Keyence IV3-500CA

Model: IV3-500CA
Brand: Keyence
Series: IV3 Series

Vision sensor with built-in AI, standard field of view smart camera, color type.

—— Hardware ——
Type: Smart camera, standard view
Installed distance: 50 mm or more
Field of view: Installation distance 50 mm: 22 (H) x 16 (V) mm to installation distance 3000 mm: 1184 (H) x 888 (V) mm
Image receiving element: 1/2.9 inch color CMOS, 1280 (H) x 960 (V) pixels
Focus adjustment: Auto
Exposure time: 12 us to 10 ms
Illumination: White LED
Lighting method: Pulse / continuous lighting switchable
Number of tools: 65 tools
Available modes: Standard mode / Sorting mode

—— Communication ——
Built-in ports: M12 8-pin X-code female Ethernet (1000BASE-T/100BASE-TX), M12 12-pin A-code male power/I/O
Protocols: EtherNet/IP, PROFINET (Class B), TCP/IP non-procedure comm, FTP client, SFTP client
Communication expansion: None (DL Series communication units when connected via amplifier)

—— Electrical ——
Supply voltage: 24 VDC +25%/-20% (including ripple)
Power consumption: 3.3 A or less (without AI lighting unit, with output load); 1.8 A or less (with AI lighting unit, with output load)
Output type: Photo MOS relay output, N.O./N.C. switchable, maximum rating 30 V 50 mA
PoE: PoE Power Class 3/4/6
Number of inputs: 6 (3 selectable IN/OUT)
Number of outputs: 6 (3 selectable IN/OUT)

—— Environmental ——
Operating temperature: 0 to +50° C (no freezing)
Relative humidity: 35 to 85% RH (no condensation)
Protection rating: IP67 (except when polarizing filter OP-88640/OP-88641/OP-88644/OP-88645 is

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mounted)
Vibration resistance: 10 to 55 Hz, double amplitude 1.5 mm, 2 hours in each of X/Y/Z directions (except when dome attachment IV3-D10 is mounted)
Shock resistance: 500 m/s^2, 3 times in each of 6 directions (except when dome attachment IV3-D10 is mounted)

—— Physical ——
Dimensions (H×W×D): Not available
Material: Main unit case: Aluminum die-casting/PBT/TPU. Indicator light cover: TPU. Ethernet connector: Aluminum die-casting/LCP. Front cover: Acrylic (hard coating). Power connector: Aluminum die-casting/LCP. Nameplate: PET. Waterproof cap for Power connector: PC+ABS alloy. Waterproof cap for Ethernet connector: PC.
Weight: Approx. 300 g (without AI lighting unit), approx. 495 g (with AI lighting unit)

—— Lifecycle ——
Active; official Keyence production status confirmed via product/spec page (Last verified: 2026-09)

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