

FHV7X Series

Ultimate flexibility to fit ever-changing production scene

- Modular structure for a wide range of applications
- Responding to changes of objects like human eyes
- Raising quality standard without sacrificing cycle time



Model Number Structure

FHV7 Series Model Number Legend

Use this legend when determining the product specifications from the model number. When ordering, use a model number from the table in *Ordering Information*.

FHV7X- - -

1 2 3 4 5 6 7

No.	Classification	Code	Meaning
1	Controller specification	X	64-bit OS model
2	Image sensors	M	Monochrome
		C	Color
3	Resolution	004	0.4 million pixels
		016	1.6 million pixels
		032	3.2 million pixels
		050	5 million pixels
		063	6.3 million pixels
		120	12 million pixels
4	Shutter type	-	Global shutter
		R	Rolling shutter
5	Lens	C	C mount
		H	High-speed lens module (autofocus)
		S	Standard lens module (autofocus)

No.	Classification	Code	Meaning
6	Focal length	06	6 mm
		09	9 mm
		12	12 mm
		16	16 mm
		19	19 mm
		25	25 mm
7	Light color	R	Red
		W	White
		IR	IR
		MC	Multi color

FHV7X Series

Configuration

For the Smart Camera FHV7 series, there are five configurations below by module combinations.

Smart camera		Lens	Internal lighting	Protective structure	Integrated model	Appearance	Configuration
0.4 million pixels 1.6 million pixels 3.2 million pixels 5 million pixels 6.3 million pixels 12 million pixels	FHV7X-□004-□ FHV7X-□016-□ FHV7X-□032-□ FHV7X-□050-□ FHV7X-□063R-□ FHV7X-□120R-□	C mount lens 3Z4SLE SV-□□□□V 3Z4SLE SV-□□□□H	N/A	IP40	FHV7X-□□□□□-C		C mount lens/IP40
				IP67 Waterproof Hoods required FHV-XHD-S FHV-XHD-L	N/A		C mount lens/IP67
0.4 million pixels 1.6 million pixels 3.2 million pixels 6.3 million pixels	FHV7X-□004-□ FHV7X-□016-□ FHV7X-□032-□ FHV7X-□063R-□	FHV lens module FHV-LEM-H□□ FHV-LEM-S□□	N/A	IP40	FHV7X-□□□□□-H□□ FHV7X-□□□□□-S□□		Lens module/IP40
				IP67 Waterproof Hoods required FHV-XHD-LEM	N/A		Lens module/IP67
			FHV-LTM-□□	IP67	FHV7X-□□□□□-H□□-□□ FHV7X-□□□□□-S□□-□□		Lens module /Internal lighting - IP67

Ordering Information

Smart Cameras C Mount Models

Item	Resolution	Model	
		Color	Monochrome
	0.4 million pixels	FHV7X-C004-C	FHV7X-M004-C
	1.6 million pixels	FHV7X-C016-C	FHV7X-M016-C
	3.2 million pixels	FHV7X-C032-C	FHV7X-M032-C
	5 million pixels	FHV7X-C050-C	FHV7X-M050-C
	6.3 million pixels	FHV7X-C063R-C	FHV7X-M063R-C
	12 million pixels	FHV7X-C120R-C	FHV7X-M120R-C

All-in-one Models with Lens Module

Item	Resolution	Lens	Focal length	Model	
				Color	Monochrome
	0.4 million pixels	High-speed lens module (autofocus)	6 mm	FHV7X-C004-H06	FHV7X-M004-H06
			19 mm	FHV7X-C004-H19	FHV7X-M004-H19
		Standard lens module (autofocus)	6 mm	FHV7X-C004-S06	FHV7X-M004-S06
			9 mm	FHV7X-C004-S09	FHV7X-M004-S09
			12 mm	FHV7X-C004-S12	FHV7X-M004-S12
			16 mm	FHV7X-C004-S16	FHV7X-M004-S16
			25 mm	FHV7X-C004-S25	FHV7X-M004-S25
	1.6 million pixels	High-speed lens module (autofocus)	6 mm	FHV7X-C016-H06	FHV7X-M016-H06
			19 mm	FHV7X-C016-H19	FHV7X-M016-H19
		Standard lens module (autofocus)	6 mm	FHV7X-C016-S06	FHV7X-M016-S06
			9 mm	FHV7X-C016-S09	FHV7X-M016-S09
			12 mm	FHV7X-C016-S12	FHV7X-M016-S12
			16 mm	FHV7X-C016-S16	FHV7X-M016-S16
			25 mm	FHV7X-C016-S25	FHV7X-M016-S25
	3.2 million pixels	High-speed lens module (autofocus)	6 mm	FHV7X-C032-H06	FHV7X-M032-H06
			19 mm	FHV7X-C032-H19	FHV7X-M032-H19
		Standard lens module (autofocus)	6 mm	FHV7X-C032-S06	FHV7X-M032-S06
			9 mm	FHV7X-C032-S09	FHV7X-M032-S09
			12 mm	FHV7X-C032-S12	FHV7X-M032-S12
			16 mm	FHV7X-C032-S16	FHV7X-M032-S16
			25 mm	FHV7X-C032-S25	FHV7X-M032-S25
	6.3 million pixels	High-speed lens module (autofocus)	6 mm	FHV7X-C063R-H06	FHV7X-M063R-H06
			19 mm	FHV7X-C063R-H19	FHV7X-M063R-H19
		Standard lens module (autofocus)	6 mm	FHV7X-C063R-S06	FHV7X-M063R-S06
			9 mm	FHV7X-C063R-S09	FHV7X-M063R-S09
			12 mm	FHV7X-C063R-S12	FHV7X-M063R-S12
			16 mm	FHV7X-C063R-S16	FHV7X-M063R-S16
			25 mm	FHV7X-C063R-S25	FHV7X-M063R-S25

FHV7X Series

All-in-one Models with Lens and Lighting Modules

Item	Resolution	Lens	Focal length	Light color	Model	
					Color	Monochrome
	0.4 million pixels	High-speed lens module (autofocus)	6 mm	Multi color	FHV7X-C004-H06-MC	FHV7X-M004-H06-MC
				Red	---	FHV7X-M004-H06-R
				White	FHV7X-C004-H06-W	FHV7X-M004-H06-W
				IR	---	FHV7X-M004-H06-IR
			19 mm	Multi color	FHV7X-C004-H19-MC	FHV7X-M004-H19-MC
				Red	---	FHV7X-M004-H19-R
				White	FHV7X-C004-H19-W	FHV7X-M004-H19-W
				IR	---	FHV7X-M004-H19-IR
		Standard lens module (autofocus)	6 mm	Multi color	FHV7X-C004-S06-MC	FHV7X-M004-S06-MC
				Red	---	FHV7X-M004-S06-R
				White	FHV7X-C004-S06-W	FHV7X-M004-S06-W
				IR	---	FHV7X-M004-S06-IR
			9 mm	Multi color	FHV7X-C004-S09-MC	FHV7X-M004-S09-MC
				Red	---	FHV7X-M004-S09-R
				White	FHV7X-C004-S09-W	FHV7X-M004-S09-W
				IR	---	FHV7X-M004-S09-IR
			12 mm	Multi color	FHV7X-C004-S12-MC	FHV7X-M004-S12-MC
				Red	---	FHV7X-M004-S12-R
				White	FHV7X-C004-S12-W	FHV7X-M004-S12-W
				IR	---	FHV7X-M004-S12-IR
			16 mm	Multi color	FHV7X-C004-S16-MC	FHV7X-M004-S16-MC
				Red	---	FHV7X-M004-S16-R
				White	FHV7X-C004-S16-W	FHV7X-M004-S16-W
				IR	---	FHV7X-M004-S16-IR
			25 mm	Multi color	FHV7X-C004-S25-MC	FHV7X-M004-S25-MC
				Red	---	FHV7X-M004-S25-R
				White	FHV7X-C004-S25-W	FHV7X-M004-S25-W
				IR	---	FHV7X-M004-S25-IR
	1.6 million pixels	High-speed lens module (autofocus)	6 mm	Multi color	FHV7X-C016-H06-MC	FHV7X-M016-H06-MC
				Red	---	FHV7X-M016-H06-R
				White	FHV7X-C016-H06-W	FHV7X-M016-H06-W
				IR	---	FHV7X-M016-H06-IR
			19 mm	Multi color	FHV7X-C016-H19-MC	FHV7X-M016-H19-MC
				Red	---	FHV7X-M016-H19-R
				White	FHV7X-C016-H19-W	FHV7X-M016-H19-W
				IR	---	FHV7X-M016-H19-IR
		Standard lens module (autofocus)	6 mm	Multi color	FHV7X-C016-S06-MC	FHV7X-M016-S06-MC
				Red	---	FHV7X-M016-S06-R
				White	FHV7X-C016-S06-W	FHV7X-M016-S06-W
				IR	---	FHV7X-M016-S06-IR
			9 mm	Multi color	FHV7X-C016-S09-MC	FHV7X-M016-S09-MC
				Red	---	FHV7X-M016-S09-R
				White	FHV7X-C016-S09-W	FHV7X-M016-S09-W
				IR	---	FHV7X-M016-S09-IR
			12 mm	Multi color	FHV7X-C016-S12-MC	FHV7X-M016-S12-MC
				Red	---	FHV7X-M016-S12-R
				White	FHV7X-C016-S12-W	FHV7X-M016-S12-W
				IR	---	FHV7X-M016-S12-IR
			16 mm	Multi color	FHV7X-C016-S16-MC	FHV7X-M016-S16-MC
				Red	---	FHV7X-M016-S16-R
				White	FHV7X-C016-S16-W	FHV7X-M016-S16-W
				IR	---	FHV7X-M016-S16-IR
			25 mm	Multi color	FHV7X-C016-S25-MC	FHV7X-M016-S25-MC
				Red	---	FHV7X-M016-S25-R
				White	FHV7X-C016-S25-W	FHV7X-M016-S25-W
				IR	---	FHV7X-M016-S25-IR

Item	Resolution	Lens	Focal length	Light color	Model	
					Color	Monochrome
	3.2 million pixels	High-speed lens module (autofocus)	6 mm	Multi color	FHV7X-C032-H06-MC	FHV7X-M032-H06-MC
				Red	---	FHV7X-M032-H06-R
				White	FHV7X-C032-H06-W	FHV7X-M032-H06-W
				IR	---	FHV7X-M032-H06-IR
			19 mm	Multi color	FHV7X-C032-H19-MC	FHV7X-M032-H19-MC
				Red	---	FHV7X-M032-H19-R
				White	FHV7X-C032-H19-W	FHV7X-M032-H19-W
				IR	---	FHV7X-M032-H19-IR
		Standard lens module (autofocus)	6 mm	Multi color	FHV7X-C032-S06-MC	FHV7X-M032-S06-MC
				Red	---	FHV7X-M032-S06-R
				White	FHV7X-C032-S06-W	FHV7X-M032-S06-W
				IR	---	FHV7X-M032-S06-IR
			9 mm	Multi color	FHV7X-C032-S09-MC	FHV7X-M032-S09-MC
				Red	---	FHV7X-M032-S09-R
				White	FHV7X-C032-S09-W	FHV7X-M032-S09-W
				IR	---	FHV7X-M032-S09-IR
			12 mm	Multi color	FHV7X-C032-S12-MC	FHV7X-M032-S12-MC
				Red	---	FHV7X-M032-S12-R
				White	FHV7X-C032-S12-W	FHV7X-M032-S12-W
				IR	---	FHV7X-M032-S12-IR
			16 mm	Multi color	FHV7X-C032-S16-MC	FHV7X-M032-S16-MC
				Red	---	FHV7X-M032-S16-R
				White	FHV7X-C032-S16-W	FHV7X-M032-S16-W
				IR	---	FHV7X-M032-S16-IR
			25 mm	Multi color	FHV7X-C032-S25-MC	FHV7X-M032-S25-MC
				Red	---	FHV7X-M032-S25-R
				White	FHV7X-C032-S25-W	FHV7X-M032-S25-W
				IR	---	FHV7X-M032-S25-IR
	6.3 million pixels	High-speed lens module (autofocus)	6 mm	Multi color	FHV7X-C063R-H06-MC	FHV7X-M063R-H06-MC
				Red	---	FHV7X-M063R-H06-R
				White	FHV7X-C063R-H06-W	FHV7X-M063R-H06-W
				IR	---	FHV7X-M063R-H06-IR
			19 mm	Multi color	FHV7X-C063R-H19-MC	FHV7X-M063R-H19-MC
				Red	---	FHV7X-M063R-H19-R
				White	FHV7X-C063R-H19-W	FHV7X-M063R-H19-W
				IR	---	FHV7X-M063R-H19-IR
		Standard lens module (autofocus)	6 mm	Multi color	FHV7X-C063R-S06-MC	FHV7X-M063R-S06-MC
				Red	---	FHV7X-M063R-S06-R
				White	FHV7X-C063R-S06-W	FHV7X-M063R-S06-W
				IR	---	FHV7X-M063R-S06-IR
			9 mm	Multi color	FHV7X-C063R-S09-MC	FHV7X-M063R-S09-MC
				Red	---	FHV7X-M063R-S09-R
				White	FHV7X-C063R-S09-W	FHV7X-M063R-S09-W
				IR	---	FHV7X-M063R-S09-IR
			12 mm	Multi color	FHV7X-C063R-S12-MC	FHV7X-M063R-S12-MC
				Red	---	FHV7X-M063R-S12-R
				White	FHV7X-C063R-S12-W	FHV7X-M063R-S12-W
				IR	---	FHV7X-M063R-S12-IR
			16 mm	Multi color	FHV7X-C063R-S16-MC	FHV7X-M063R-S16-MC
				Red	---	FHV7X-M063R-S16-R
				White	FHV7X-C063R-S16-W	FHV7X-M063R-S16-W
				IR	---	FHV7X-M063R-S16-IR
			25 mm	Multi color	FHV7X-C063R-S25-MC	FHV7X-M063R-S25-MC
				Red	---	FHV7X-M063R-S25-R
				White	FHV7X-C063R-S25-W	FHV7X-M063R-S25-W
				IR	---	FHV7X-M063R-S25-IR

FHV7X Series

Ratings and Specifications

Smart Camera

Item		Model	FHV7X-M004-C	FHV7X-C004-C	FHV7X-M016-C	FHV7X-C016-C	FHV7X-M032-C	FHV7X-C032-C	FHV7X-M050-C	FHV7X-C050-C	FHV7X-M063R-C	FHV7X-C063R-C	FHV7X-M120R-C	FHV7X-C120R-C	
Specifications	Operation Mode	Standard	Yes												
		Double speed multi-input	Yes												
		Non-stop adjustment mode	Yes												
	Parallel processing		Yes												
	Possible No. of captured images		256		64		36		25		19		10		
	Possible No. of logging images to Smart Camera		645		161		79		50		39		19		
	Possible No. of scenes		128 *1												
	UI operation		Remote Operation Tool												
Setup		Create the processing flow using Flow editing.													
Language		Japanese, English, Simplified Chinese, Traditional Chinese, German, French, Italian, Spanish, Korean, Vietnamese, Polish													
Imaging	CMOS Image elements		1/2.9-inch equivalent		1/2.9-inch equivalent		1/1.8-inch equivalent		2/3-inch equivalent		1/1.8-inch equivalent		1/1.7-inch equivalent		
	Color/Monochrome		Monochrome	Color	Monochrome	Color	Monochrome	Color	Monochrome	Color	Monochrome	Color	Monochrome	Color	
	Effective pixels (H x V)		720 × 540		1440 × 1080		2048 × 1536		2448 × 2048		3072 × 2048		4000 × 3000		
	Pixel size		6.9 × 6.9 μm		3.45 × 3.45 μm		3.45 × 3.45 μm		3.45 × 3.45 μm		2.4 × 2.4 μm		1.85 × 1.85 μm		
	Imaging area H × V (opposing corner)		5.0 × 3.8 (6.3 mm)		5.0 × 3.8 (6.3 mm)		7.1 × 5.3 (8.9 mm)		8.5 × 7.1 (11.1 mm)		7.4 × 5.0 (8.9 mm)		7.4 × 5.6 (9.3 mm)		
	Shutter system		Global Shutter									Rolling shutter (Global reset mode compatible)			
	Shutter function		Electronic shutter: Shutter speed can be set from 1 μs to 100 ms.									Electronic shutter: Shutter speed can be set from 55 μs to 100 ms.		Electronic shutter: Shutter speed can be set from 84 μs to 100 ms.	
	Partial function		4 to 540 lines (4-line increments)		4 to 1080 lines (4-line increments)		4 to 1536 lines (4-line increments)		4 to 2048 lines (4-line increments)		4 to 2048 lines (4-line increments)		4 to 3000 lines (4-line increments)		
	Frame rate (image acquisition time)		430 fps (2.3 ms)		224 fps (4.5 ms)		55 fps (18.0 ms)		35 fps (28.0 ms)		59 fps (16.7 ms)		19 fps (25.0 ms)		
	Lens mounting		C mount												
	Field of view, Installation distance		Selecting a lens according to the field of view and installation distance												
External Interface	Serial		RS-232C × 1												
	Ethernet		Protocol: Non-procedure (TCP/UDP) I/F: 1000BASE-T × 1												
	EtherNet/IP		Yes (Target/Ethernet port)												
	PROFINET		Yes (Slave/Ethernet port), Conformance class A												
	EtherCAT		Yes (Slave) (Smart Camera Data Unit FHV-SDU30 only supports.)												
	Parallel I/O		NPN/PNP common												
	Parallel I/O	Input signals	4 signals • STEP (Measurement trigger input) • DI 0 to 2 (Command input signal)												
		Output signals	5 signals • ERROR (ON when there is an error) • OR (Overall Judgement Result) • BUSY (Processing in progress) • READY (ON when Image input is allowed) • STGOUT/SHTOUT (Strobe trigger signal/Shutter output signal)												
	Encoder I/F		Yes (Smart Camera Data Unit FHV-SDU10 only supports.)												
	Monitor I/F		N/A												
USB I/F		N/A													
SD Card I/F		microSD card: SDHC × 1													
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			With lighting modules: 4.2 A or less Without lighting modules: 0.60 A												

*1. The number of scenes can be increased up to 1,024 with the Conversion scene group data tool.

Item		Model	FHV7X-M004-C	FHV7X-C004-C	FHV7X-M016-C	FHV7X-C016-C	FHV7X-M032-C	FHV7X-C032-C	FHV7X-M050-C	FHV7X-C050-C	FHV7X-M063R-C	FHV7X-C063R-C	FHV7X-M120R-C	FHV7X-C120R-C
Usage Environment	Ambient temperature range	Operating: 0 to +40°C, Storage: -25 to +65°C (with no icing or condensation)												
	Ambient humidity range	Operating & Storage: 35 to 85%RH (With no condensation)												
	Ambient atmosphere	No corrosive gases												
	Vibration tolerance	Oscillation frequency: 10 to 150Hz, Half amplitude: 0.35 mm, Vibration direction: X/Y/Z, Sweep time: 8 minute/count, Sweep count: 10 times With standard lens modules, FHV-LEM-S: Half amplitude: 0.15 mm (Others are the same as above.)												
	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 • DC power Direct infusion: 2kV, 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 Direct infusion: 1kV, 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) *2												
External shape	Dimensions	110 mm × 68.5 mm × 55.5 mm (H × W × D)												
	Weight	Approx. 670 g												
	Degree of protection	With lighting modules or waterproof hoods: IEC60529 - IP67 (except a connector cap removed) Other than the above: IEC60529 - IP40												
	Case material	Aluminum die-casting (ADC12)												
Accessories		- Connector cap for Ethernet cable (mounted on the body): 1 - Connector cap for an external lighting (mounted on the body): 1 - C mount cap (mounted on the body): 1 - C mount cover (mounted on the body): 1 - Instruction sheet: 1 - Membership registration: 1 - General Compliance Information and Instructions for EU: 1												

*2. Existing the third class grounding

FHV7X Series

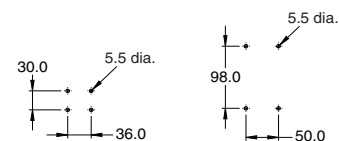
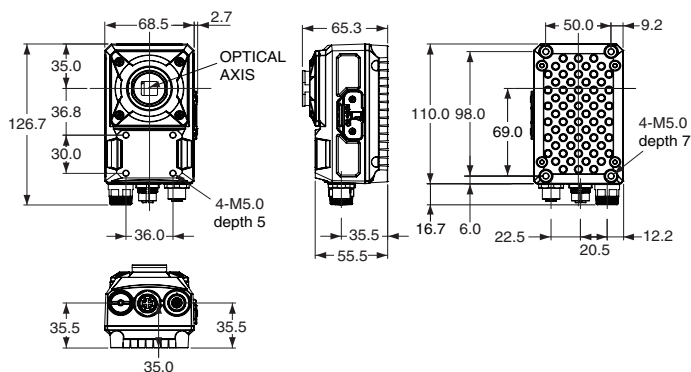
Dimensions

(Unit: mm)

Smart Cameras

C Mount Models

FHV7X-□□□□□-C

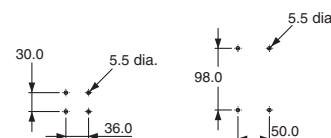
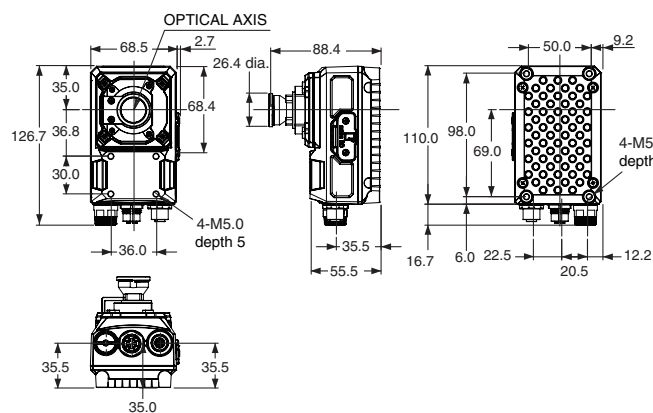


Mounting screw holes
(The tolerance: ± 0.1 mm)
Recommend tightening torque: 2.3N·m

All-in-one Models with Lens Module

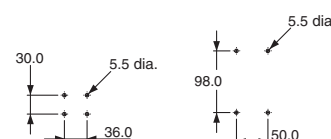
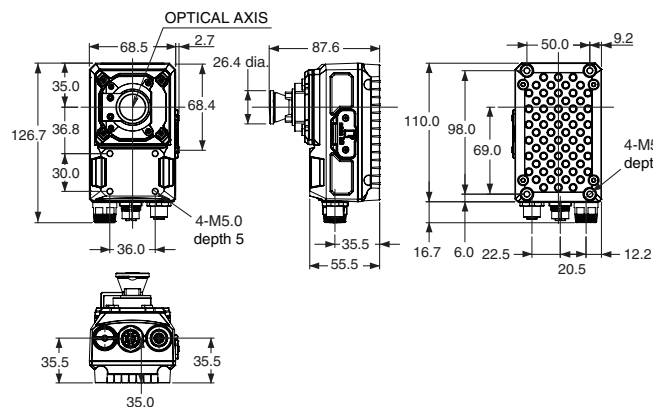
High-speed Lens Modules

FHV7X-□□□□□-H06



Mounting screw holes
(The tolerance: ± 0.1 mm)
Recommend tightening torque: 2.3N·m

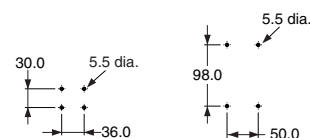
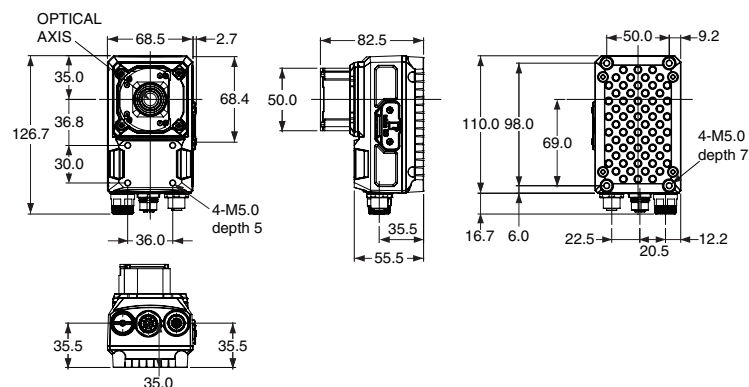
FHV7X-□□□□□-H19



Mounting screw holes
(The tolerance: ± 0.1 mm)
Recommend tightening torque: 2.3N·m

Standard Lens Modules

FHV7X-□□□□□-S□□

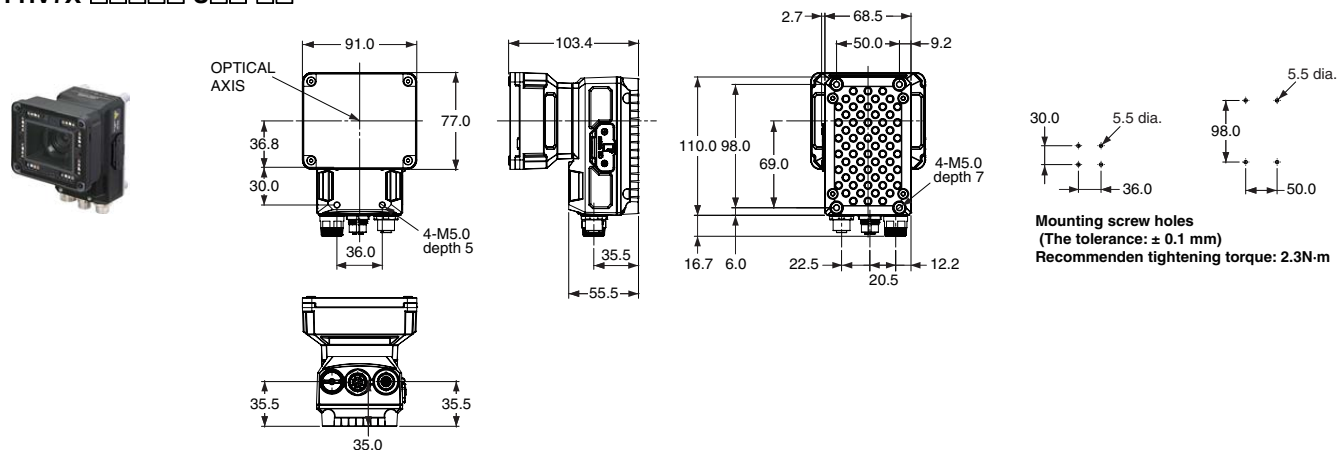


Mounting screw holes
(The tolerance: ± 0.1 mm)
Recommend tightening torque: 2.3N·m

All-in-one Models with Lens and Lighting Modules

FHV7X-□□□□□-H□□-□□/

FHV7X-□□□□□-S□□-□□



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