth:** Pair your smartphone for hands-free calling and wireless audio streaming.
- **SiriusXM-Ready:** The unit is compatible with SiriusXM satellite radio (requires a separate SiriusXM Connect Vehicle Tuner and subscription).
- **AUX Input:** Connect external audio devices using the 3.5mm auxiliary input.
- **USB Input:** Use the USB port for media playback or smartphone connectivity.
- **Steering Wheel Control (SWC):** Integrate with your vehicle's factory steering wheel controls using a compatible adapter connected to the 3.5mm mini jack.

## Video Playback

The receiver supports various video formats including MP4, MKV, MOV, H.264, FLV, MPEG-4, and AVC. Video playback is typically restricted while the vehicle is in motion for safety reasons.

## Backup Camera Operation

When the vehicle is shifted into reverse, the display will automatically switch to the camera view, providing a 155-degree wide-angle perspective. The camera has a low light sensitivity of 0.5 lux, ensuring visibility in various lighting conditions.

## MAINTENANCE

- **Screen Cleaning:** Use a soft, lint-free cloth to gently wipe the touchscreen. For stubborn smudges, slightly dampen the cloth with water or a screen-safe cleaner. Avoid abrasive materials or harsh chemicals.
- **General Care:** Keep the unit free from dust and debris. Ensure all connections remain secure.
- **Camera Cleaning:** Periodically clean the camera lens with a soft cloth to ensure a clear view.

## TROUBLESHOOTING

Problem	Possible Cause	Solution
No power to the unit	Blown fuse; incorrect wiring; loose power connection.	Check vehicle fuses and the unit's fuse. Verify power and ground connections. Ensure the ignition is on.
No sound output	Volume too low; mute activated; speaker wires disconnected; incorrect audio source selected.	Increase volume. Check if mute is active. Verify speaker wiring. Select the correct audio source.
Apple CarPlay/Android Auto not connecting	Faulty USB cable; phone not compatible; software issue; phone settings.	Use a high-quality, certified USB cable. Ensure your phone's OS is updated. Check phone settings for CarPlay/Android Auto permissions. Restart phone and receiver.
Backup camera not displaying	Camera power issue; video cable disconnected; vehicle not in reverse.	Ensure vehicle is in reverse. Check camera power connection (to reverse lights). Verify video cable connection to the receiver.
Touchscreen unresponsive	Temporary software glitch; screen damage.	Restart the unit (turn vehicle off and on). If issue persists, contact support.

## SPECIFICATIONS

### Alpine ILX-W670-S Digital Multimedia Receiver

- **Display:** 6.75-inch capacitive touchscreen (800 x 480 resolution)
- **Key Illumination:** 5-color customizable (red, green, blue, amber, white)
- **Amplifier:** Built-in 16W RMS / 45W peak x 4 channels
- **Audio Processing:** 13-band graphic EQ, 6-channel time correction, Sound Boost menu, Front/Rear/Subwoofer crossovers
- **Pre-outs:** 3 pairs (Front, Rear, Subwoofer) at 4V
- **Inputs:** 1x AUX (3.5mm), 1x USB, 1x Camera, SWC adapter via 3.5mm mini jack
- **Connectivity:** Wired Apple CarPlay, Wired Android Auto, Bluetooth (hands-free calling & audio streaming), SiriusXM-ready
- **Supported Audio Formats:** AAC, FLAC, MP3, WMA
- **Supported Video Formats:** MP4, MKV, MOV, H.264, FLV, MPEG-4, AVC
- **Dimensions:** 8.75 x 6 x 7 inches (Product)
- **Weight:** 3.4 pounds

### BULCAMC-1 Backup Bullet Camera

- **Sensor:** CMOS
- **Resolution:** 420 lines
- **Minimum Illumination:** 0.5 lux
- **View Angle:** 155 degrees
- **Waterproof Rating:** IP67-68
- **Operating Temperature:** -30 to 70 °C (-22 to 158 °F)

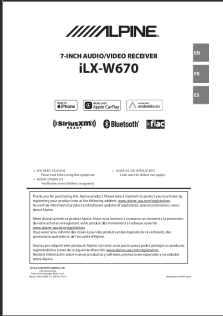
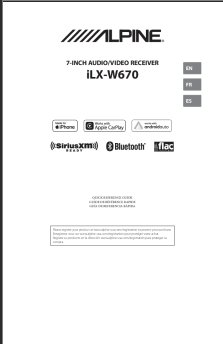


# WARRANTY INFORMATION

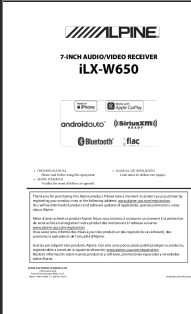

Alpine products are manufactured to high-quality standards. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official Alpine website. Keep your proof of purchase for warranty claims.

# SUPPORT

For further assistance, technical support, or to download the latest firmware updates, please visit the official Alpine website at [www.alpine-usa.com](http://www.alpine-usa.com). You may also contact Alpine customer service directly for personalized support.

## Related Documents - iLX-W670-S

	<p><a href="#">Alpine iLX-W670 7-Inch Audio/Video Receiver Owner's Manual</a></p> <p>This is the official owner's manual for the Alpine iLX-W670 7-inch audio/video receiver. It provides detailed instructions on installation, operation, setup, features like Apple CarPlay and Android Auto, Bluetooth connectivity, SiriusXM, and troubleshooting. Register your product at <a href="http://www.alpine-usa.com/registration">www.alpine-usa.com/registration</a> for updates and news.</p>
	<p><a href="#">Alpine iLX-W670 7-Inch Audio/Video Receiver - Owner's Manual</a></p> <p>Owner's manual for the Alpine iLX-W670, a 7-inch digital multimedia receiver offering advanced features like Apple CarPlay, Android Auto, Bluetooth connectivity, USB media playback, and SiriusXM compatibility for an enhanced in-car audio and video experience.</p>
	<p><a href="#">Alpine iLX-W670 7-Inch Audio/Video Receiver Quick Reference Guide</a></p> <p>Explore the features and operations of the Alpine iLX-W670 7-inch audio/video receiver with this comprehensive quick reference guide. Learn about installation, connectivity, Apple CarPlay, Android Auto, radio, USB, iPod, Bluetooth, and more.</p>
	<p><a href="#">Alpine iLX-W670: Quick Reference Guide for 7-Inch Audio/Video Receiver</a></p> <p>Get started with your Alpine iLX-W670 7-inch audio/video receiver. This quick reference guide covers installation, operation, Apple CarPlay, Android Auto, Bluetooth, and more. Register your product at <a href="http://alpine-usa.com">alpine-usa.com</a>.</p>

 The image shows the front cover of the Alpine iLX-W650 7-Inch Audio/Video Receiver Owner's Manual. At the top left is the Alpine logo. Below it, the text reads "7-INCH AUDIO/VIDEO RECEIVER" and "iLX-W650". In the center, there are icons for Apple CarPlay, Android Auto, and Bluetooth. Below these icons are logos for SiriusXM, USB, and iDin. At the bottom, there is a small rectangular box containing text, likely a disclaimer or warranty information.	<p><a href="#">Alpine iLX-W650 7-Inch Audio/Video Receiver Owner's Manual</a></p> <p>Owner's manual for the Alpine iLX-W650, a 7-inch digital multimedia receiver. Provides detailed instructions on installation, setup, and operation of features including Apple CarPlay, Android Auto, Bluetooth connectivity, SiriusXM, USB playback, radio functions, and camera integration. Includes safety precautions, specifications, and warranty information.</p>
 The image shows the front cover of the Alpine iLX-W670S 7-Inch Audio/Video Receiver Owner's Manual. At the top left is the Alpine logo. Below it, the text reads "7-INCH AUDIO/VIDEO RECEIVER" and "iLX-W670S". In the center, there are icons for Apple CarPlay, Android Auto, and Bluetooth. Below these icons are logos for SiriusXM, USB, and iDin. At the bottom, there is a small rectangular box containing text, likely a disclaimer or warranty information.	<p><a href="#">Alpine iLX-W670S 7-Inch Audio/Video Receiver Owner's Manual</a></p> <p>User manual for the Alpine iLX-W670S 7-inch digital multimedia receiver, detailing installation, operation, Apple CarPlay, Android Auto, Bluetooth, and specifications for enhanced in-car entertainment.</p>