



FHV7X-M004-S06-MC

FH Vision Smart Camera, high performance, monochrome type, 0.4 Mpix resolution, 6.9 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	0.4 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	430 fps
Illumination	Multi-coloured LED
Image width	720 pixels
Image height	540 pixels
Pixel size	6.9 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-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-XDF	FHV7 Diffusion filter
	FHV-XMT-7	Fixture for FHV7
	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-XCV

FHV7 Replacement Lighting cover



FHV-XLS-LTM

FHV7 lighting shielding sheet

Downloads

CAD Library



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**FH Series Vision System
- Sysmac Studio
Operation Manual**

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**FH Series Vision System
- Hardware
Setup Manual**

EN PDF 21.4 MB



**FH Series Vision System
- Macro Customize
Functions
Programming Manual**

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Communications
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**FH/FHV Series Vision
System
Users Manual**

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FH/FHV Series Vision System - Processing Item Function

Reference Manual

EN PDF 38.6 MB



FH/FHV Vision Application Guide for ABB robots

Practice Guide

EN PDF 3.01 MB



FH/FHV Vision Application Guide for Denso robots

Practice Guide

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FH/FHV Vision Application Guide for Epson robots

Practice Guide

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FH/FHV Vision Application Guide for Fanuc robots

Practice Guide

EN PDF 3.02 MB



FH/FHV Vision Application Guide for Omron robots

Practice Guide

EN PDF 3.27 MB



FHV Series Setup Manual

EN PDF 26.6 MB



FHV7 Series Datasheet

EN PDF 7.43 MB



FHV7H Simulator Launcher v655 Software

EN ZIP 34.1 MB



FHV7X Simulator Launcher Software

EN ZIP 40.2 MB



FHV7 -M -C C - Smart Camera Instruction Sheet

EN PDF 4.33 MB



IfzToBitmap V160 Software

EN ZIP 2.02 MB



Omron FHV7H-xxxx-x PROFINET GSDML file

EN ZIP 3.93 KB



Robot Setting Tool Software

EN ZIP 3.09 MB



Selection Guide for Vision Sensors Brochure

EN PDF 991 KB



Touch panel monitor for FHV7 Smart Camera

Flyer

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