

Product Discontinuation

Image Sensor



FH-L551
FH-L551-10



Recommended Replacement

Image Sensor

FH-L552
FH-L552-10

[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 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-L552	**	**	**	**	*	*	**
FH-L552-10	**	**	**	**	*	*	**

** : Compatible

* : The change is a little/Almost compatible

-- : Not compatible

- : No corresponding specification

[Product Discontinuation and recommended replacement]

Product discontinuation	Recommended replacement
FH-L551	FH-L552
FH-L551-10	FH-L552-10

[Body color]

Product discontinuation FH-L551 / FH-L551-10	Recommendable replacement FH-L552 / FH-L552-10
No change	
	

[Dimensions]

Product discontinuation FH-L551 / FH-L551-10	Recommendable replacement FH-L552 / FH-L552-10
No change	

[Wire connection]

Product discontinuation FH-L551 / FH-L551-10	Recommendable replacement FH-L552 / FH-L552-10
No change	

[Mounting dimensions]

Product discontinuation FH-L551 / FH-L551-10	Recommendable replacement FH-L552 / FH-L552-10
No change	

[Characteristics]

Item		Product discontinuation FH-L551 / FH-L551-10	Recommendable replacement FH-L552 / FH-L552-10
Parallel IO polarity		NPN/PNP (common)	
Memory, Storage		4GB RAM、32GB ROM	
AI Processing Items			
	AI Defect Inspection	No	
	AI Fine Matching	Yes (*1)	
Main Functions			
Operation Mode	Standard	Yes	
	Double Speed Multi-input	Yes	
	Non-stop adjustment mode	Yes	
	Multi-line random-trigger mode	No	
Parallel Processing		Yes	
Number of Connectable Camera		FH-L55□ :2 FH-L55□-10 :4	
Supported Camera	FH-S series camera	FH-S series cameras except FH-SM21R/FH-SC21R are connectable.	
	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			
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 × 1	
	EtherNet/IP Communication	Yes (Target/Ethernet port)	
	PROFINET Communication	Yes (Slave/Ethernet port) Conformance class A	
	EtherCAT Communication	None	

Item		Product discontinuation FH-L551 / FH-L551-10	Recommendable replacement FH-L552 / FH-L552-10
	Parallel I/O	High-speed input: 1 Normal speed: 9 High-speed output: 4 Normal speed: 23	
	Encoder Interface	None	
	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 1 (BUS Power: Port 5 V/0.5 A) USB3.0 host x 1 (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 RUN: Green, LINK/ACT: Yellow	
	SD Card	SD POWER: Green, SD BUSY: Yellow	
	EtherCAT	None	
Supply Voltage		20.4 VDC to 26.4 VDC	
Current consumption			
	• 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-L55□ : 2.7A max. FH-L55□-10 : 4.4A max.	
	Other than above	FH-L55□ : 1.5A max. FH-L55□-10 : 2.0A max.	
Built-in FAN		None	
Usage Environment			
	Ambient temperature range	Operating: 0°C to +55°C Storage: -25 to +70°C (with no icing or condensation)	
	Ambient humidity range	Operating and storage: 10 to 90% (with no condensation)	
	Ambient atmosphere	No corrosive gases	
	Vibration tolerance	5 to 8.4 Hz with 3.5 mm amplitude, 8.4 to 150 Hz, acceleration of 9.8 m/s2 100 min each in X, Y, and Z directions (10 sweeps of 10 min each = 100 min total)	
	Shock resistance	Impact force: 150 m/s2 Test direction: up and down/front and behind/left and right	

Item			Product discontinuation FH-L551 / FH-L551-10	Recommendable replacement FH-L552 / FH-L552-10
	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) (*2)	
External Features				
	Dimensions		200 mm x 80 mm x 130 mm	
	Weight		Approx. 1.5kg	
	Degree of protection		IEC60529 IP20	
	Case material		PC	

(*1). Be sure to use the 0.3 megapixels camera or the 0.4 megapixels camera.

(*2). Existing the third class grounding

[Operation ratings / Operation methods]

Product discontinuation FH-L551 / FH-L551-10	Recommendable replacement FH-L552 / FH-L552-10
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 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.