



FHV7X-C016-S06-W-01

AI Detection Camera, focal length 6 mm, colour type, 1.6 Mpix resolution, white illuminator, motorized lens module, 24 VDC, IP67, pre-assembled

Specifications

Application	AI defect inspection, AI product detection
Number of pixels	1.6 MP
Camera with lens	✓
Communication port(s)	EtherNet/IP, Ethernet TCP/IP, PROFINET Slave
Focal length	6 mm
Focus distance	60-1000 mm
Autofocus	✓
Camera type	Color
Frame rate	224 fps
Illumination	White LED
Image width	1440 pixels
Image height	1080 pixels
Pixel size	3.45 µm
Shutter type	Global
Image sensor format	1/2.9"
Image sensor type	CMOS
Lens type	Motorized
Degree of protection (IP)	IP67

Accessories



FHV-VDB2 10M

FHV7 Power / IO Cable, straight 10 m, M12 connector

	FHV-VDB2 20M	FHV7 Power / IO Cable, straight 20 m, M12 connector
	FHV-VDB2 2M	FHV7 Power / IO Cable, straight 2 m, M12 connector
	FHV-VDB2 3M	FHV7 Power / IO Cable, straight 3 m, M12 connector
	FHV-VDB2 5M	FHV7 Power / IO Cable, straight 5 m, M12 connector
	FHV-VDLB2 10M	FHV7 Power / IO Cable, right angle 10 m, M12 connector
	FHV-VDLB2 20M	FHV7 Power / IO Cable, right angle 20 m, M12 connector
	FHV-VDLB2 2M	FHV7 Power / IO Cable, right angle 2 m, M12 connector
	FHV-VDLB2 3M	FHV7 Power / IO Cable, right angle 3 m, M12 connector
	FHV-VDLB2 5M	FHV7 Power / IO Cable, right angle 5 m, M12 connector
	FHV-VNB2 10M	FHV7 Ethernet cable, straight 10 m, M12 connector
	FHV-VNB2 20M	FHV7 Ethernet cable, straight 20 m, M12 connector
	FHV-VNB2 2M	FHV7 Ethernet cable, straight 2 m, M12 connector
	FHV-VNB2 3M	FHV7 Ethernet cable, straight 3 m, M12 connector
	FHV-VNB2 5M	FHV7 Ethernet cable, straight 5 m, M12 connector

	FHV-VNLB2 10M	FHV7 Ethernet cable, right angle 10 m, M12 connector
	FHV-VNLB2 20M	FHV7 Ethernet cable, right angle 20 m, M12 connector
	FHV-VNLB2 2M	FHV7 Ethernet cable, right angle 2 m, M12 connector
	FHV-VNLB2 3M	FHV7 Ethernet cable, right angle 3 m, M12 connector
	FHV-VNLB2 5M	FHV7 Ethernet cable, right angle 5 m, M12 connector
	FHV-VUB2 10M	Smart Camera data unit cable, bend resistant, 10 m
	FHV-VUB2 20M	Smart Camera data unit cable, bend resistant, 20 m
	FHV-VUB2 2M	Smart Camera data unit cable, bend resistant, 2 m
	FHV-VUB2 3M	Smart Camera data unit cable, bend resistant, 3 m
	FHV-VUB2 5M	Smart Camera data unit cable, bend resistant, 5 m
	FHV-VULB2 10M	Smart Camera data unit cable, bend resistant, right angle, 10 m
	FHV-VULB2 20M	Smart Camera data unit cable, bend resistant, right angle, 20 m
	FHV-VULB2 5M	Smart Camera data unit cable, bend resistant, right angle, 5 m
	FHV-XMT-7	Fixture for FHV7

	NYE2A-20F11-12WR1200	Touch screen HMI Panel PC with FHV7 Viewer, Windows 10 IOT 2021, Intel Atom E3950 CPU, 12 inch, 1 x RS-232C, 2 x Ethernet (10/100/1000 Base-T), 2 x USB 2.0 Ports, 1 x USB 3.0 Port, 128 GB CFAST, 24 VDC, black case
	NYE2A-20F11-12WR1300	Touch screen HMI Panel PC with FHV7 viewer, Windows 10 IOT 2021, Intel Atom E3950 CPU, 12 inch, 1 x RS-232C, 2 x Ethernet (10/100/1000 Base-T), 2 x USB 2.0 Ports, 1 x USB 3.0 Port, 128 GB CFAST, 24 VDC, silver case
	NYE2A-20F11-15WR1200	Touch screen HMI Panel PC with FHV7 Viewer, Windows 10 IOT 2021, Intel Atom E3950 CPU, 15 inch, 1 x RS-232C, 2 x Ethernet (10/100/1000 Base-T), 2 x USB 2.0 Ports, 1 x USB 3.0 Port, 128 GB CFAST, 24 VDC, black case
	NYE2A-20F11-15WR1300	Touch screen HMI Panel PC with FHV7 Viewer, Windows 10 IOT 2021, Intel Atom E3950 CPU, 15 inch, 1 x RS-232C, 2 x Ethernet (10/100/1000 Base-T), 2 x USB 2.0 Ports, 1 x USB 3.0 Port, 128 GB CFAST, 24 VDC, silver case
	S8VK-S12024	Book type power supply, 120 W, 24VDC, 5A, DIN rail mounting, Push-in terminal, Coated
	W4S1-05D	5-port enhanced Ethernet switch
	XW2Z-050EE	Parallel I/O cable for terminal block XW2R-_34G-T, 0.5 m
	XW2Z-100EE	Parallel I/O cable for terminal block XW2R-_34G-T, 1 m
	XW2Z-200EE	Parallel I/O cable for terminal block XW2R-_34G-T, 2 m
	XW2Z-S013-2	Parallel I/O cable, 2m, for FH series only

CAD file



FHV7-AI Launcher v6.62
Software

EN ZIP 770 KB



FHV7-AI Simulator v6.62
Software

EN ZIP 204 MB



FHV7-AI Vision Sensor
Users Manual

EN PDF 19.1 MB



FHV7-AI_AI Detection Camera
Datasheet

EN PDF 4.64 MB

FHV7X-C016-S06-W-01
EDZ file

EN EDZ 103 KB



FHV7_-C016-S_-W-01
Instruction Sheet

EN PDF 2.63 MB



Omron FHV7H-xxxx-x
PROFINET GSDML file

EN ZIP 3.93 KB



Omron FHV7X-C016-Sxx-W-01
EtherNet/IP EDS file

EN ZIP 2.3 KB

Environmental product information

Part number	RoHS (EU)2015/863	REACH	SVHC contained
FHV7X-C016-S06-W-01	✓	✓	No

 Dispose in accordance with applicable regulations.

SVHC content information has been adapted as a result of the adoption at our company of chemSHERPA v.2, the Japanese standard for chemical information sharing and exchange throughout the supply chain.

We continuously make our best effort to communicate compliance information transparently to our customers, however some information may still be in the process to be collected or displayed. So don't hesitate to contact us in case a specific product or information you're looking for can't be found here.

