# IV-H500MA

Industrial automation components

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|---|---|
| **Manufacturer** | Keyence |
| **Catalog number** | iv-h500ma |
| **Category** | Industrial automation components |
| **Product type** | Industrial automation components |
| **Status** | Active product |

## Technical specification

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|---|---|
| **Current** | 1 A |
| **Product Type** | Sensor |
| **Image Sensor Type** | 1/3-inch monochrome CMOS |
| **Image Sensor Resolution** | 752 (H) × 480 (V) pixels |
| **Focus Adjustment** | Automatic |
| **Exposure Time** | 1/10 to 1/25,000 seconds |
| **Illumination Type** | Red LED |
| **Lighting Method** | Pulse lighting/DC lighting switchable |
| **Detection Tools** | 16 tools |
| **Position Adjustment Tool** | 1 tool |
| **Image Storage Capacity** | 300 images |
| **Connectivity** | 100BASE-TX/10BASE-T Ethernet, FTP client, EtherNet/IP™, PROFINET |
| **Power Supply** | 24 VDC ±10% |

## Description

The Keyence IV-H500MA is a standard-distance monochrome vision sensor designed for precise image capture and analysis in industrial automation applications. Operating within an installation distance of 50 to 500 mm, it offers a versatile field of view ranging from 25 (H) × 18 (V) mm to 210 (H) × 157 (V) mm, accommodating various inspection tasks.

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Equipped with a 1/3-inch monochrome CMOS image sensor with a resolution of 752 (H) × 480 (V) pixels, it ensures high-quality imaging for accurate detection and measurement. The sensor features automatic focus adjustment, facilitating easy setup and consistent performance.

Exposure times are adjustable from 1/10 to 1/25,000 seconds, providing flexibility to adapt to different lighting conditions. Integrated red LED illumination with switchable pulse and DC lighting modes enhances image clarity and contrast.

The IV-H500MA supports 16 detection tools and one position adjustment tool, enabling comprehensive analysis capabilities. It can store up to 300 images, with the option to back up data to external devices via FTP.

Connectivity options include 100BASE-TX/10BASE-T Ethernet, supporting FTP client, EtherNet/IP™, and PROFINET protocols. The sensor operates on a 24 VDC ±10% power supply with a maximum current consumption of 0.6 A.

Designed for durability, it boasts an IP67 enclosure rating, ensuring reliable performance in harsh industrial environments. The ambient temperature range for operation is 0 to +50 °C (32 to 122 °F), and it can withstand vibrations up to 10 to 55 Hz with a double amplitude of 1.5 mm for 2 hours in each direction.

The IV-H500MA is housed in an aluminum die-cast case, with a front cover made of acrylic and a mounting adapter of POM, weighing approximately 270 g.