

## Keyence IV-M30

# Keyence IV-M30 Intelligent Monitor User Manual

Comprehensive guide for setup, operation, and maintenance of the Keyence IV-M30 Intelligent Monitor.

## PRODUCT OVERVIEW

The Keyence IV-M30 is an intelligent monitor designed for industrial applications, featuring a 3.5-inch TFT color LCD with QVGA resolution (320 x 240 dots). It includes a white LED backlight and supports USB memory for data transfer. The monitor operates on a 24V DC input voltage with a maximum current of 0.2 Amp and is housed in an Enclosure Type 1.



Figure 1: Keyence IV-M30 Intelligent Monitor in its original packaging, showing the product box with Keyence branding and model number IV-M30.

## Safety Information

Always read and understand all safety precautions before operating the IV-M30 monitor. Failure to follow these instructions may result in injury or damage to the equipment.

- **Power Supply:** Ensure the power supply is 24V DC and does not exceed 0.2 Amp maximum current.
- **Environment:** Operate the monitor within specified environmental conditions to prevent malfunction.
- **Installation:** Installation should be performed by qualified personnel in accordance with local electrical codes.
- **Maintenance:** Disconnect power before performing any maintenance or cleaning.

## Package Contents

Verify that all items listed below are present in the package upon unboxing.

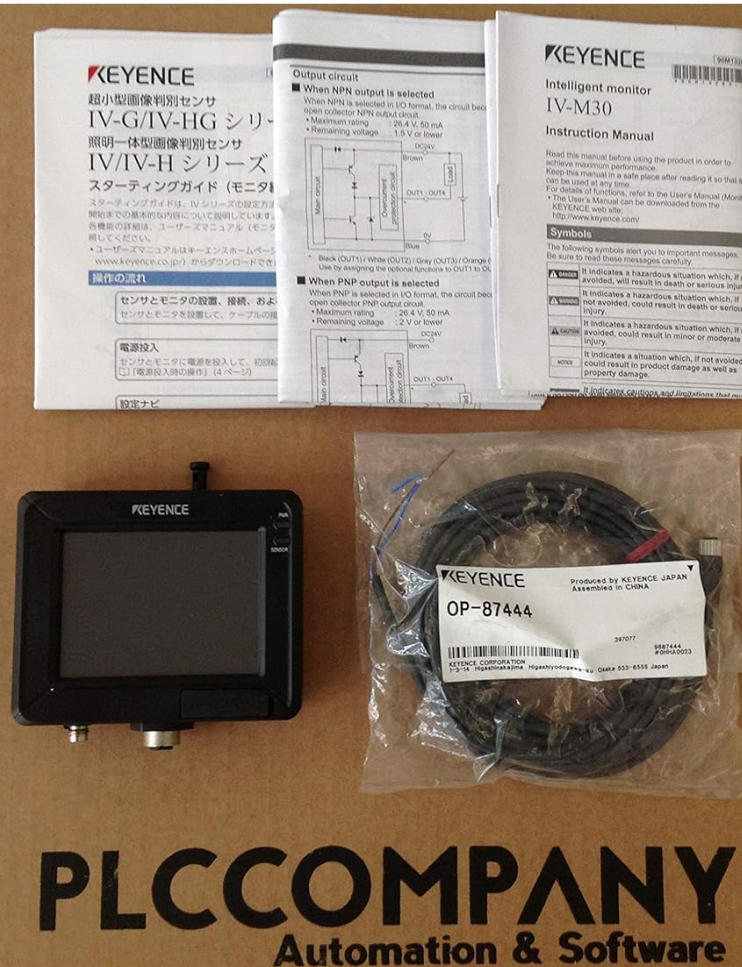


Figure 2: Contents of the Keyence IV-M30 package, including the monitor unit, instruction manuals, and a connecting cable (OP-87444).

- Keyence IV-M30 Intelligent Monitor Unit
- Instruction Manual(s)
- Connecting Cable (e.g., OP-87444, as seen in image)

## SETUP

### 1. Physical Installation

Mount the IV-M30 monitor securely in the desired location. Ensure adequate ventilation around the unit.





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## Automation & Software

Figure 3: Close-up view of the Keyence IV-M30 Intelligent Monitor and its accompanying cable (OP-87444), ready for connection.

## 2. Electrical Connections

Connect the 4-pin connector to the monitor. Ensure the 24V DC power supply is connected correctly to the designated terminals. Refer to the wiring diagram in the included instruction manual for precise connections. The monitor requires a 24V DC input voltage and draws a maximum of 0.2 Amp. Incorrect wiring can damage the unit.



Figure 4: Rear view of the Keyence IV-M30 Intelligent Monitor, highlighting the connection ports and product labels including model number and power requirements.

### 3. Initial Power On

Once all connections are secure, apply power to the unit. The monitor should power on and display the initial boot screen.

## OPERATING INSTRUCTIONS

### Display and Interface

The IV-M30 features a 3.5-inch TFT color LCD with a touchscreen interface for intuitive operation. Navigation is primarily done through touch gestures.





Figure 5: Close-up of the Keyence IV-M30 Intelligent Monitor's screen and control buttons (PWR, SENSOR), showing the Keyence logo.

## Basic Navigation

- **Touch Screen:** Use light touches to select options and navigate menus.
- **PWR Button:** Located near the screen, typically used for power on/off or standby.
- **SENSOR Button:** Used for specific sensor-related functions, as detailed in the full product manual.

## USB Memory Functionality

The monitor supports USB memory for data logging, configuration backup, or firmware updates. Insert a compatible USB drive into the designated port (if available, not explicitly visible in images but mentioned in description).

## MAINTENANCE

### Cleaning

To clean the monitor's screen and casing, use a soft, dry cloth. For stubborn marks, a slightly damp cloth with a mild, non-abrasive cleaner can be used. Avoid excessive moisture and harsh chemicals.

### Firmware Updates

Periodically check the Keyence official website for available firmware updates. Updates can improve performance, add features, or resolve issues. Follow the instructions provided with the firmware package for safe installation, typically involving a USB memory device.

## TROUBLESHOOTING

Problem	Possible Cause	Solution
Monitor does not power on.	No power supply; Incorrect wiring; Faulty power supply.	Verify 24V DC power connection; Check wiring according to manual; Test power supply.
Screen is blank or flickering.	Loose cable connection; Software issue; Hardware malfunction.	Ensure all cables are securely connected; Restart the monitor; Contact Keyence support if problem persists.
Touchscreen unresponsive.	Calibration needed; Software glitch; Physical damage.	Attempt touchscreen recalibration (refer to full manual); Restart the monitor; Inspect for physical damage.

## SPECIFICATIONS

- **Model:** IV-M30
- **Display:** 3.5-inch TFT Color LCD
- **Resolution:** 320 x 240 dots (QVGA)
- **Backlight:** White LED
- **Memory Support:** USB Memory
- **Connector:** 4-pin
- **Input Voltage:** 24V DC
- **Input Current:** 0.2 Amp Max
- **Enclosure Type:** 1
- **Product Dimensions:** 12 x 6 x 3 inches
- **Weight:** 1.41 Pounds

## WARRANTY AND SUPPORT

### Warranty Information

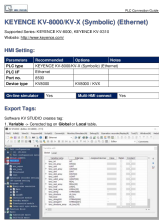





For detailed warranty terms and conditions, please refer to the warranty card included with your product or visit the official Keyence website. Keep your proof of purchase for warranty claims.

### Technical Support

If you encounter issues not covered in this manual or require further assistance, please contact Keyence technical support. Contact information can typically be found on the Keyence official website or in the product documentation. *Note:* Always provide your product model number (IV-M30) and a detailed description of the issue when contacting support.



Related Documents - IV-M30

	<p><a href="#">KEYENCE KV-8000/KV-X (Symbolic) Ethernet PLC Connection Guide</a></p> <p>A comprehensive guide for connecting KEYENCE KV-8000 and KV-X series PLCs using Ethernet with WEINTEK's EasyBuilder Pro software. Covers HMI settings, tag export/import, data type support, and Ethernet wiring.</p>
	<p><a href="#">KEYENCE AI Series Pattern Matching Sensor: Advanced Area Detection</a></p> <p>Discover the KEYENCE AI Series Pattern Matching Sensor, offering redefined area detection with its proprietary AIA technology. Learn about its easy one-button teaching, versatile detection modes (Presence/Absence, Differentiation), and user-friendly features for industrial automation.</p>
	<p><a href="#">Keyence PZ-V/M Series: Intelligent Reflective Photoelectric Sensors for Enhanced Stability</a></p> <p>Discover the Keyence PZ-V/M Series of self-contained photoelectric sensors, offering superior stability and reliability in detecting various targets, including those with challenging colors, shapes, or backgrounds. Learn about their advanced technologies like P.S.D. and A.P.R. circuits, one-touch calibration, and robust design for harsh environments.</p>
	<p><a href="#">KEYENCE IL Series: High-Performance CMOS Laser Displacement Sensors</a></p> <p>Discover the KEYENCE IL Series CMOS Laser Displacement Sensors, offering exceptional precision (1μm repeatability), wide measurement ranges (20mm to 1m), and advanced features like Super-resolution Algorithm for reliable industrial automation and inspection.</p>
	<p><a href="#">KEYENCE WM-WL WLAN Unit Instruction Manual</a></p> <p>Instruction manual for the KEYENCE WM-WL WLAN unit, covering safety precautions, regulatory information, and warranty details.</p>
	<p><a href="#">KEYENCE LR-W70C Sensor Data Sheet and Dimensions</a></p> <p>Detailed data sheet and dimensional drawings for the KEYENCE LR-W70C, a small dual spot type sensor with an M12 connector. Includes wiring information and specifications.</p>