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Eyoyo EYH2, EY-F1

Eyoyo EYH2 Handheld USB 2D Barcode Scanner and EY-F1 Wireless Android Barcode Scanner User Manual

1. INTRODUCTION

This manual provides essential information for the proper setup, operation, and maintenance of your Eyoyo EYH2 Handheld USB 2D Barcode Scanner and Eyoyo EY-F1 Wireless Android Barcode Scanner. Please read this manual thoroughly before using the devices to ensure optimal performance and longevity.



Image 1.1: The Eyoyo EYH2 Handheld USB 2D Barcode Scanner (left) and the Eyoyo EY-F1 Wireless Android Barcode Scanner (right). The EYH2 is a wired scanner designed for direct USB connection, while the EY-F1 is a mobile computer with

integrated scanning capabilities and a full keypad.

2. SETUP

2.1 Eyoyo EYH2 Handheld USB 2D Barcode Scanner

The Eyoyo EYH2 scanner is designed for plug-and-play operation. No additional drivers or software are typically required for basic functionality.

1. Connect the USB cable from the EYH2 scanner to an available USB port on your computer or Point-of-Sale (POS) system.
2. The scanner will be recognized by the operating system (Windows, macOS, Linux) as a standard HID keyboard device.
3. Open a text editor or any application where you want to input scanned data.
4. Scan a barcode to test the connection. The scanned data should appear as if typed by a keyboard.



Image 2.1: The Eyoyo EYH2 USB Barcode Scanner connected to a laptop, demonstrating its plug-and-play compatibility with Windows, macOS, Linux, and POS systems. The USB cable length is 1.8 meters (5.9 feet).

2.2 Eyoyo EY-F1 Wireless Android Barcode Scanner

The Eyoyo EY-F1 is a mobile computer with integrated scanning capabilities. Initial setup involves charging and basic configuration.

1. **Charging the Battery:** Before first use, fully charge the device using the provided power adapter and USB cable. The 5050mAh battery provides extended operation.
2. **Power On:** Press and hold the power button until the device vibrates and the screen illuminates.
3. **Initial Configuration:** Follow the on-screen prompts to set up the Android 15 operating system, including language, Wi-Fi connection, and Google account setup.
4. **Network Connectivity:** Configure Wi-Fi, cellular (2G/3G/4G), or Bluetooth settings as needed for your operational environment.

3. OPERATING INSTRUCTIONS

3.1 Scanning Performance and Capabilities

Both Eyoyo scanners offer superior 1D and 2D barcode scanning performance, capable of reading various barcode types, including those that are damaged, worn, or displayed on screens.

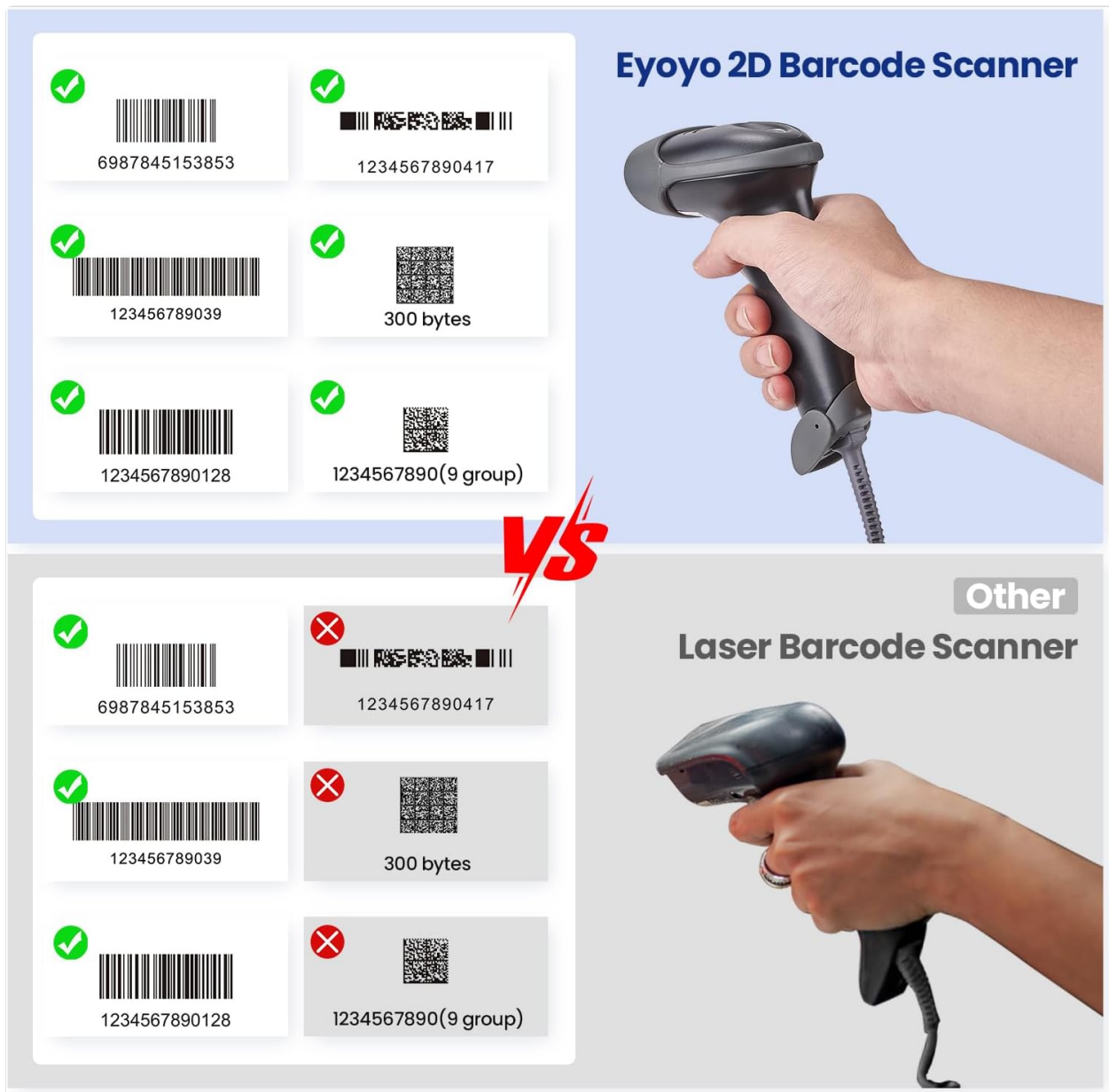


Image 3.1: Comparison illustrating the superior scanning capabilities of the Eyoyo 2D Barcode Scanner (top) over a typical Laser Barcode Scanner (bottom). The Eyoyo scanner successfully reads various 1D and 2D barcodes, including those that are partially obscured or complex, such as 6987845153853, 1234567890417, 123456789039, 300 bytes, 1234567890128,

and 1234567890 (9 group), while the laser scanner fails on several complex or damaged codes.

CMOS Screen Scanning

Easily to read barcode on the screen of mobile devices.



Image 3.2: The Eyoyo EYH2 scanner demonstrating its ability to easily read barcodes displayed on various mobile devices and computer screens, such as the GS1 DataBar barcode 0155123456789012.

3.2 Eyoyo EYH2 Scanning Modes

The EYH2 scanner supports two primary scanning modes:

- **Auto-sensing Scan Mode:** The scanner automatically detects a barcode within its field of view and scans it without requiring a trigger press. This is ideal for hands-free operation.
- **Key Trigger Mode:** The user must press the trigger button on the scanner to initiate a scan. This mode provides precise control over when a barcode is read.



Image 3.3: Illustration of the two scanning modes for the Eyoyo EYH2: Auto-sensing Scan Mode (top) where the scanner automatically reads barcodes, and Key Trigger Mode (bottom) where a manual button press is required.

3.3 Eyoyo EY-F1 Operating System and Applications

The EY-F1 runs on the latest Android 15 operating system, offering compatibility with a wide range of applications.

- **Application Support:** Easily supports over 1000 applications, including popular inventory and asset management software such as inFlow, Zoho, Sortly, Odoo, and Orcascan.
- **Future Compatibility:** The Android 15 OS ensures long-term performance and upgradeability, supporting future Android versions.

3.4 Eyoyo EY-F1 Input Methods

The EY-F1 offers flexible input options for user convenience and efficiency.

- **Touchscreen:** Navigate the Android interface and input data using the responsive touchscreen display.
- **Keypad:** Utilize the physical keypad for rapid data entry, especially useful in environments requiring frequent numerical or specific character input.

Touchscreen & Keypad Operation

Covenience to switching, easy to improve efficiency

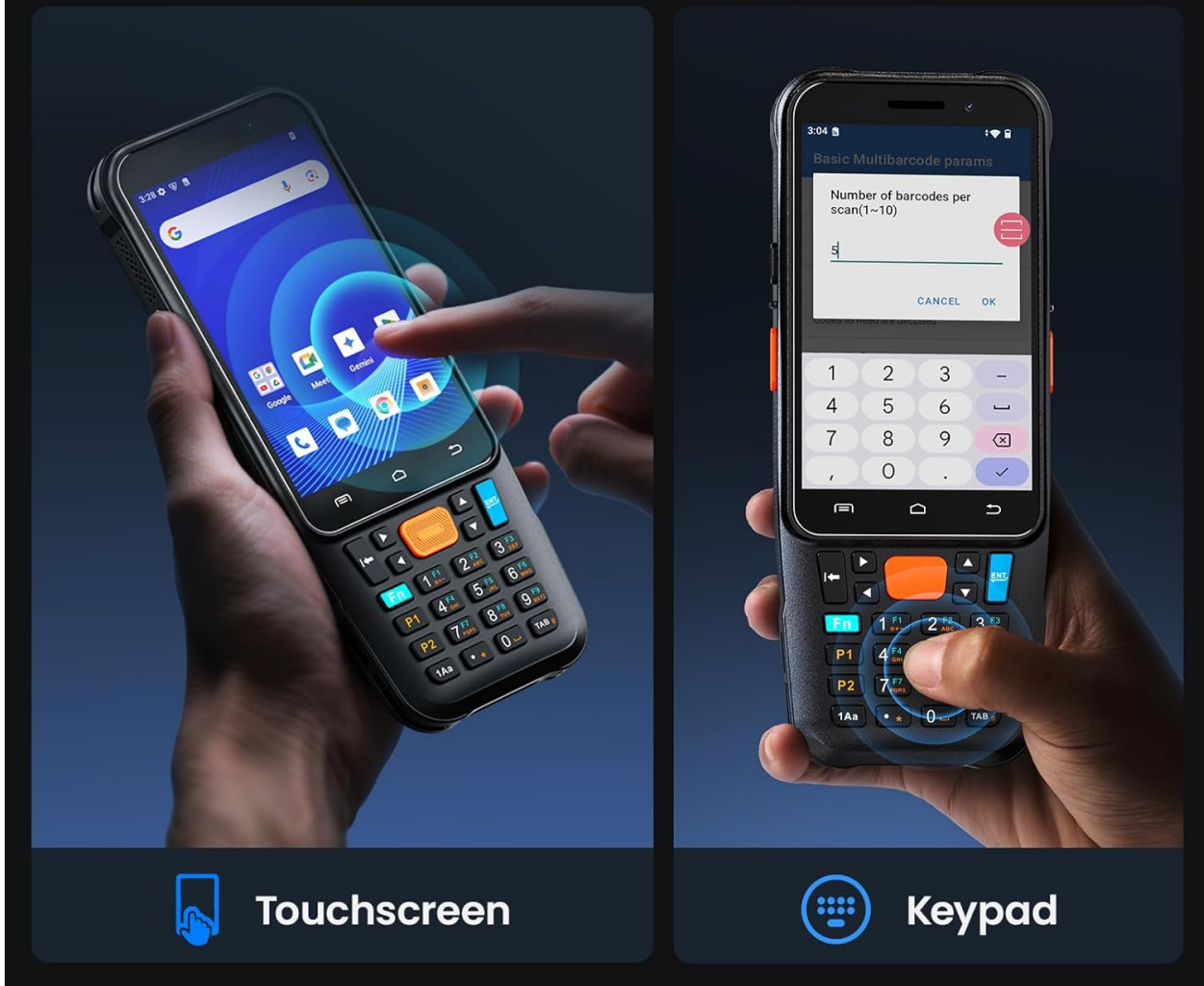


Image 3.4: The Eyoyo EY-F1 demonstrating both touchscreen (left) and physical keypad (right) operation, providing flexibility for data input and navigation.

3.5 Eyoyo EY-F1 Connectivity

The EY-F1 provides multiple connectivity options to ensure reliable communication in various environments.

- **Wi-Fi:** Connect to local wireless networks for data transfer and internet access.
- **Cellular (2G/3G/4G):** Supports mobile networks, making it suitable for large outdoor areas or locations with limited Wi-Fi coverage.
- **Bluetooth 5.0:** Pair with compatible headsets, portable printers, and other wireless peripherals.
- **Optional NFC:** For near-field communication applications.

Multiple Connection Methods

Provide dependable connection for any worker, anywhere



Image 3.5: Diagram illustrating the multiple connection methods available on the Eyoyo EY-F1, including Wi-Fi, Cellular (2G, 3G, 4G), Bluetooth 5.0, and Optional NFC, enabling dependable connectivity for various work environments.

4. MAINTENANCE

4.1 Durability and Environmental Resistance (EY-F1)

The Eyoyo EY-F1 is engineered for industrial-grade durability, making it suitable for harsh environments.

- **Drop-proof:** Designed to withstand accidental drops.
- **IP66 Waterproof:** Provides protection against strong jets of water.
- **Dustproof:** Resistant to dust ingress.
- **Reinforced Display and Scanner Window:** Equipped with specially treated durable glass for enhanced protection.

Industrial-Grade Durability

Sustainable enough to use on most harsh environments



Drop-proof



IP66 Waterproof



Dustproof



Image 4.1: The Eyoyo EY-F1 demonstrating its industrial-grade durability features, including drop-proof, IP66 waterproof, and dustproof capabilities, suitable for harsh working conditions.

4.2 Cleaning Instructions

To maintain optimal performance and hygiene:

- Use a soft, lint-free cloth lightly dampened with water or a mild, non-abrasive cleaning solution to wipe the exterior of the scanner.
- For the scanner window, use a lens cleaning cloth or a soft cloth with a small amount of isopropyl alcohol. Avoid harsh chemicals that may damage the lens.
- Ensure the device is powered off and disconnected from any power source before cleaning.
- Do not immerse the devices in water or spray cleaning solutions directly onto them.

4.3 Battery Care (EY-F1)

The EY-F1 features a 5050mAh battery designed for full-shift power.

- Charge the battery regularly to maintain its health. Avoid completely draining the battery frequently.
- Use only the original or certified compatible charging accessories.
- Store the device in a cool, dry place when not in use for extended periods.

5. TROUBLESHOOTING

5.1 General Scanning Issues

- **Scanner not reading barcodes:**
 - Ensure the barcode is clean, undamaged, and within the scanner's optimal reading range.
 - Check if the scanner's light is active (for EYH2, ensure it's connected; for EY-F1, ensure the scanning application is open).
 - Verify the barcode type is supported by the scanner.
- **Incorrect data output:**
 - Ensure the correct keyboard layout is selected on the host device (for EYH2).
 - Check scanner configuration settings for data formatting.

5.2 Connectivity Issues (EY-F1)

- **Wi-Fi/Cellular connection unstable:**
 - Check network signal strength.
 - Restart the device and attempt to reconnect.
 - Verify network settings and credentials.
- **Bluetooth pairing failure:**
 - Ensure both devices are in pairing mode and within range.
 - Restart Bluetooth on both devices.

5.3 Device Not Responding (EY-F1)

- If the device becomes unresponsive, press and hold the power button for approximately 10-15 seconds to force a restart.
- Ensure the battery is sufficiently charged.

6. SPECIFICATIONS

Feature	Eyoyo EYH2 USB Scanner	Eyoyo EY-F1 Android Scanner
Model	EYH2	EY-F1
Scanning Capability	1D & 2D Barcodes (damaged, worn, screen-displayed)	1D & 2D Barcodes (damaged, worn, screen-displayed)
Connection Type	USB Wired (1.8m / 5.9ft cable)	Wi-Fi, Cellular (2G/3G/4G), Bluetooth 5.0, Optional NFC
Operating System	Host OS dependent (Windows, macOS, Linux, POS)	Android 15
Battery	N/A (USB powered)	5050mAh (12 hours continuous scanning)
Durability	Standard handheld durability	Drop-proof, IP66 Waterproof, Dustproof, Reinforced Glass
Input Methods	Scanning trigger	Touchscreen, Physical Keypad, Scanning trigger
Manufacturer	Eyoyo	
Date First Available	July 14, 2025	

7. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation included with your purchase or visit the official Eyoyo website. Keep your purchase receipt as proof of purchase for warranty claims.

- **Online Resources:** Check the Eyoyo official website for FAQs, driver downloads, and additional support materials.
- **Contact Support:** If you encounter issues not covered in this manual, please contact Eyoyo customer service for assistance.