



FHV7X-M016-S06-MC

FH Vision Smart Camera, high performance, monochrome type, 1.6 Mpix resolution, 3.45 μm pixel size, 1/2.9" chip size, global shutter, motorized lens module, focal length 6 mm, multi color illuminator, 24 VDC, IP67, pre-assembled

Specifications

Number of pixels	1.6 MP
Camera with lens	✓
Communication port(s)	EtherNet/IP, Ethernet TCP/IP, PROFINET Slave, Serial RS-232C
Communication option(s)	EtherCAT Slave
Focal length	6 mm
Focus distance	59-1000 mm
Autofocus	✓
Camera family	FHV
Camera type	Monochrome
Frame rate	224 fps
Illumination	Multi-coloured 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 mount	Other
Lens type	Motorized
Optics class	Not Applicable
Degree of protection (IP)	IP67
Application	2D Robot guidance, Bead inspection, Code reading, Code verification, Counting, Defect inspection, Measurement inspection, OCR / OCV, Presence / Absence

Accessories



FHV-LEM-H06

FHV7 Liquid lens module, 6 mm focal length



FHV-LEM-H19

FHV7 Liquid lens module, 19 mm focal length



FHV-LEM-S06

FHV7 lens module, 6 mm focal length



FHV-LEM-S09

FHV7 lens module, 9 mm focal length



FHV-LEM-S12

FHV7 lens module, 12 mm focal length



FHV-LEM-S16

FHV7 lens module, 16 mm focal length



FHV-LEM-S25

FHV7 lens module, 25 mm focal length



FHV-LTM-IR

FHV7 illumination module, IR, includes protection window



FHV-LTM-MC

FHV7 illumination module, multi color Red Green Blue, IR, includes protection window



FHV-LTM-R

FHV7 illumination module, red, includes protection window



FHV-LTM-W

FHV7 illumination module, white, includes protection window



FHV-SDU30

FHV7 extended data unit, EtherCAT interface



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-VDBX2 10M

FHV7 Power / IO Cable, straight, super bend resistant, 10 m, M12 connector



FHV-VDBX2 5M

FHV7 Power / IO Cable, straight, super bend resistant, 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-VDLBX2 10M

FHV7 Power / IO Cable, right angle, super bend resistant, 10 m, M12 connector



FHV-VDLBX2 5M

FHV7 Power / IO Cable, right angle, super bend resistant, 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-VNBX2 5M

FHV7 Ethernet cable, straight, super bend resistant, 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-VNLBX2 10M

FHV7 Ethernet cable, right angle, 10 m, super bend resistant, M12 connector



FHV-VNLBX2 5M

FHV7 Ethernet cable, right angle, super bend resistant, 5 m, M12 connector



FHV-VUB2 10M

Smart Camera data unit cable, bend resistant, 10 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 2M

Smart Camera data unit cable, bend resistant, right angle, 2 m



FHV-VULB2 3M

Smart Camera data unit cable, bend resistant, right angle, 3 m



FHV-VULB2 5M

Smart Camera data unit cable, bend resistant, right angle, 5 m



FHV-XCV

FHV7 Replacement Lighting cover



FHV-XDF

FHV7 Diffusion filter

FHV-XFC-C

Facing cover for C-mount Lens, 1 cover, 5 screws



FHV-XFC-LEM-H

Facing cover for Liquid Lens Modules, 1 cover, 5 screws

FHV-XFC-LEM-S

Facing cover for Lens Modules, 1 cover, 5 screws



FHV-XHD-L

FHV7 Waterproof hood, long, for 3Z4S-LE SV-H series




FHV-XHD-LEM

FHV7 Waterproof hood, for motorized lens modules

	FHV-XHD-S	FHV7 Waterproof hood, short, for 3Z4S-LE SV-V series
	FHV-XLS-LTM	FHV7 lighting shielding sheet
	FHV-XMT-7	Fixture for FHV7
	FHV-XMT-7-TCC	Lighting controller fixture for FHV7
	FHV-XPL	FHV7 Polarization filter, for visible light
	FHV-XPL-IR	Polarized Light Filter, for visible and IR light
	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

Spare parts

	FHV-XLS-LTM	FHV7 lighting shielding sheet
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Operation Manual**

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Setup Manual**

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**FHV7 Series
Datasheet**

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**FHV7H_Simulator_Launcher_v655
Software**

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**FHV7X_Simulator_Launcher
Software**

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**FHV7 -M___-C C___-
C - Smart Camera
Instruction Sheet**

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**IfzToBitmap V160
Software**

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**Omron FHV7H-xxxx-x
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**Selection Guide for
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Brochure**

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Touch panel monitor for FHV7 Smart Camera

Flyer

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