

AI Detection Camera
FHV7-AI series

OMRON

AI Vision Made Easy: Smarter Detection, Simple Setup



Ever given up automating a defect inspection due to cost and effort?

**Difficult to
configure/adjust**

Can't figure out which processing items to use.

Expertise is key to achieving accurate results.

**Limited to
high-cost options**

Simple inspections shouldn't require a big budget.

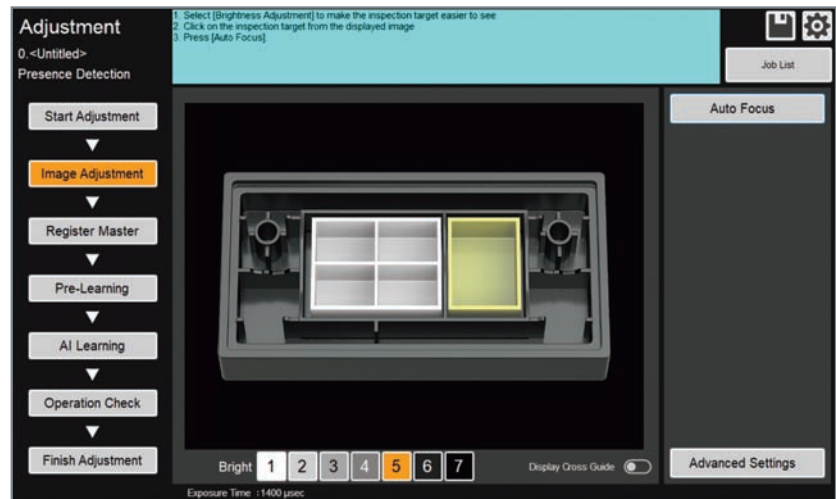
Smarter automation made easy with OMRON's AI Detection Camera.



Discover AI Detection
Camera Features

Easy setup by simply following the guide.

**Easy
configuration,
no expertise
required**



All-in-One lighting and lenses
for effortless selection

**Smart Value,
Smarter Vision**



Powered by AI

Setup completed in just a few minutes



How-to Video

Presence/Product Detection/Product type

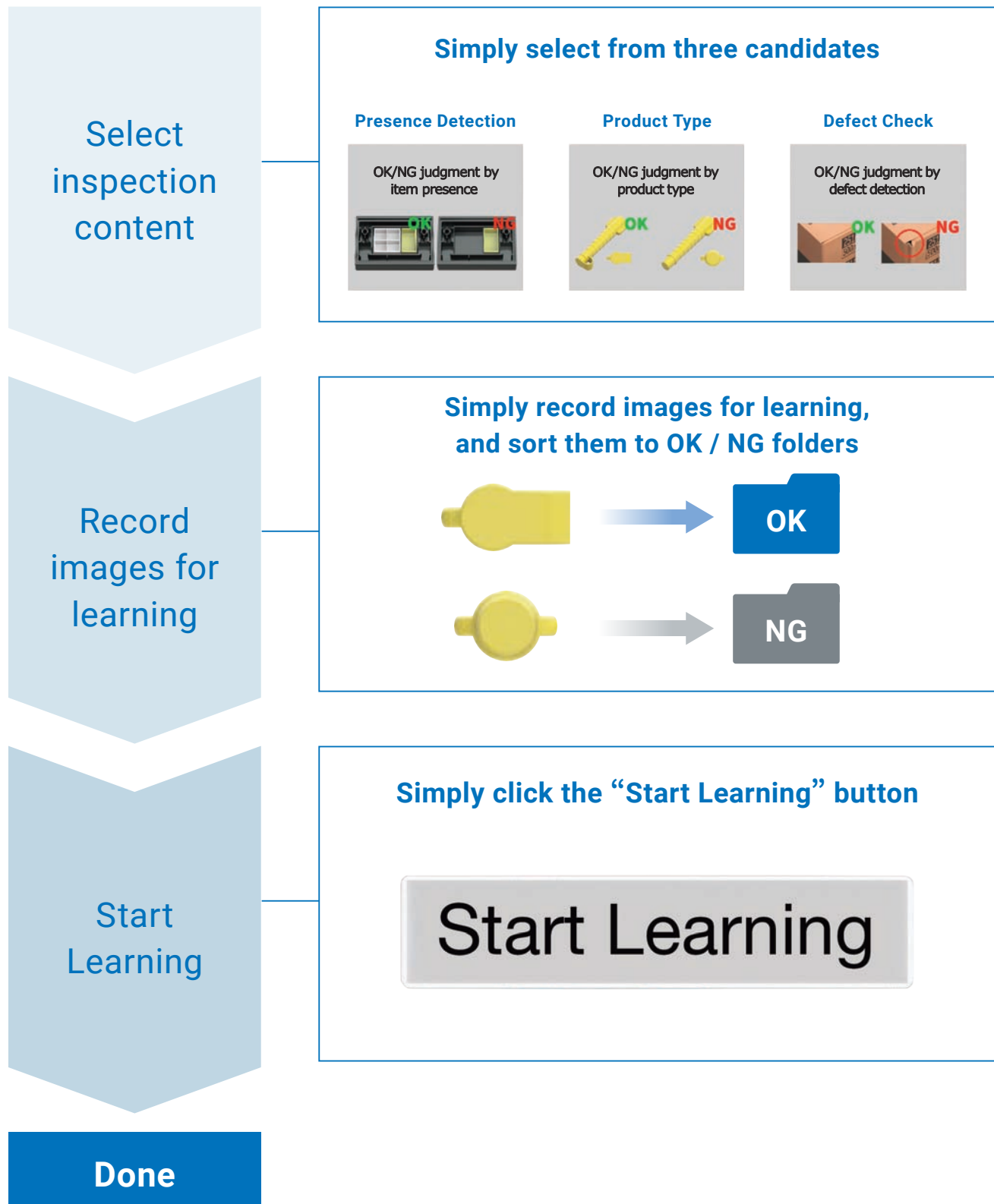


How-to Video

Defect Check

Intuitive UI for effortless use

The AI Detection Camera is so intuitive that even first-time users can set it up. Just follow the on-screen steps and configure it in a few clicks.



New Self-learning AI that can be used with zero AI skills

AI itself selects the right images to learn

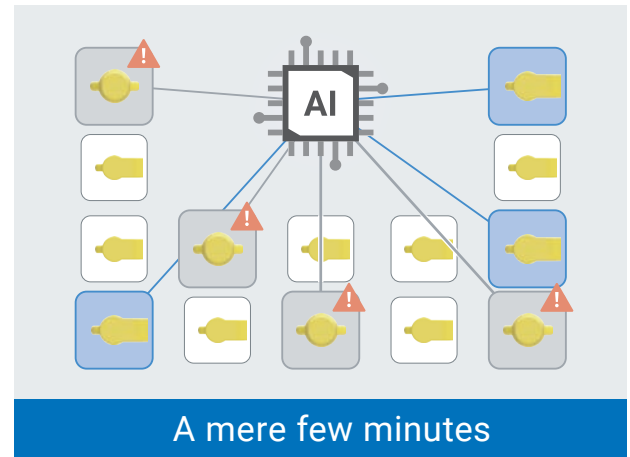
Conventional AI

For AI to make proper judgments, it's critical that you teach it the right data. With conventional AI, it's up to humans to select the images to teach, which requires skills for identifying such images. Also, repeated additional learning can take days.



New Self-learning AI

All you need to do is provide it with just a few images, and the right ones will be selected automatically to achieve zero over detection through accurate judgment.

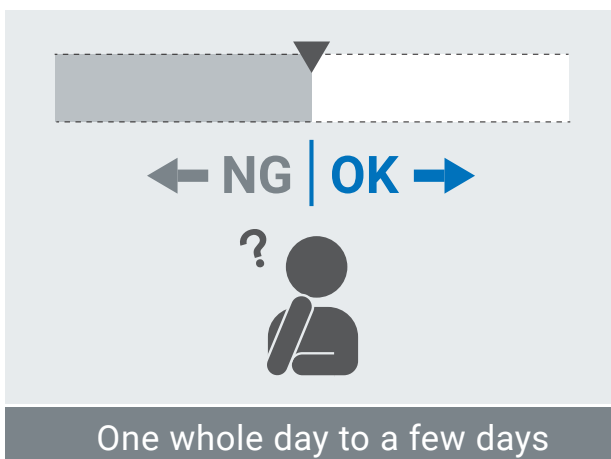


*Detection rate is that of images provided for learning.

AI itself sets threshold values

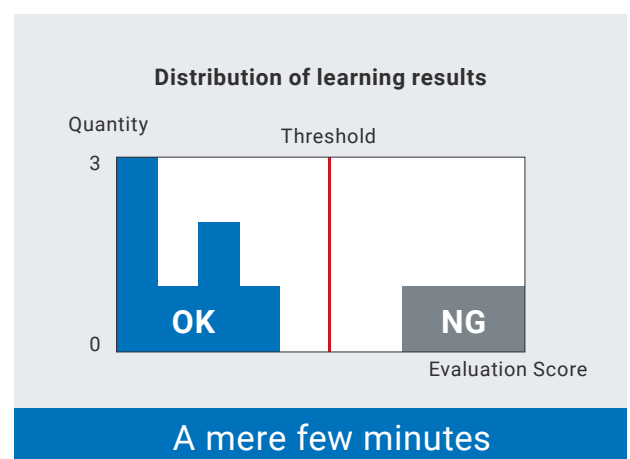
Conventional Vision Sensor

Teaching conventional AI to correctly distinguish between OK/NG for products requires testing repeatedly while fine-tuning threshold values. This can take days to complete.



New Self-learning AI

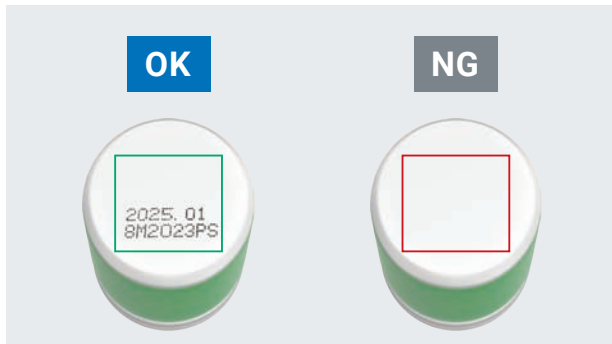
AI automatically sets threshold values based on the distribution of learning results.



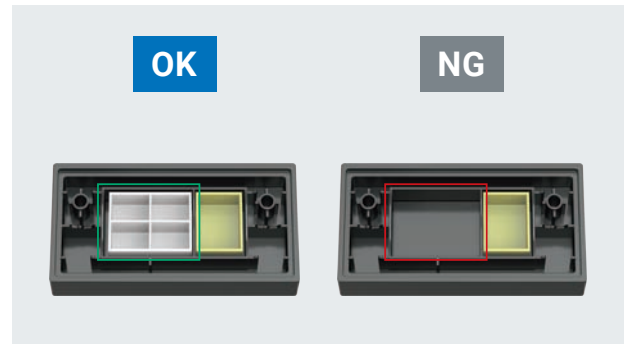
Applications

Presence detection

Printing on food containers



Assembly components on molded products



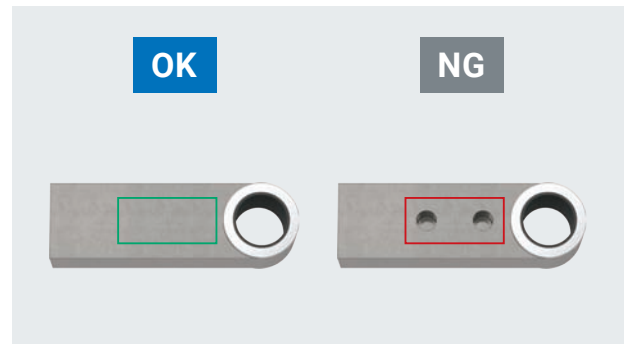
Orientation detection

Orientation of component positioning/placement



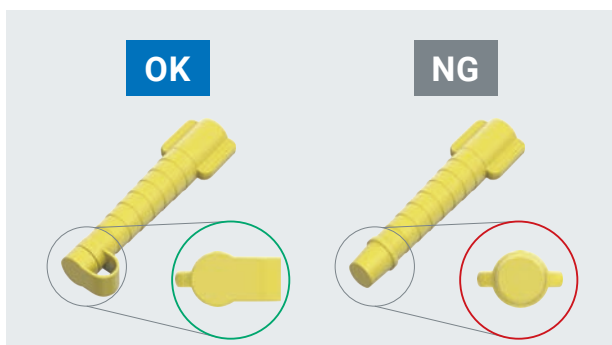
Front/back detection

Front/back of machine components



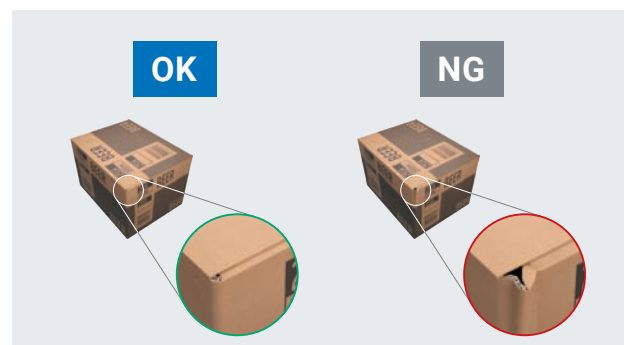
Type detection

Incorrect cap types for tube containers



Simple defect detection

Pre-shipment inspection of dents in cardboard



Usable in a wide range of settings

Robust structure

IP67 waterproof structure

IP67 compatible to allow use in wet conditions, such as regular wash-downs at the sites where the cameras are installed.



High-mix production

Easy switching with autofocus

Autofocus lens lets you perform changeover just by switching your condition settings,* even in high-mix production of items of varying sizes.



Configuration operations

From your PC

You can download the software for free after purchasing the product and signing up online.
For details, see the member registration sheet included with the AI Detection Camera unit.



Operation via touch panel monitor

You can use the touch panel monitor by installing the software for AI Detection Camera. You can download the software for free after purchasing the product and signing up online.

For details, see the member registration sheet included with the AI Detection Camera unit.



AI Detection Camera FHV7-AI Series

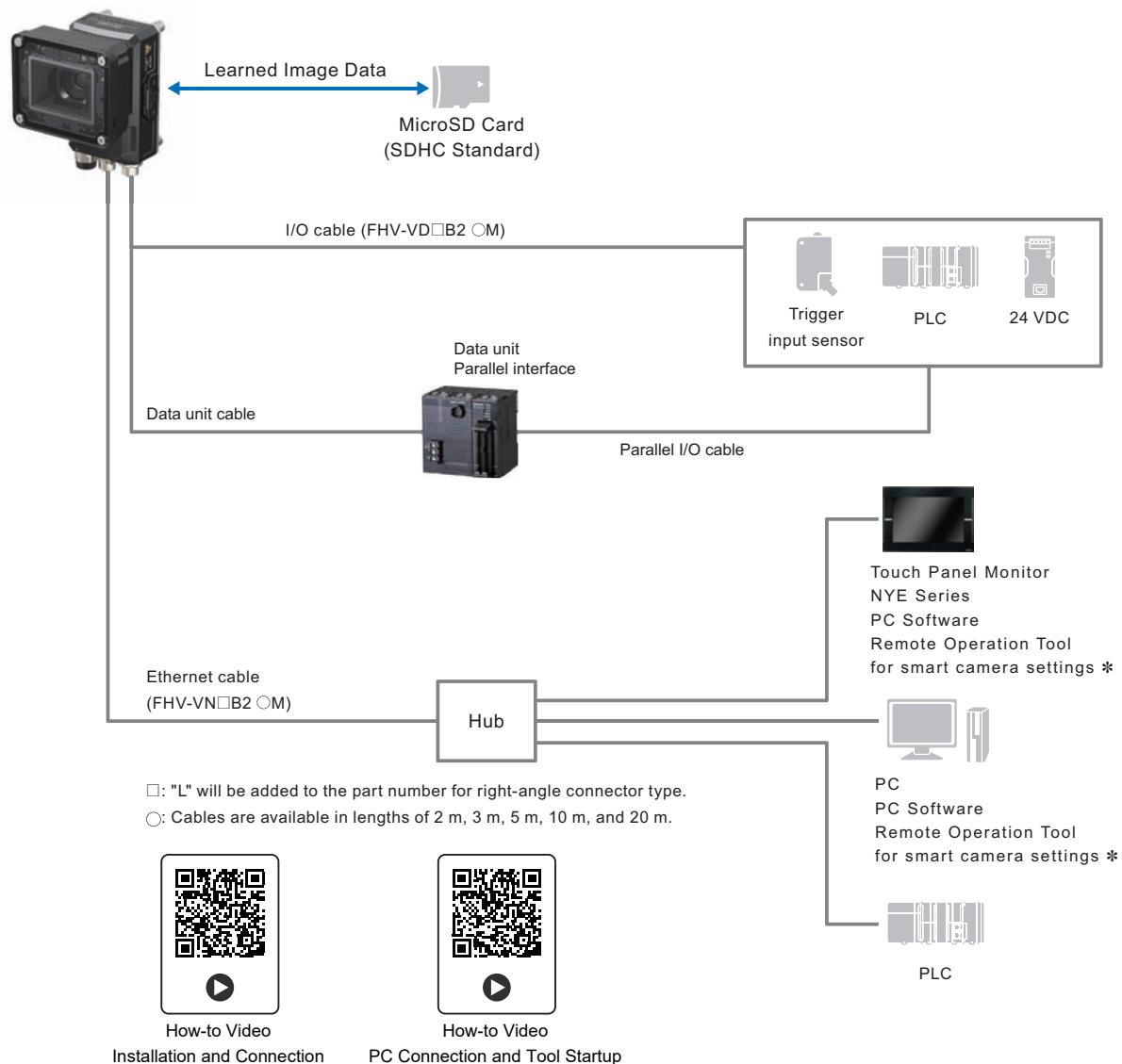
AI Vision Made Easy: Smarter Detection, Simple Setup

- Easy configuration, no expertise required
- Smart Value, Smarter Vision



System Configuration


AI Detection Camera



* After purchasing the product, you can register as a member to download this for free. For details, see the member registration sheet included with the AI Detection Camera.

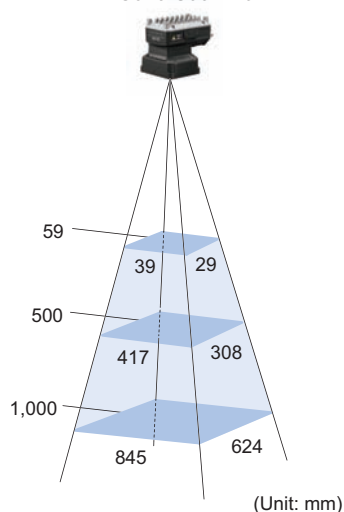
Ordering Information

AI Detection Cameras

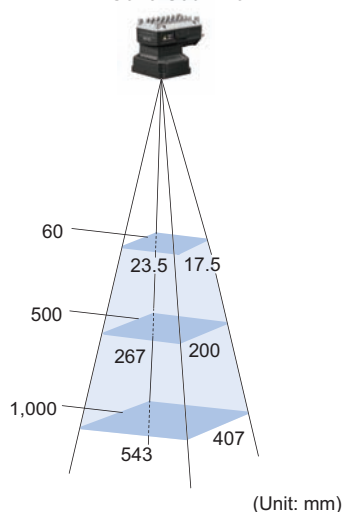
Item	Resolution	Color/ Monochrome	Light color	Camera installation distance (mm)	X field of view × Y field of view (mm)	Model
	1.6 million pixels	Color	White	59 to 1,000	39 × 29 to 845 × 624	FHV7X-C016-S06-W-01
				60 to 1,000	23.5 × 17.5 to 543 × 407	FHV7X-C016-S09-W-01
				60 to 1,000	16.5 × 12.5 to 407 × 305	FHV7X-C016-S12-W-01
				110 to 2,000	27 × 20 to 614 × 460	FHV7X-C016-S16-W-01
				188 to 2,000	30 × 23 to 390 × 290	FHV7X-C016-S25-W-01

Camera installation distance and field of view

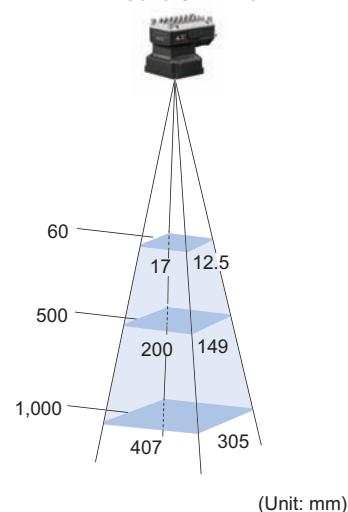
FHV7X-C016-S06-W-01



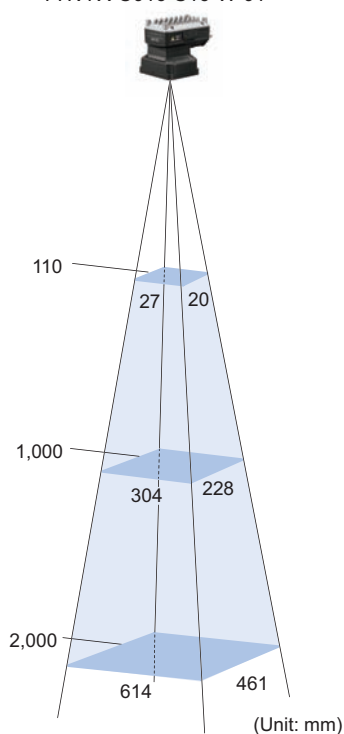
FHV7X-C016-S09-W-01



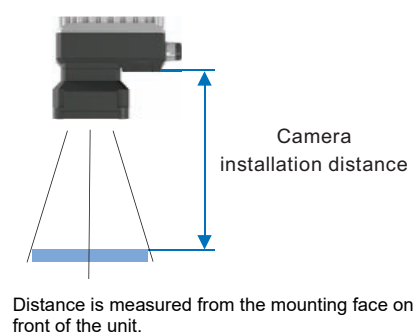
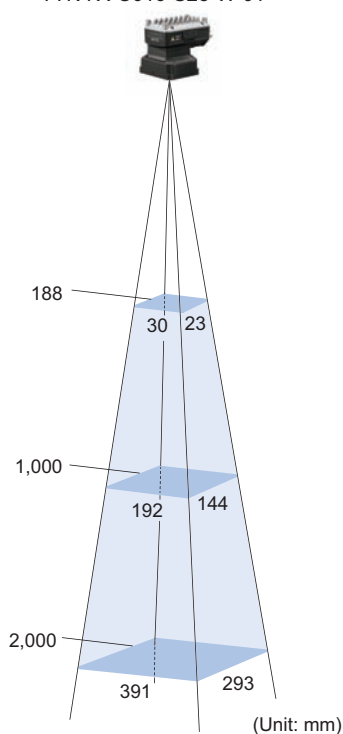
FHV7X-C016-S12-W-01



FHV7X-C016-S16-W-01



FHV7X-C016-S25-W-01



Minimum inspectable size (reference value)





Minimum inspectable size is 180 pixels (X) × 180 pixels (Y). Size in millimeters varies depending on FOV, as is shown in the table below.

Y field of view (mm)	15	35	50	100	150	200	250	300	400	500	600
Minimum inspectable size (mm) *	2.5	6	8	17	25	33	42	50	67	83	100


* Size corresponding to 180 pixels for specified FOV.

FHV7-AI Series




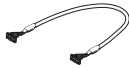

Cables

Item		Cable length	Model
	I/O Cable (Bend Resistant)	2m	FHV-VDB2 2M
		3m	FHV-VDB2 3M
		5m	FHV-VDB2 5M
		10m	FHV-VDB2 10M
		20m	FHV-VDB2 20M
	I/O Cable (Bend Resistant, Right-angle)	2m	FHV-VDLB2 2M
		3m	FHV-VDLB2 3M
		5m	FHV-VDLB2 5M
		10m	FHV-VDLB2 10M
		20m	FHV-VDLB2 20M
	Ethernet Cable (Bend Resistant)	2m	FHV-VNB2 2M
		3m	FHV-VNB2 3M
		5m	FHV-VNB2 5M
		10m	FHV-VNB2 10M
		20m	FHV-VNB2 20M
	Ethernet Cable (Bend Resistant, Right-angle)	2m	FHV-VNLB2 2M
		3m	FHV-VNLB2 3M
		5m	FHV-VNLB2 5M
		10m	FHV-VNLB2 10M
		20m	FHV-VNLB2 20M

Smart Camera Data Unit

Item		Model
	Parallel Iinterface	FHV-SDU10





Smart Camera Data Unit Cable

Item		Cable length	Model
	Smart Camera data unit cable (Bend resistant) *1	2m	FHV-VUB2 2M
		3m	FHV-VUB2 3M
		5m	FHV-VUB2 5M
		10m	FHV-VUB2 10M
		20m	FHV-VUB2 20M
	Smart Camera data unit cable (Bend resistant, Right-angle) *1	2m	FHV-VULB2 2M
		3m	FHV-VULB2 3M
		5m	FHV-VULB2 5M
		10m	FHV-VULB2 10M
		20m	FHV-VULB2 20M
	Parallel I/O Cable	2m	XW2Z-S013-2
		5m	XW2Z-S013-5
	Parallel I/O Cable for Connector-terminal Conversion Unit Connector-Terminal Block Conversion Units can be connected (Terminal Blocks Recommended Products: OMRON XW2R-□34G-T)	0.5m	XW2Z-050EE
		1m	XW2Z-100EE
		1.5m	XW2Z-150EE
		2m	XW2Z-200EE
		3m	XW2Z-300EE
		5m	XW2Z-500EE
	Connector-Terminal Block Conversion Units, General- purpose devices *2	Phillips screw	XW2R-J34GD-T
		Slotted screw (rise up)	XW2R-E34GD-T
		Push-in spring	XW2R-P34GD-T


*1. The FHV-VDB2/VDLB2/VDBX2/VDLBX2 I/O Cable cannot be connected when this cable is used.

*2. Refer to the XW2R datasheet for details.


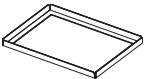

Accessories

Item		Model
	Base Mount for Smart Cameras and Lighting Controllers	FHV-XMT-7
	Waterproof Cap (for replacement)	for Ethernet Connector FHV-XWC-ECN
		for Light Connector FHV-XWC-LCN
	Screw for microSD card cover (for replacement, 10 pcs)	FHV-XSCR-MSD

Accessories

Item	Descriptions			Model
	Industrial Switching Hubs for EtherNet/IP and Ethernet	5 port	Current consumption: 0.07 A	W4S1-05D

Touch Panel Monitor

Item		Screen size	Frame color	Model
	Touch Panel Monitor for FHV7 Smart Camera series *1	15.4 inch	Black	NYE2A-20F11-15WR1200
		15.4 inch	Silver *2	NYE2A-20F11-15WR1300
		12.1 inch	Black	NYE2A-20F11-12WR1200
		12.1 inch	Silver *2	NYE2A-20F11-12WR1300
	High-Pressure Waterproof Attachment (PWA)	15.4 inch	—	NA-15WATW01
		12.1 inch	—	NA-12WATW01
	Anti-reflection Sheets	15.4 inch	—	NA-15WKBA04
		12.1 inch	—	NA-12WKBA04

*1. You need to download and install the PC software for AI Detection Camera FHV7-AI. The PC software can be downloaded for free after purchasing AI Detection Camera FHV7-AI and registering as a member. For details, see the member registration sheet included with the AI Detection Camera. If you have any questions, please ask your Omron representative.

*2. The silver color is a European area limited model.

FHV7-AI Series

Ratings and Specifications

AI Detection Cameras

Item		FHV7X-C016-S06-W-01	FHV7X-C016-S09-W-01	FHV7X-C016-S12-W-01	FHV7X-C016-S16-W-01	FHV7X-C016-S25-W-01
Imaging	CMOS image elements	1/2.9-inch equivalent				
	Color/Monochrome	Color				
	Effective pixels	1440 (H) × 1080 (V)				
	Pixel size	3.45 × 3.45 μm				
	Shutter system	Global Shutter				
	Frame rate (image acquisition time)	224 fps (4.5 ms)				
	Color of light	White				
	LED risk group	Risk group 2				
	Lens focal length	6 mm	9 mm	12 mm	16 mm	25 mm
	Field of view, Installation distance	Refer to the Camera installation distance, X and Y fields of view listed in <i>Ordering Information</i> on page 9.				
External interface	Ethernet	I/F: 1000BASE-T Protocol: Non-procedure (TCP)				
	EtherNet/IP	Yes (Target/Ethernet port)				
	PROFINET	Yes (Slave/Ethernet port), Conformance class A				
	EtherCAT	N/A				
	Serial	N/A				
	Parallel I/O	NPN/PNP common				
	Parallel I/F	High-speed input: 1, General input: 3, High-speed output: 1, General output: 4				
	SD Card I/F	microSD card: SDHC				
Indicator lamps	Main	PWR: Green, RUN: Green, LINK: Yellow, BUSY: Green, OR: Yellow, ERR: Red				
	SD	SD ACCESS: Yellow				
Supply voltage		21.6 VDC to 26.4 VDC When an I/O cable with 20 m is connected, it is 24.0 VDC to 26.4 VDC.				
Current consumption		4.2 A or less				
Usage environment	Ambient temperature range	Operating: 0 to +40°C, Storage: -25 to +65°C (with no icing or condensation)				
	Ambient humidity range	Operating and Storage: 35 to 85%RH (with no condensation)				
	Ambient atmosphere	No corrosive gases				
	Vibration tolerance	Oscillation frequency: 10 to 150 Hz, Half amplitude: 0.15 mm, Vibration direction: X/Y/Z, Sweep time: 8 minute/count, Sweep count: 10				
	Shock resistance	Impact force: 150 m/s ² , Test direction: 6 directions, three time each (up/down, front/behind, left/right)				
	Noise immunity	Fast transient burst <ul style="list-style-type: none"> DC power <ul style="list-style-type: none"> Direct infusion: 2 kV, Pulse rising: 5 ns, Pulse width: 50 ns, Burst continuation time: 15 ms/0.75 ms, Period: 300 ms, Application time: 1 min. I/O line <ul style="list-style-type: none"> Direct infusion: 1 kV, Pulse rising: 5 ns, Pulse width: 50 ns, Burst continuation time: 15 ms/0.75 ms, Period: 300 ms, Application time: 1 min. 				
	Grounding	Class D grounding (100 Ω or less grounding resistance)				
External shape	Dimensions	113.5 mm × 91.0 mm × 103.4 mm (H × W × D)				
	Weight	Approx. 990 g				
	Ingress protection rating	IEC60529 - IP67 When a connector cap removed, IEC60529 - IP40				
	Case material	Housing: Aluminum die-casting (ADC12) Imaging part: Polycarbonate				
Included items		<ul style="list-style-type: none"> Connector cap for Ethernet cable (mounted on the body): 1 Connector cap for an external lighting (mounted on the body): 1 Instruction sheet: 1 Membership registration: 1 General Compliance Information and Instructions for EU: 1 				
Specifications	UI operation	Remote Operation Tool				
	Language	Japanese, English, Simplified Chinese, Traditional Chinese, German, French, Italian, Spanish, Korean, Vietnamese, Polish				

Smart Camera Data Unit

Item		Parallel interface
Model		FHV-SDU10
Input/output specifications	Parallel I/O	Input: 12 Output: 24 (NPN/PNP combined use)
Smart Camera Interface		Special cable to connect No. of connectable cameras: 1
Indicator	Main	POWER: Green, ERROR: Red, RUN: Green, BUSY: Green, CAMERA: Yellow, OR: Yellow
Power supply voltage		21.6 to 26.4 VDC (Note: 24.0 to 26.4 VDC when a data unit cable with 20 m is connected.)
Insulation resistance		Between DC terminal block and FG terminal: 0.5 MΩ (250V Megger)
Current consumption		4.5 A or less
Usage environment	Ambient temperature range	Operating: 0 to +50°C, Storage: -25 to +65°C (with no icing or condensation)
	Ambient humidity range	Operating and storage: 35 to 85%RH (with no condensation)
	Ambient atmosphere	No corrosive gases
	Vibration tolerance	Oscillation frequency: 10 to 150 Hz, Half amplitude: 0.1 mm, Vibration direction: X/Y/Z, Sweep time: 8 minutes, Sweep count: 10 times
	Shock resistance	Impact force: 150 m/s ² , Test direction: 6 directions, Three times each (up/down, front/behind, left/right)
	Noise immunity	Fast transient burst <ul style="list-style-type: none"> DC power <ul style="list-style-type: none"> Direct infusion: 2 kV, Pulse rising: 5 ns, Pulse width: 50 ns, Burst continuation time: 15 ms / 0.75 ms, Period: 300 ms, Application time: 1 minute I/O line <ul style="list-style-type: none"> Coupling clamp: 1 kV, Pulse rising: 5 ns, Pulse width: 50 ns, Burst continuation time: 15 ms / 0.75 ms, Period: 300 ms, Application time: 1 minute
	Grounding	Class D grounding (100 Ω or less grounding resistance) * Existing the third class grounding
External shape	Dimensions	H (90 mm) × W (93 mm) × D (65 mm)
	Weight	Approx. 250 g
	Degree of protection	IEC60529 - IP20
	Case material	PC+ABS, PC
Accessories		<ul style="list-style-type: none"> Instruction sheet: 1 Compliance sheet: 1

I/O cables

Item		FHV-VDB2 2M	FHV-VDLB2 2M	FHV-VDB2 3M	FHV-VDLB2 3M	FHV-VDB2 5M	FHV-VDLB2 5M	FHV-VDB2 10M	FHV-VDLB2 10M	FHV-VDB2 20M	FHV-VDLB2 20M
Cable length		2 m		3 m		5 m		10 m		20 m	
Connector type		Straight connector	Rightangle connector	Straight connector	Rightangle connector	Straight connector	Rightangle connector	Straight connector	Rightangle connector	Straight connector	Rightangle connector
Cable type		Bending resistance cable									
Size	Power line	AWG21									
	Others	AWG26									
Outer diameter		8.8±0.3 mm dia.									
Min. bending radius		Fixed use: 40 mm, Sliding use: 70 mm									
Input/Output signals	Input signals	4 signals: STEP, DI 0 to 2									
	Output signals	5 signals: ERROR, OR, BUSY, READY, STGOUT/SHTOUT									
	RS-232C	2 signals: Transmission data, Reception data (RS-232C communication is not supported on this product.)									
Usage environment	Ambient temperature range	Operating: -10 to +70°C, Storage: -25 to +85°C (with no icing or condensation)									
	Ambient humidity range	Operating & Storage: 0 to 93%RH (With no condensation)									
	Ambient atmosphere	No corrosive gases									
	Vibration tolerance	Oscillation frequency: 10 to 150 Hz, Half amplitude: 0.35 mm, Vibration direction: X/Y/Z, Sweep time: 8 minute/count, Sweep count: 10 times									
	Shock resistance	Impact force: 150 m/s ² , Test direction: 6 directions, three time each (up/down, front/behind, left/right)									
Material		Mold part: Nylon, PVC, Sheath part: PVC									
Weight		Approx. 250 g		Approx. 370 g		Approx. 590 g		Approx. 1,170 g		Approx. 2,310 g	

Ethernet Cables

Item		FHV-VNB2 2M	FHV-VNLB2 2M	FHV-VNB2 3M	FHV-VNLB2 3M	FHV-VNB2 5M	FHV-VNLB2 5M	FHV-VNB2 10M	FHV-VNLB2 10M	FHV-VNB2 20M	FHV-VNLB2 20M
Cable length		2 m		3 m		5 m		10 m		20 m	
Connector type		Straight connector	Rightangle connector	Straight connector	Rightangle connector	Straight connector	Rightangle connector	Straight connector	Rightangle connector	Straight connector	Rightangle connector
Cable type		Bending resistance cable									
Outer diameter		6.7±0.3 mm dia.									
Min. bending radius		Fixed use: 35 mm, Sliding use: 50 mm									
Usage environment	Ambient temperature range	Operating: -10 to +70°C, Storage: -25 to +85°C (with no icing or condensation)									
	Ambient humidity range	Operating & Storage: 0 to 93%RH (With no condensation)									
	Ambient atmosphere	No corrosive gases									
	Vibration tolerance	Oscillation frequency: 10 to 150 Hz, Half amplitude: 0.35 mm, Vibration direction: X/Y/Z, Sweep time: 8 minute/count, Sweep count: 10 times									
	Shock resistance	Impact force: 150 m/s ² , Test direction: 6 directions, three time each (up/down, front/behind, left/right)									
Material		Mold part: PVC, Sheath part: PVC									
Weight		Approx. 140 g		Approx. 200 g		Approx. 310 g		Approx. 590 g		Approx. 1,150 g	

Smart Camera Data Unit Cable

Bending Resistance Cables

Item		FHV-VUB2 2M	FHV-VULB2 2M	FHV-VUB2 3M	FHV-VULB2 3M	FHV-VUB2 5M	FHV-VULB2 5M	FHV-VUB2 10M	FHV-VULB2 10M	FHV-VUB2 20M	FHV-VULB2 20M
Cable length		2 m		3 m		5 m		10 m		20 m	
Connector type		Straight connector	Right angle connector	Straight connector	Right angle connector	Straight connector	Right angle connector	Straight connector	Right angle connector	Straight connector	Right angle connector
Cable type		Bending resistance cable									
Outer diameter		7.8±0.3 mm dia.									
Min. bending radius		Fixed use: 40 mm, Sliding use: 65 mm									
Usage environment	Ambient temperature range	Operating: -10 to +70°C, Storage: -25 to +85°C (with no icing or condensation)									
	Ambient humidity range	Operating & Storage: 0 to 93%RH (With no condensation)									
	Ambient atmosphere	No corrosive gases									
	Vibration tolerance	Oscillation frequency: 10 to 150 Hz, Half amplitude: 0.35 mm, Vibration direction: X/Y/Z, Sweep time: 8 minute/count, Sweep count: 10 times									
	Shock resistance	Impact force: 150 m/s ² , Test direction: 6 directions, three time each (up/down, front/behind, left/right)									
Material		Mold part: PVC, Sheath part: PVC									
Weight		Approx. 200 g		Approx. 290 g		Approx. 470 g		Approx. 900 g		Approx. 1,780 g	

FHV7-AI Series

Touch panel monitor

Model		NYE2A-20F11-15WR1200	NYE2A-20F11-15WR1300	NYE2A-20F11-12WR1200	NYE2A-20F11-12WR1300
LCD	Display device	TFT LCD			
	Screen size	15.4 inches		12.1 inches	
	Resolution	1,280 × 800			
	Backlight Life	50,000 hours min.			
	Touch panel	Analog resistive membrane type			
External Interfaces	Ethernet ports	10/100/1000Mbps Ethernet × 2			
	USB ports	USB 2.0 × 2, USB 3.0 × 1			
	Serial port	RS-232C × 1			
	CFast Card slot	1			
Power Consumption	Allowable power supply voltage range	19.2 to 28.8 VDC (24 VDC ±20%)			
	Power consumption	60 W			
Environment	Ambient temperature	Operating: 0 to +50°C Storage: -20 to +60°C (with no icing or condensation)			
	Ambient humidity	10 to 90% (With no condensation)			
	Vibration resistance (during operation)	Conforms to IEC 60068-2-6. 5 to 8.4 Hz with 3.5 mm half amplitude and 8.4 to 150 Hz with 9.8 m/s² for 100 minutes each in X, Y, and Z directions			
	Shock resistance (during operation)	Conforms to IEC 60028-2-27. 147 m/s² 3 times each in X, Y, and Z directions			
Frame color		Black	Silver *	Black	Silver *
Dimensions		420 × 291 × 69 mm		340 × 244 × 69 mm	
Weight		Approx. 3.2 kg		Approx. 2.4 kg	
Front Panel Protection		IP65			
Mounting		Panel mount, VESA mount			
Accessories		Instruction sheet, Power and IO connector, Mounting Clamps			

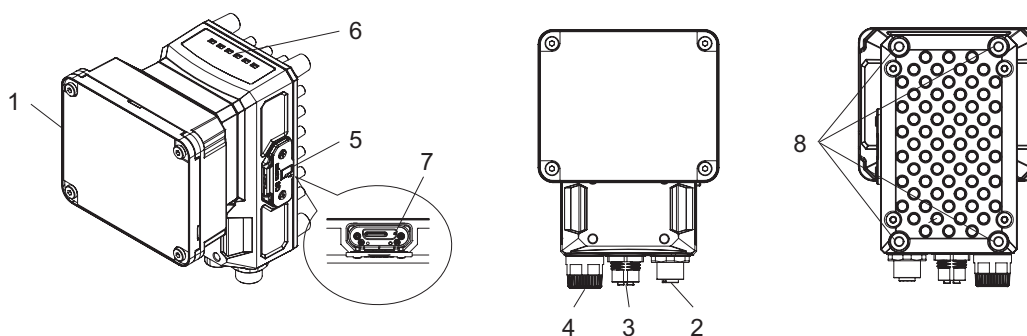
* The silver color is a European area limited model.

Recommended Operational Environment for PC Software Remote Operation Tool

Name	Description
CPU	Intel Pentium Processor (SSE2 or higher, supports AVX2)
OS	<ul style="list-style-type: none"> Windows 10 Pro (32/64-bit) or Enterprise (32/64-bit) Windows 11 Pro (64bit) or Enterprise (64bit)
Memory	8GB (16GB or more recommended)
Hard disk space	2GB or more
Display	Resolution: 1280 x 800 dots or more Color: True Color (32-bit)
Network	10BASE-T (100BASE-TX recommended)

Using the PC Software Remote Operation Tool requires Microsoft .NET Framework 3.5 installed.

Parts and Names



No.	Name		Description
1	Imaging unit		Captures images.
2	I/O cable connector		Use this connector when connecting the smart camera with a power supply or an external device using an I/O cable. Dedicated I/O cable: FHV-VD(L)B2 □□M
3	Ethernet cable connector		Use this connector when connecting the smart camera with a personal computer and so on using an Ethernet cable. Dedicated Ethernet cable: FHV-VN(L)B2 □□M
4	External lighting connector		Use this connector when connecting an external lighting and the external lighting controller. This product does not support connecting to external lighting.
5	Connector to attach microSD card		Use this connector to attach a microSD card. Do not extract/insert the microSD card during processing. Otherwise, measurement time may be influenced or data may be broken.
6	Operation indicator	PWR (Green)	Lights while power is supplied.
		RUN (Green)	Lights when switching to the layout in which the RUN signal output is set ON.
		LINK (Yellow)	Lights when connected with Ethernet equipment and blinks during communication.
		BUSY (Green)	Lights while processing is in progress.
		OR (Yellow)	Lights when the overall judgment output signal is ON.
		ERR (Red)	Lights when an error occurs.
7		SD ACCESS (Yellow)	Lights when accessing to the microSD card.
8	Mounting screw holes		Use them to screw up the smart camera. Recommended tightening torque: 2.3 N·m

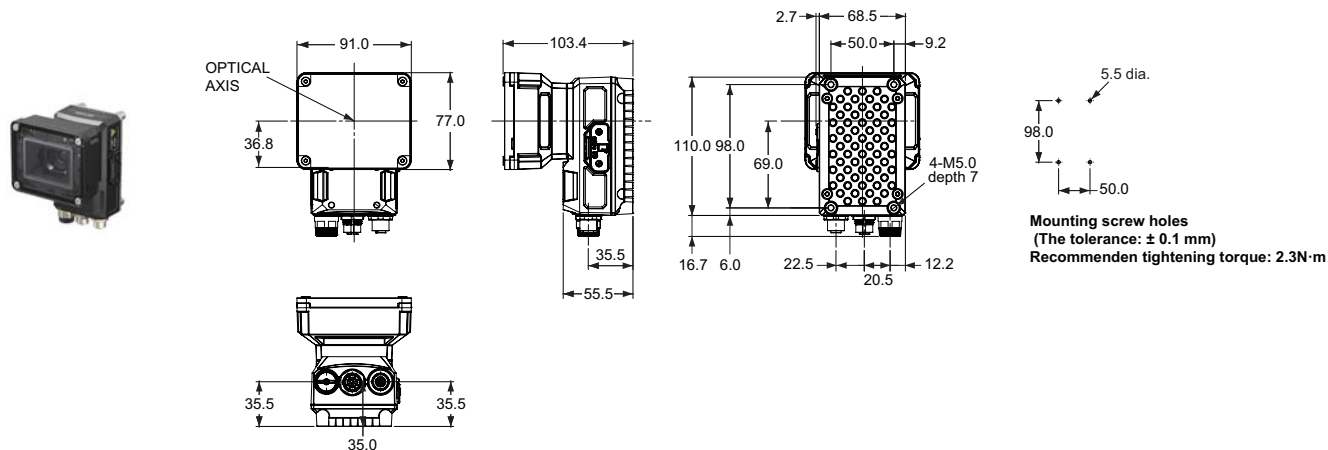
FHV7-AI Series

Dimensions

(Unit: mm)

AI Detection Cameras

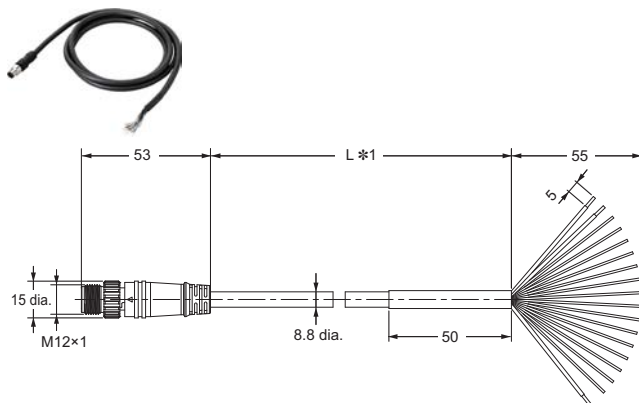
FHV7X-C016-S□□-W-01



Cables

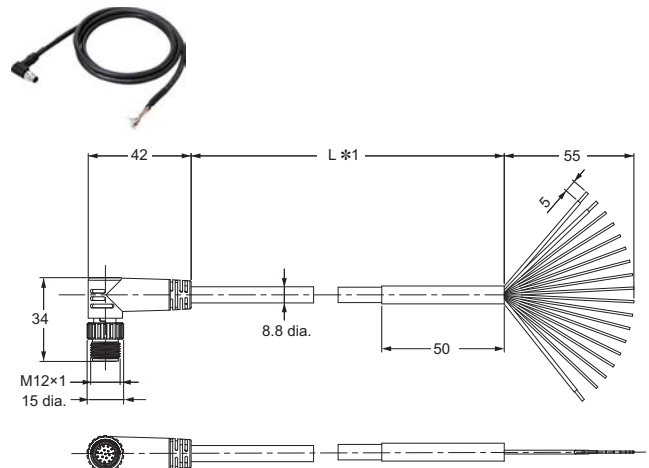
I/O cable (Bend resistant, straight)

FHV-VDB2 □M



I/O cable (Bend resistant, right angle)

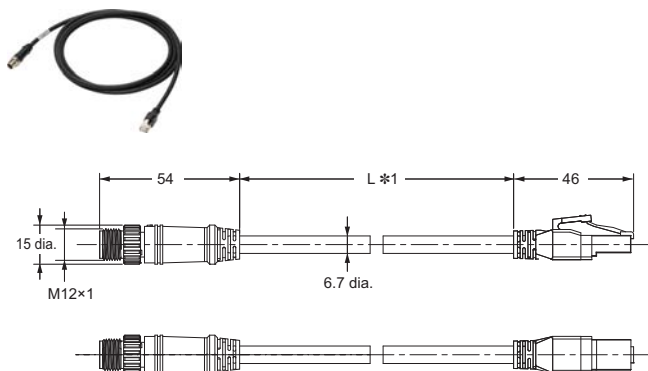
FHV-VDLB2 □M



*1. Cable is available in 2m/3m/5m/10m/20m.

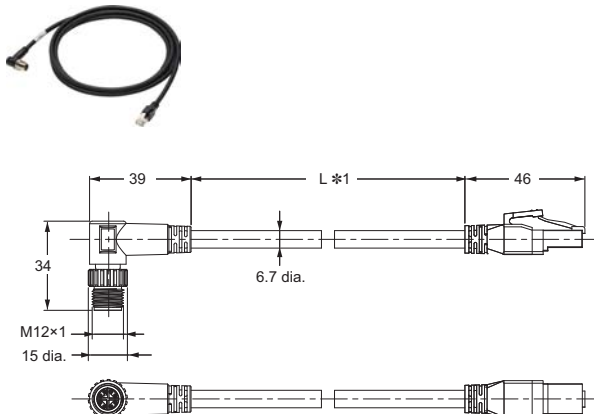
Ethernet cable (Bend resistant, straight)

FHV-VNB2 □M



Ethernet cable (Bend resistant, right angle)

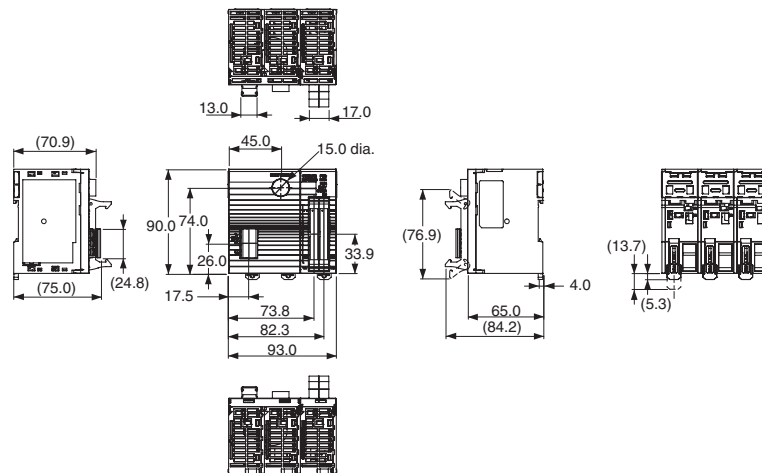
FHV-VNLB2 □M



*1. Cable is available in 2m/3m/5m/10m/20m.

Smart Camera Data Unit

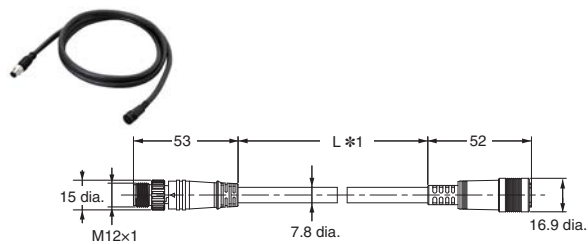
FHV-SDU10



Smart Camera Data Unit Cables

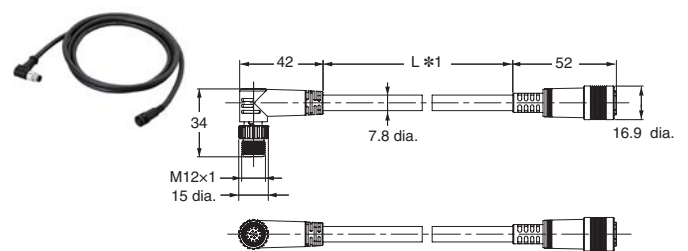
Bending Resistance Cables (Straight)

FHV-VUB2 □M



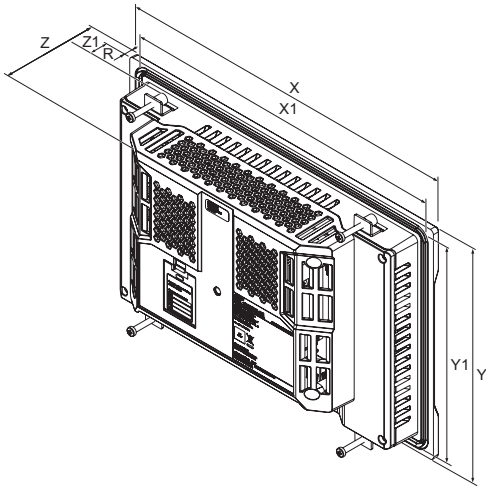
Bending Resistance Cables (Right angle)

FHV-VULB2 □M



*1. Cable is available in 2m/3m/5m/10m/20m.

Touch Panel Monitor
NYE2A-20F11-□□WR1□00



Screen size	Dimensions				Panel cutout dimensions		
	X	Y	Z	R	X1	Y1	Z1
15.4 inch	420 mm	291 mm	69 mm	6.0 mm	392 ⁻⁰ ₊₁ mm	268 ⁻⁰ ₊₁ mm	1.6 to 6.0 mm
12.1 inch	340 mm	244 mm	69 mm	6.0 mm	310 ⁻⁰ ₊₁ mm	221 ⁻⁰ ₊₁ mm	

Related Manuals

Cat. No.	Series	Manual
Z507	FHV7X-C016-S□□-W-01	AI Detection Cameras FHV7-AI Series User's Manual

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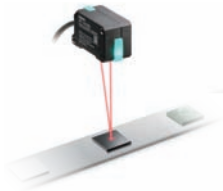
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OMRON's Vision System product lineup

High Performance/cost Low	FH series	OMRON's flagship vision system series that delivers supreme accuracy, speed, and functional diversity. A single unit can provide 360-degree coverage—including of scratches, contamination, dimension, OCR, and even AI.	
	FHV7 series	High-precision smart cameras that integrate lens, lighting, and image processing. High resolutions of up to 12 megapixels and auto optimization ensure sound operation, even in high-mix, high-speed production lines.	
	FQ2 series	These palm-size cameras are easy to set up, perfect for first-time image inspections. They can be quickly used for presence, position, print, and other simple inspections.	
Detect by Height	ZP-L series	Stable detection with initial configuration left intact. Suitable for inspection/detection of around 10 μm to 1 mm.	
		<div>Height/Thickness</div> <div>Positioning/Control</div> <div>Shape/Curves</div> <div>Stroke/Deflection</div> <div>Joints/Counting</div>	

Note: Do not use this document to operate the Unit.

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