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### B-Qtech YL-303

# B-Qtech 7 inch Wireless Backup Camera System Digital Signal HD 1080P Rear View Monitor Kit User Manual

Model: YL-303

## 1. Overview

The B-Qtech 7 inch Wireless Backup Camera System is designed to enhance driving safety and convenience by providing a clear, real-time view of the area behind your vehicle. This system features a stable 2.4G digital wireless signal, a high-definition 1080P camera with night vision capabilities, and a durable IP69 waterproof design. The large 7-inch HD monitor offers adjustable viewing options, making it suitable for a wide range of vehicles including trucks, cars, RVs, trailers, campers, vans, and buses.




Figure 1: B-Qtech 7 inch Wireless Backup Camera System with HD 1080P Monitor

## 2. Package Contents

Please verify that all items listed below are included in your package:

- 7-inch HD Monitor with Sunshade
- 1080P Wireless Camera with 20 Infrared Lights
- Monitor Power Cable (Cigarette Lighter Adapter)
- Camera Power Cable
- U-shaped Bracket for Monitor
- Antennas (for monitor and camera)
- Mounting Hardware (screws, adhesive pads, etc.)
- User Manual




Figure 2: Complete contents of the B-Qtech Wireless Backup Camera System kit

## 3. Setup and Installation

The B-Qtech Wireless Backup Camera System is designed for straightforward installation with minimal wiring. Follow these steps for proper setup:

### 3.1 Camera Installation

1. **Choose Camera Mounting Location:** Select a suitable location at the rear of your vehicle, typically above the license plate or on a flat surface that provides a clear view. Ensure the camera lens is not obstructed.
2. **Secure the Camera:** Use the provided mounting bracket and screws to securely attach the camera to your chosen location.
3. **Connect Camera Power:** Connect the camera's power cable to a 12V DC power source. For automatic activation when reversing, connect the red wire to your vehicle's reverse light positive wire and the black wire to a ground point. For continuous power, connect to a constant 12V source.
4. **Attach Camera Antenna:** Screw the antenna firmly onto the camera's designated port.




Figure 3: Example of camera mounting on a vehicle

## 3.2 Monitor Installation

1. **Choose Monitor Mounting Location:** Select a position on your dashboard or windshield that allows for easy viewing without obstructing your driving view.
2. **Secure the Monitor:** Attach the monitor to the U-shaped bracket. Use the suction cup mount for windshield installation or the adhesive base for dashboard mounting. Adjust the angle for optimal visibility.
3. **Connect Monitor Power:** Plug the monitor's power cable (cigarette lighter adapter) into your vehicle's 12V cigarette lighter socket.
4. **Attach Monitor Antennas:** Screw the two antennas firmly onto the monitor's designated ports.




Figure 4: Monitor mounted on a vehicle dashboard for easy viewing

### 3.3 System Pairing

The camera and monitor are pre-paired at the factory. Once both are powered on, they should automatically connect and display the camera feed. If no image appears, ensure both units are powered correctly and within range.




Figure 5: Wireless connection diagram between camera and monitor

## 4. Operating Instructions

Familiarize yourself with the monitor's controls and features for optimal use.

### 4.1 Basic Operation

- **Power On/Off:** The monitor powers on automatically when connected to a powered cigarette lighter socket. Press the power button on the monitor to manually turn it on or off.
- **Automatic Display:** When the camera is connected to the reverse lights, the monitor will automatically display the rear view when the vehicle is put into reverse.

### 4.2 Monitor Settings

Use the buttons on the monitor to navigate the menu and adjust settings:

- **Brightness/Contrast/Saturation:** Adjust these settings to optimize image quality based on lighting conditions.
- **Parking Guidelines:** Enable or disable parking guidelines. Some models may allow customization of the guideline width and position.
- **Image Flip:** Change the image orientation (normal/mirror view) to suit your preference or mounting style.
- **Multi-Channel Display:** If additional cameras are connected (up to 4 supported, though only one is included in this kit), you can switch between single, dual, or quad-split screen views.




Figure 6: Monitor showing parking guidelines and image flip options




Figure 7: Multi-channel display options on the monitor

### 4.3 Night Vision

The camera is equipped with 20 infrared lights that automatically activate in low-light conditions, providing clear night vision up to 15-20 meters.




Figure 8: Day and Night Vision capabilities of the camera

## 5. Maintenance

To ensure the longevity and optimal performance of your B-Qtech Wireless Backup Camera System, follow these maintenance guidelines:

- **Camera Cleaning:** Regularly clean the camera lens with a soft, damp cloth to remove dirt, dust, or water spots that may obstruct the view. Avoid abrasive cleaners.
- **Monitor Cleaning:** Wipe the monitor screen with a soft, dry cloth. For stubborn smudges, use a screen-safe cleaning solution.
- **Weather Resistance:** The camera is IP69 waterproof and designed to withstand extreme temperatures (-4℉ to 198℉). However, avoid prolonged exposure to direct high-pressure water sprays.
- **Cable Inspection:** Periodically check all cables and connections for any signs of wear, damage, or loose connections.

## 6. Troubleshooting

If you encounter issues with your backup camera system, refer to the following common problems and solutions:

| Problem | Possible Cause | Solution |
|---|---|---|
| No image on monitor | No power to camera or monitor; Camera/monitor not paired; Signal interference. | Check power connections; Ensure both units are powered on; Re-pair if necessary (refer to manual for specific pairing steps if auto-pairing fails); Relocate antennas for better signal. |
| Flickering or distorted image | Weak signal; Electrical interference; Damaged cable. | Ensure antennas are securely attached; Check for strong electromagnetic interference sources; Inspect cables for damage. |
| Night vision not working | IR lights obstructed; Camera malfunction. | Clear any obstructions from the camera lens and IR lights; Contact support if issue persists. |
| Monitor not turning on automatically in reverse | Camera not correctly wired to reverse lights. | Verify the camera's power wire is correctly connected to the reverse light circuit. |

## 7. Specifications

| Feature | Detail |
|---|---|
| Model Number | YL-303 |
| Screen Size | 7 Inches |
| Display Technology | LCD or LED |
| Video Resolution | 1080P HD |
| Wireless Signal | 2.4G Digital Signal |
| Transmission Distance | Up to 108FT (open area) |
| Waterproof Rating | IP69 |
| Operating Temperature | -4℉ to 198℉ (-20℃ to 92℃) |
| Night Vision | 20 Infrared Lights (15-20 meters range) |
| Power Input | 12 Volts DC |
| Product Dimensions | 6.81 x 0.79 x 4.5 inches (Monitor) |
| Item Weight | 2.88 pounds |
| Manufacturer | B-Qtech |

## 8. Warranty and Support

For warranty information and technical support, please refer to the documentation included in your product package or contact B-

Qtech customer service directly. Details for contacting support are typically found on the manufacturer's website or in the provided user manual.

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