

Product Discontinuation		Recommended Replacement	
Image Sensor		Image Sensor	
	FH-2051		FH-2053
	FH-5051		FH-5053
	FH-5551		FH-5553
	FH-2052		FH-2053
	FH-5052		FH-5053
	FH-5552		FH-5553

[Final order entry date]

The end of August, 2028
The discontinuation date is subject to change due to the availability of parts and materials. Thank you for your understanding in advance.

[Date of The Last Shipping]

The end of November, 2028

[Scheduled date of maintenance close]

The end of August, 2033

[Caution on recommended replacement]

Processing performances such as processing time of processing item and communication response time will change because of replacement with the recommended replacement.
The operation of the equipment may be affected by it.
When replacing, please check the operation of the equipment.

About available application software versions

Only Ver.6.80 or later application software can be used with the recommended replacement.
Do not downgrade it to Ver.6.73 or earlier version.

If you are using customization software

Customized software designed for the product discontinuation cannot be operated with F the recommended replacement. Please contact our sales department.

[Difference from discontinued product]

Recommended replacement Model	Body Color	Dimensions	Wire connection	Mounting Dimensions	Characteristics	Operation ratings	Operation methods
FH-2053	**	**	**	**	*	*	**
FH-2053-10	**	**	**	**	*	*	**
FH-2053-20	**	**	**	**	*	*	**
FH-5053	**	**	**	**	*	*	**
FH-5053-10	**	**	**	**	*	*	**
FH-5053-20	**	**	**	**	*	*	**
FH-5553	**	**	**	**	*	*	**
FH-5553-10	**	**	**	**	*	*	**
FH-5553-20	**	**	**	**	*	*	**

** : Compatible

* : The change is a little/Almost compatible

-- : Not compatible

- : No corresponding specification

[Product Discontinuation and recommended replacement]

Product discontinuation	Recommended replacement
FH-2051	FH-2053
FH-2051-10	FH-2053-10
FH-2051-20	FH-2053-20
FH-5051	FH-5053
FH-5051-10	FH-5053-10
FH-5051-20	FH-5053-20
FH-5551	FH-5553
FH-5551-10	FH-5553-10
FH-5551-20	FH-5553-20
FH-2052	FH-2053
FH-2052-10	FH-2053-10
FH-2052-20	FH-2053-20
FH-5052	FH-5053
FH-5052-10	FH-5053-10
FH-5052-20	FH-5053-20
FH-5552	FH-5553
FH-5552-10	FH-5553-10
FH-5552-20	FH-5553-20

[Body color]

Product discontinuation FH-2051-□ / FH-5051-□ / FH-5551-□ FH-2052-□ / FH-5052-□ / FH-5552-□	Recommendable replacement FH-2053-□ / FH-5053-□ / FH-5553-□
No change	
	

[Dimensions]

Product discontinuation FH-2051-□ / FH-5051-□ / FH-5551-□ FH-2052-□ / FH-5052-□ / FH-5552-□	Recommendable replacement FH-2053-□ / FH-5053-□ / FH-5553-□
No change	

[Wire connection]

Product discontinuation FH-2051-□ / FH-5051-□ / FH-5551-□ FH-2052-□ / FH-5052-□ / FH-5552-□	Recommendable replacement FH-2053-□ / FH-5053-□ / FH-5553-□
No change	

[Mounting dimensions]

Product discontinuation FH-2051-□ / FH-5051-□ / FH-5551-□ FH-2052-□ / FH-5052-□ / FH-5552-□	Recommendable replacement FH-2053-□ / FH-5053-□ / FH-5553-□
No change	

[Characteristics]

Item		Product discontinuation FH-2051-□ / FH-5051-□ / FH-5551-□ FH-2052-□ / FH-5052-□ / FH-5552-□	Recommendable replacement FH-2053-□ / FH-5053-□ / FH-5553-□
Parallel IO polarity		NPN/PNP (common)	
Memory, Storage		FH-2051-□ : 8GB RAM, 64GB ROM FH-5051-□ : 8GB RAM, 64GB ROM FH-5551-□ : 32GB RAM, 64GB ROM FH-2052-□ : 8GB RAM, 64GB ROM FH-5052-□ : 8GB RAM, 64GB ROM FH-5552-□ : 32GB RAM, 128GB ROM	FH-2053-□ : 16GB RAM, 64GB ROM FH-5053-□ : 16GB RAM, 64GB ROM FH-5553-□ : 32GB RAM, 128GB ROM
Number of Core		FH-2051-□ : 2 FH-5051-□ : 4 FH-5551-□ : 4 FH-2052-□ : 2 FH-5052-□ : 8 FH-5552-□ : 8	FH-2053-□ : 2 FH-5053-□ : 8 FH-5553-□ : 8
AI Processing Items			
	AI Defect Inspection (*1)	FH-205□-□ : No FH-505□-□ : No FH-555□-□ : Yes	
	AI Scratch Detect Filter (*2)	FH-205□-□ : No FH-505□-□ : Yes FH-555□-□ : Yes	
	AI Fine Matching	Yes	
Main Functions			
Operation Mode	Standard	Yes	
	Double Speed Multi-input	Yes	
	Non-stop adjustment mode	Yes	
	Multi-line random-trigger mode	Yes (Maximum 8 lines) According to the CPU performance, FH-2000 series is recommended to use up to two lines in this mode.	
Parallel Processing		Yes	
Number of Connectable Camera		FH-205□ / FH-505□ / FH-555□ : 2 FH-205□-10 / FH-505□-10 / FH-555□-10 : 4 FH-205□-20 / FH-505□-20 / FH-555□-20 : 8	
Supported Camera	FH-S series camera	All of the FH-S series cameras are connectable. (*3)	
	FZ-S series camera	All of the FZ-S series cameras are connectable.	
Camera I/F		OMRON I/F	
Possible Number of Captured Images		Refer to About Number of Logging Images or About Max. Number of Loading Images during Multi-input in the Vision System FH/FHV series User's Manual (Cat.No. Z365).	
Possible Number of Logging Images to Sensor Controller			

Item			Product discontinuation FH-2051-□ / FH-5051-□ / FH-5551-□ FH-2052-□ / FH-5052-□ / FH-5552-□	Recommendable replacement FH-2053-□ / FH-5053-□ / FH-5553-□
	Possible Number of Scenes		128	
	Operating on UI	USB Mouse	Yes (wired USB and driver is unnecessary type)	
		Touch Panel	Yes (RS-232C/USB connection: FH-MT12)	
	Setup		Create the processing flow using Flow editing.	
	Language		English, Japanese, Simplified Chinese, Traditional Chinese, Korean, German, French, Spanish, Italian, Vietnamese, Polish	
External Interface				
	Serial Communication		RS-232C × 1	
	Ethernet Communication		Protocol: Non-procedure (TCP/UDP) Physical layer: 1000BASE-T × 2	
	EtherNet/IP Communication		Yes (Target/Ethernet port)	
	PROFINET Communication		Yes (Slave/Ethernet port) Conformance class A	
	EtherCAT Communication		Yes (slave) Physical layer: 100BASE-TX	
	Parallel I/O		12 inputs/31 outputs : Use 1 Line. Operation mode: Except Multi-line random-trigger mode. 17 inputs/37 outputs : Use 2 Line. Operation mode: Multi-line random-trigger mode. 14 inputs/29 outputs : Use 3 to 4 Line. Operation mode: Multi-line random-trigger mode. 19 inputs/34 outputs : Use 5 to 8 Line. Operation mode: Multi-line random-trigger mode.	
	Encoder Interface		Input voltage: 5 V ± 5% Signal: RS-422A Line Driver Level Phase A/B/Z: 1 MHz	
	Monitor Interface		DVI-I output (Analog RGB & DVI-D single link) x 1 · DVI connection (Recognize the recommended resolution automatically) · RGB connection (Resolution XGA 1024×768 dot)	
	USB I/F		USB2.0 host x 2 (BUS Power: Port 5 V/0.5 A) USB3.0 host x 2 (BUS Power: Port 5 V/0.9 A)	
	SD Card I/F		SDHC × 1	
Indicator Lamps				
	Main		POWER: Green, ERROR: Red, RUN: Green, ACCESS: Yellow	
	Ethernet		NET RUN1: Green, LINK/ACT1: Yellow, NET RUN2: Green, LINK/ACT2: Yellow	
	SD Card		SD POWER: Green, SD BUSY: Yellow	
	EtherCAT		ECAT RUN: Green, LINK/ACT IN: Green, LINK/ACT OUT: Green, ECAT ERR: Red	
Supply Voltage			20.4 VDC to 26.4 VDC	
Current consumption				

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• When connecting the following cameras - Intelligent compact digital CMOS camera - Shortwave Infrared (SWIR) Camera • When connecting the following lighting or lighting controllers without an external power supply - FLV-TCC1 - FLV-TCC4 - FLV-TCC3HB - FLV-TCC1EP - FL-TCC1 • When connecting the following lighting or lighting controllers - FL-TCC1PS - FL-MD□MC		FH-205□ : 4.6A max. FH-205□-10 : 6.6A max. FH-205□-20 : 11.2A max. FH-505□ / FH-555□ : 5.6A max. FH-505□-10 / FH-555□-10 : 7.7A max. FH-505□-20 / FH-555□-20 : 12.2A max.	
Other than above		FH-205□ : 3.5A max. FH-205□-10 : 4.3A max. FH-205□-20 : 6.3A max. FH-505□ / FH-555□ : 4.5A max. FH-505□-10/FH-555□-10 : 5.5A max. FH-505□-20/FH-550□-20 : 7.3A max.	
Built-in FAN		Yes	
Usage Environment			
Ambient temperature range		FH-205□-□ : Operating: 0°C to +50°C Storage: -20 to +65°C (with no icing or condensation) FH-505□-□ / FH-555□-□ : Operating: 0°C to +45°C Storage: -20 to +65°C (with no icing or condensation)	
Ambient humidity range		Operating and storage: 35 to 85% (with no condensation)	
Ambient atmosphere		No corrosive gases	
Vibration tolerance		Oscillation frequency: 10 to 150 Hz, Half amplitude: 0.1 mm, Acceleration: 15 m/s ² Sweep time: 8 minute/count, Sweep count: 10, Vibration direction: up and down/front and behind/left and right	
Shock resistance		Impact force: 150 m/s ² Test direction: up and down/front and behind/left and right	
Noise immunity	Fast Transient Burst	• DC power: 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: 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) (*4)	
External Features			
Dimensions		190 mm x 115 mm x 182.5 mm Note Height: Including the rubber at the base.	

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	Weight	FH-2051 : Approx.3.0kg FH-2051-□ : Approx.3.2kg FH-2052 / FH-2053 : Approx.3.4kg FH-2052-□ / FH-2053-□ : Approx.3.6kg FH-505□ / FH-555□ : Approx.3.4kg FH-505□-□ / FH-555□-□ : Approx.3.6kg	
	Degree of protection	IEC60529 IP20	
	Case material	Cover: zinc-plated steel plate, Side plate: aluminum (A6063)	

- (*1). Optional FH Application Software (FH-UMLIC-08 AI Defect Inspection Software Installer) is required.
- (*2). Optional FH Application Software (FH-UMAI1 Scratch Detect AI Software Installer) is required.
- (*3). When 12 megapixels/20.4 megapixels cameras with FH-205□-20 / FH-505□-20 / FH-555□-20 : Max. 4 cameras are connectable.
 When use except 12 megapixels/20.4 megapixels cameras with FH-205□-20 / FH-505□-20 / FH-555□-20 : Max. 8 cameras are connectable.
- (*4). Existing the third class grounding

[Operation ratings / Operation methods]

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No major changes. For details on how to operate, please refer to the following manual. •Vision System User's Manual (Z365) •Vision System User's Manual (Communications Settings) (Z342) •Vision System Processing Item Function Reference Manual (Z341) •Vision System Hardware Setup Manual (Z366) •Vision System Operation Manual (Sysmac Studio) (Z343) •Vision System Macro Customize Functions Programming Manual (Z367)	

Specifications and prices in this product news are as of the issue date and are subject to change without notice.
 Only main changes in specifications are described in this document. Please be sure to read the relevant catalogs, datasheets, product specifications, instructions, and manuals for precautions and necessary information when using products.
 The information on the recommended substitute products from other companies is what our company is aware of as of the issuance of this notice. Regarding the end of production timing for the recommended alternative product, the possibility of continuing supply, the specifications, compatibility, and others, as well as other details, please inquire with your business partner and make your own decision at your company on whether to adopt the recommended alternative product.