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› KENWOOD DMX908S EXCELON Digital Multimedia Receiver & CMOS-240U Backup Camera User Manual

Kenwood DMX908-240U

KENWOOD DMX908S EXCELON Digital Multimedia Receiver & CMOS-240U Backup Camera User Manual

Model: DMX908-240U

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your KENWOOD DMX908S EXCELON Digital Multimedia Receiver and the KENWOOD CMOS-240U Universal Backup Camera. This combined system offers advanced in-car entertainment and safety features, including wireless Apple CarPlay, Android Auto, and enhanced rear visibility.

Please read this manual thoroughly before using the product to ensure proper operation and to prevent damage.



Figure 1.1: KENWOOD DMX908S Digital Multimedia Receiver and CMOS-240U Universal Backup Camera.

2. WHAT'S IN THE BOX

Verify that all components are present before beginning installation:

- KENWOOD DMX908S Digital Multimedia Receiver
- KENWOOD CMOS-240U Universal Backup Camera
- Wiring Harnesses and Connectors
- Mounting Hardware (for both receiver and camera)
- User Manual (this document)
- Warranty Information

3. SPECIFICATIONS

Feature	Specification
Product Dimensions	10 x 9.5 x 7 inches

Feature	Specification
Item Weight	9.5 pounds
Model Number	DMX908-240U
Display Type	6.95" Capacitive Touchscreen
Connectivity Technology	Bluetooth 5.0, USB Type A
Special Features	Wireless Apple CarPlay, Wireless Android Auto, HD Radio, Mirroring
Audio Features	13-band Graphic EQ, Time Alignment, Drive EQ, Digital Signal Processing
Video Encoding Support	H.264, H.265/HEVC, MPEG-4
CMOS-240U Camera View Angle	125° Wide-Angle
CMOS-240U Camera Low Light Capability	Ultra-low Lux

4. SETUP AND INSTALLATION

Professional installation is recommended for optimal performance and safety. Ensure the vehicle's battery is disconnected before beginning any electrical work.

4.1. DMX908S Receiver Installation

The DMX908S is designed for double-DIN (4" tall) dash openings. Refer to your vehicle's specific dash disassembly instructions.

- Mounting:** Secure the receiver into the vehicle's double-DIN opening using the provided mounting brackets.
- Wiring:** Connect the main power harness, speaker wires, and accessory wires according to the wiring diagram provided with the receiver. Ensure proper grounding.
- Antenna Connection:** Connect the vehicle's radio antenna.
- USB Connections:** Route the USB cables to an accessible location for smartphone connectivity.
- External Microphone:** Install the external microphone in a suitable location for clear hands-free calling.



Figure 4.1: KENWOOD DMX908S Receiver, illustrating its form factor for double-DIN installation.

4.2. CMOS-240U Backup Camera Installation

The CMOS-240U camera offers versatile mounting options. Choose the bracket that best suits your vehicle's rear license plate area or other desired location.

1. **Mounting Location:** Select a central location at the rear of the vehicle, typically above the license plate, to ensure a clear and unobstructed view.
2. **Bracket Selection:** Utilize one of the four included mounting brackets for a secure and customized fit.
3. **Wiring:**
 - Connect the camera's power wire to the vehicle's reverse light circuit to activate automatically when shifting into reverse.
 - Connect the video output cable from the camera to the dedicated camera input on the DMX908S receiver.
 - For displaying parking lines, ensure the appropriate wire is connected during installation.
 - To use as a front-view camera, connect to a suitable input and adjust settings on the receiver.
4. **Cable Routing:** Carefully route all cables to prevent pinching or damage, ensuring they are secured away from moving parts or heat sources.





Figure 4.2: KENWOOD CMOS-240U Backup Camera with various mounting options.



Figure 4.3: Close-up view of the CMOS-240U camera lens.

5. OPERATING INSTRUCTIONS

5.1. Basic Operation

- **Power On/Off:** Press and hold the power button (usually located on the front panel) to turn the unit on or off.
- **Volume Control:** Use the physical volume buttons or the on-screen controls to adjust audio levels.
- **Source Selection:** Tap the "Source" or "Home" icon on the touchscreen to select between various audio/video sources (Radio, USB, Bluetooth, CarPlay, Android Auto, Camera, etc.).
- **Touchscreen Interface:** Navigate menus and control functions by tapping, swiping, and dragging on the 6.95" capacitive touchscreen.

5.2. Apple CarPlay (Wired & Wireless)

Apple CarPlay provides a smart, safe way to use your iPhone in the car, allowing access to navigation, calls, messages, and music.

- **Wired Connection:** Connect your iPhone to the receiver's USB port using a certified Lightning cable. CarPlay will launch automatically.
- **Wireless Connection:**
 - a. Ensure Bluetooth is enabled on your iPhone and the DMX908S.
 - b. Pair your iPhone with the DMX908S via Bluetooth.
 - c. Follow the on-screen prompts to enable wireless CarPlay.
- **Siri Control:** Press the voice control button on the receiver or steering wheel (if connected) to activate Siri for hands-free commands.



Figure 5.1: Apple CarPlay interface displayed on the DMX908S screen.

5.3. Android Auto (Wired & Wireless)

Android Auto extends the Android platform into the car, designed for safety and convenience with navigation, communication, and music features.

- **Wired Connection:** Connect your Android phone to the receiver's USB port. Android Auto will launch automatically.
- **Wireless Connection:**
 - a. Ensure Bluetooth and Wi-Fi are enabled on your Android phone and the DMX908S.
 - b. Pair your Android phone with the DMX908S via Bluetooth.
 - c. Follow the on-screen prompts to enable wireless Android Auto.
- **Google Assistant:** Use voice commands to interact with Google Assistant for navigation, calls, and more.

5.4. Bluetooth Connectivity

The DMX908S features Bluetooth 5.0 for hands-free calling and audio streaming with dual phone connection capability.

- **Pairing:**
 - a. On the DMX908S, go to the Bluetooth settings menu.
 - b. Enable Bluetooth on your smartphone and search for available devices.
 - c. Select "KENWOOD DMX908S" from the list and confirm the pairing code.
- **Hands-Free Calling:** Make and receive calls directly through the receiver. The HFP 1.7 profile ensures clear call quality.
- **Audio Streaming:** Play music from your smartphone wirelessly via Bluetooth.
- **Dual Phone Connection:** Connect two phones simultaneously for hands-free calling.

5.5. Audio/Visual Features

- **13-Band Graphic EQ:** Access the equalizer settings to fine-tune the audio output to your preference.

- **Time Alignment:** Adjust the sound delay for each speaker to create an optimal listening position.
- **Drive EQ:** Enhances specific frequencies to compensate for road noise.
- **Digital Signal Processing (DSP):** Advanced audio processing for improved sound quality.
- **HD Radio:** Enjoy crystal-clear digital radio broadcasts where available.
- **High-Res Audio Playback:** Supports high-resolution audio formats like WAV and FLAC via USB.

5.6. Backup Camera Operation

The CMOS-240U camera provides enhanced visibility when reversing.

- **Automatic Activation:** When the vehicle is shifted into reverse, the camera view will automatically display on the DMX908S screen.
- **Parking Lines:** If configured during installation, dynamic or static parking guidelines will appear on the screen to assist with parking maneuvers.
- **Front-View Option:** The camera can be configured for front-view use with reverse image selection, providing versatility.

6. MAINTENANCE

- **Screen Cleaning:** Use a soft, dry, 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.
- **Software Updates:** Periodically check the KENWOOD website for firmware updates for your DMX908S receiver. Updates can improve performance, add features, and fix bugs. Follow the instructions provided with the update files carefully.
- **Camera Lens Cleaning:** Keep the CMOS-240U camera lens clean from dirt, dust, and water spots to ensure a clear image. Use a soft cloth and mild cleaner if necessary.
- **General Care:** Avoid exposing the unit to extreme temperatures, direct sunlight for prolonged periods, or excessive moisture.

7. TROUBLESHOOTING

If you encounter issues, refer to the following common problems and solutions before contacting support.

Problem	Possible Cause	Solution
No Power	Blown fuse; Incorrect wiring; Vehicle battery low.	Check vehicle fuses and receiver's fuse; Verify wiring connections; Charge or replace vehicle battery.
No Audio Output	Volume too low; Mute activated; Speaker wires disconnected; Incorrect audio settings.	Increase volume; Deactivate mute; Check speaker connections; Reset audio settings.
CarPlay/Android Auto Not Connecting	Faulty USB cable; Phone settings; Software glitch; Bluetooth/Wi-Fi issues.	Use a certified USB cable; Ensure phone is unlocked and has necessary permissions; Restart phone and receiver; Check Bluetooth/Wi-Fi connections.
Backup Camera Not Displaying	Camera power issue; Video cable disconnected; Reverse trigger wire not connected.	Check camera power supply; Verify video cable connection to receiver; Ensure reverse trigger wire is correctly wired.

Problem	Possible Cause	Solution
Bluetooth Pairing Issues	Phone not discoverable; Incorrect pairing code; Interference.	Ensure phone's Bluetooth is on and discoverable; Re-enter pairing code; Move away from other Bluetooth devices.

8. WARRANTY AND SUPPORT

Your KENWOOD DMX908S EXCELON Digital Multimedia Receiver and CMOS-240U Universal Backup Camera are covered by a manufacturer's warranty. Please refer to the separate warranty card included in your product packaging for specific terms, conditions, and duration.

For technical support, troubleshooting assistance beyond this manual, or warranty claims, please contact KENWOOD customer service or visit the official KENWOOD support website. Contact information can typically be found on the KENWOOD website or in your warranty documentation.

Online Support: www.kenwood.com/usa/car/support/