

IV-500M

Sensor, Standard distance, Monochrome, Manual focus model



SPECIFICATIONS

Model		IV-500M
Type		Standard distance
Installed distance		50 to 500 mm
View		Installed distance 50 mm: 25 (H) x 18 (V) mm to installed distance 500 mm: 210 (H) x 157 (V) mm
Image sensor	Type	1/3 inch monochrome CMOS
	Pixel	752 (H) x 480 (V)
Focus adjustment		Manual
Exposure time		1/10 to 1/25,000
Lights	Illumination	Red LED
	Lighting method	Pulse lighting/DC lighting is switchable
Tools	Type	Shape Detection, Colour Area ^{*1} , Area ^{*2} , position adjustment
	Number	Detection tools: 16 tools, position adjustment tool: 1 tool ^{*3}
Switch settings (programs)		32 programmes
Image history	Numbers	300 images ^{*4} ^{*5}
	Condition	NG only/All is selectable ^{*5}
Analysis information		OFF/Statistics/Histograms is switchable Statistics: Processing time (latest value, MAX, MIN, AVE), number of OKs, number of NGs, trigger numbers, trigger errors, judgement results list by tools Histograms: Histogram, matching degree (latest value, MAX, MIN, AVE), numbers of OKs, numbers of NGs ^{*6}
Other functions		HDR, HighGain, Colour filters ^{*1} , Digital zoom ^{*2} , Brightness correction, Tilt correction, White balance ^{*1} , Mask outline, Mask area, Test run, ToolAutoTune, Input monitor, Output test, Security settings, Simulator ^{*7}
Indicators		PWR/ERR, OUT, TRIG, STATUS, LINK/ACT
Input	Type	Non-voltage input/voltage input is switchable For non-voltage input: ON voltage 2 V or lower, OFF current 0.1 mA or lower, ON current 2 mA (short circuit) For voltage input: Maximum input rating 26.4 V, ON voltage 18 V or higher, OFF current 0.2 mA or lower, ON current 2 mA (for 24 V)
	Inputs	6 inputs (IN1 to IN6)
	Function	IN1: External trigger, IN2 to IN6: Enable by assigning the optional functions Assignable functions: Program switching, Clear error, External master image registration
Output	Type	Open collector output NPN/PNP is switchable, N.O./N.C. is switchable For open collector NPN output: Maximum rating 26.4 V 50 mA, remaining voltage 1.5 V or lower For open collector PNP output: Maximum rating 26.4 V 50 mA, remaining voltage 2 V or lower
	Outputs	4 outputs (OUT1 to OUT4)
	Function	Enable by assigning the optional functions Assignable functions: Total judgement result, RUN, BUSY, Error, Position adjustment result, Judgement result of each tool, Result of the logical operation of each tool, Main unit/expansion unit logical output
Ethernet	Standard	100BASE-TX/10BASE-T ^{*8}
	Connector	M12 4pin connector ^{*8}
Network function		FTP client, EtherNet/IP TM , PROFINET
Rating	Power voltage	24 VDC \pm 10 % (including ripple)
	Current consumption	0.6 A or less
Environmental resistance	Enclosure rating	IP67 ^{*9}
	Ambient temperature	0 to +50 °C (No freezing)
	Relative humidity	35 to 85 % RH (No condensation)
	Vibration resistance	10 to 55 Hz, Double amplitude 1.5 mm, 2 hours in each of the X, Y, and Z directions ^{*10}
	Shock resistance	500 m/s ² , 3 times in each of 6 directions ^{*10}
Material		Main unit case: Aluminium die-casting, Packing: NBR, Front cover: Acrylic, Mounting adapter: POM
Weight		Approx. 270 g

^{*1} Colour type only^{*2} Possible with both the colour type and monochrome type^{*3} Tools can be installed by programmes.^{*4} When using the FTP client function: 210 pictures^{*5} Saves to the memory in the sensor. The images saved in the sensor can be backed up to the USB memory installed to the intelligent monitor (IV-M30) or to the PC by the software for IV (IV-H1).^{*6} This can be displayed on the intelligent monitor (IV-M30) or by software for IV (IV-H1).^{*7} Simulator can be used with the IV software (IV-H1).^{*8} This is for connection with the intelligent monitor (IV-M30) or software for IV (IV-H1).^{*9} Except when polarised filter attachment (OP-87436/OP-87437) is mounted^{*10} Except when IV-G dome attachment (IV-D10) is mounted

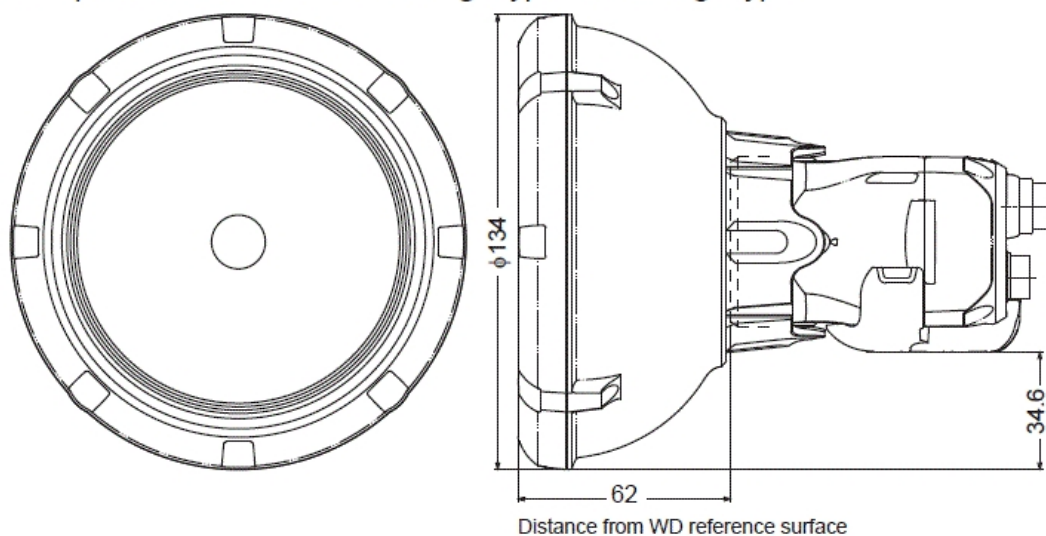
* Download CAD file or product manual for larger image/text and more detail.

- [illegible]

- **With dome attachment**

Installed distance: 0 to 50 mm from the front of the dome attachment

Compatible sensor: Standard range type/Short range type



- **With polarizing filter attachment**

