PRODUCT NEWS



NO: VS-118 PRODUCT: FH-1050

DATE: May 2020 TYPE: Discontinuation Notice

Discontinuation Notice of Vision System FH-1050 series Standard Controller (2 cores)

Product Discontinuation

Vision System
Standard Controller (2 cores)



Model FH-1050 Model FH-1050-10 Model FH-1050-20

Recommended Replacement

Vision System
High-speed / Large-capacity Controller (2 cores)



Model FH-2050 Model FH-2050-10 Model FH-2050-20

[Final order entry date]

The end of May, 2021

(The date will be put off until the end of August 2026 only if there is inventory)

[Date of The Last Shipping]

The end of August, 2021

(The date will be put off until the end of August 2026 only if there is inventory)

[Scheduled date of maintenance close]

The end of August, 2026

[Caution on recommended replacement]

As CPU is different, please consider processing time beforehand when you consider substitution.

In case of using remodeling software

If modified software is used, operation verification will be required, so including version upgrades Please contact a trading company.

[Difference from discontinued product]

Recommended replacement Model	Body Color	Dimen- sions	Wire connection	Mounting Dimensions	Operation ratings	Operation methods
FH-2050 series	*	**	*	**	 	**

** : Compatible

* : The change is a little/Almost compatible

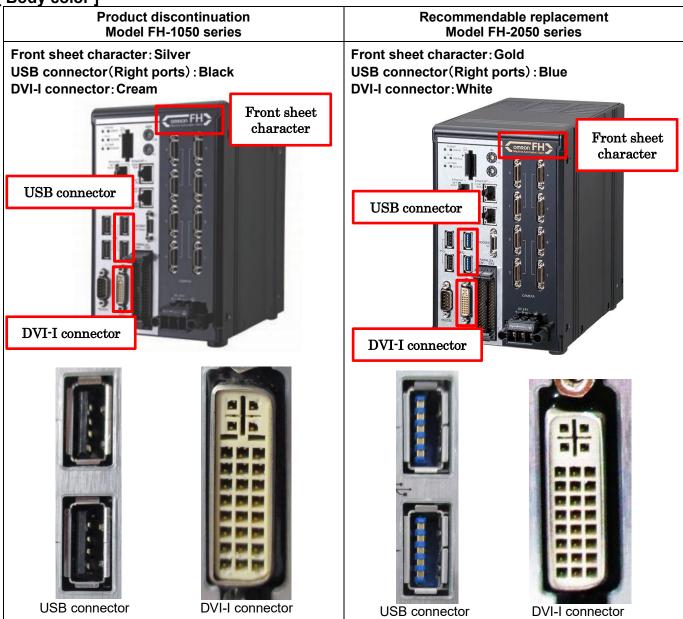
-- : Not compatible

- : No corresponding specification

[Product Discontinuation and recommended replacement]

Product discontinuation	Recommended replacement
FH-1050	FH-2050
FH-1050-10	FH-2050-10
FH-1050-20	FH-2050-20

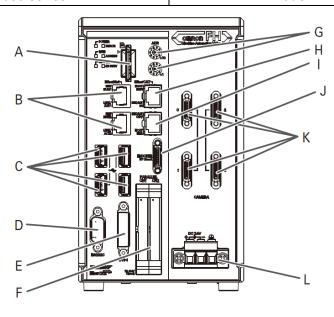
[Body color]



[Wire connection]

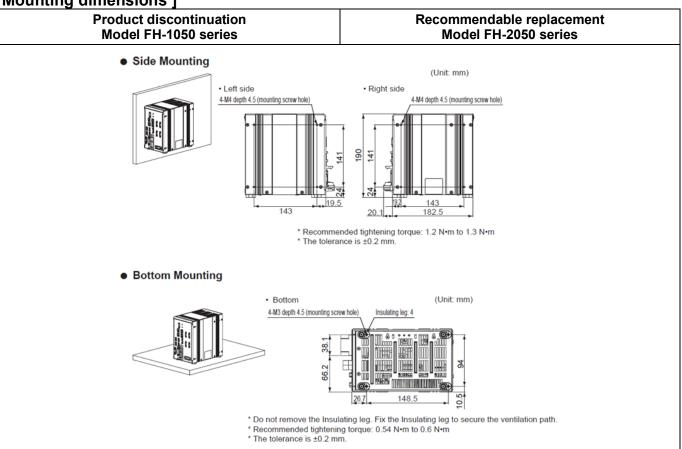
Product discontinuation Model FH-1050 series

Recommendable replacement Model FH-2050 series

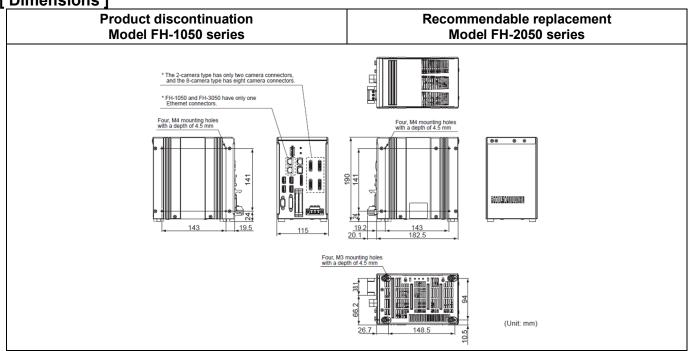


	Connector name	Description				
(A)	SD memory card installation connector	Install the SD memory card.Do not plug or unplug the SD memory card during measurement operation. Otherwise measurement time may be affected or data may be destroyed.				
(B)	Ethernet connector	Connect an Ethernet device. FH-1050/FH-3050 FH-2050/5050 series Upper port: Ethernet port, EtherNet/IP port, and PROFINET port are sharing use. FH-1050-10/-20, FH-3050-10/-20 FH-2050/5050 series Upper port: Ethernet port, EtherNet/IP port, and PROFINET port are sharing use.				
(C)	USB connector	Connect a USB device. Do not plug or unplug it during measurement. **Right ports of FH-5050 support USB 3.0				
(D)	RS-232C connector	Connect an external device such as a PLC.				
(E)	DVI-I connector	Connect a monitor.				
(F)	I/O(Parallel) connector (control lines,data lines)	Connect the controller to external devices such as a sync sensor and PLC.				
(G)	EtherCAT address setup volume	Used to set a station address (00 to 99) as an EtherCAT communication device.				
(H)	EtherCAT communication connecctor(IN)	Connect the opposed EtherCAT device.				
(I)	EtherCAT communication connecctor(OUT)	Connect the opposed EtherCAT device.				
(J)	Encoder connector	Connect an encoder.				
(K)	Camera connector	Connect cameras				
(L)	Power supply terminal connnector	Connect a DC power supply. Wire the FH Sensor Controller inspendently on other devices. Wire the ground line. Be sure to ground the FH Sensor Controller alone. Use an attachment power terminal (male) for installation. For detailes, refer to "Vision System Hardware Setup Manual" 5-3 Sensor Controller Instllation on page 5-5.				

[Mounting dimensions]



[Dimensions]



[Specification]

Specification]									
Item		Product discontinuation			Recommendable replacement				
		Мо	del FH-1050 se	T	Model FH-2050 series				
Model		FH-1050	FH-1050-10	FH-1050-20	FH-2050	FH-2050-10	FH-2050-20		
Controller type		BOX type							
Parallel	O polarity	NPN/PNP(common)							
	Standard	Yes							
Opera-	Double Speed Multi- input	Yes							
tion Mode	Non-stop adjustme nt mode	Yes	es						
	Multi-line random- trigger mode	Yes(Maximum	ı 8 line) ^{*1}						
Parallel	Processing	Yes							
Number Connect Camera		2	4	8	2	4	8		
Suppo- rted Came- ra	FH-S series camera	FH-S series cameras except FH-SM21R/SC21R are connectable.		FH-S series cameras except FH-SM21R/ SC21R are connect- able. *2	All of the FH-S series cameras are connectable.		All of the FH-S series cameras are connect able.*2		
	FZ-S series camera	All of the FH-S series cameras expect are connectable.							
Camera	I/F	OMRON I/F							
Capture Possible Logging	Number of d Images Number of Images to Controller	Refer to About Number of Logging Images or About Max. About Number of Logging Images during Multi-input in the Vision System FH/FHV series User's manual (Cat.No. Z365).							
Possible Scenes	Number of	128							
Operatin	USB Mouse	Yes (wired USB and drivers is unnecessary type)							
on UI	Touch Panel	Yes(RS-232C/USB connection: FH-MT12)							
Setup	•	Create the pro	Create the processing flow using Flow editing						
Language Japanese, English, Simplified, Chinese, Traditional Chinese, Korean, German, Fren Spanish, Italian, Vietnamese, Polish						an, French			

Item		P	roduct discontinuation		Recommendable replacement Model FH-2050 series			
		1	Model FH-1050 series					
Мос	del	FH-1050	FH-1050-10 FH-1050-	20	FH-2050	FH-2050-10	FH-2050-20	
Serial communication		RS-232C x	1					
Eth	er- Protocol	Non-proce	dure(TCP/UDP)					
net com unio ion		1000BA SE-T × 1	1000BASE-T × 2					
	erNet/IP nmunication	Yes(Targe	t/Ethernet port)					
	OFINET nmunication		e / Ethernet port) ance class A					
Par	allel I/O	17 inputs/3 14 inputs/2 mode.	19 inputs/34 outputs:Use 5 to 8 Line. Operation mode: Expect Multi-line random-trigger					
Enc	oder Interface	Input voltage: 5V±5% Signal: RS-422A Line Driver Level Phase A/B/Z: 1MHz						
Mor	nitor Interface	DVI-I output (Analog RGB & DVI-D single link) x 1						
USI	3 l/F		B2.0 host x 4 JS Power: 5 V/0.5 A per port) (BU US		33.0 host x 2	/0.5 A per port) /0.9 A per port)		
SD	Card I/F	SDHC x 1				· · · ·		
	Main	POWER: 0 ERROR: R RUN: Gree ACCESS:	Red en					
Indicator Lamps	Ethernet	NET RUN: Green LINK/ACT: Yellow	LINK/ACT1: Yellow					
.amps	SD Card	SD POWE SD BUSY:	VER: Grren					
	EtherCAT	ECAT RUN LINK/ACT LINK/ACT ECAT ERF	IN: Green OUT: Green					
Sup	ply Voltage	20.4VDC to	o 26.4VDC					

Item		Prod	uct discontinu	uation	Recommendable replacement			
		Model FH-1050 series			Model FH-2050 series			
Мо	del	FH-1050	FH-1050-10	FH-1050-20	FH-2050	FH-2050-10	FH-2050-20	
Current consumption	When connecting an intelligent compact digital 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	4.7A max.	6.5A max.	10.9A max.	4.6A max.	6.6A max.	11.2A max.	
	Other than above	3.6A max.	4.3A max.	6.2A max.	3.5A max.	4.3A max.	6.3A max.	
Bui	It-in FAN	Yes						
	Ambient temperature range Ambient humidity range	Operating: 0°C to +50°C Storage: -20 to +65°C (with no icing or condensation) Operating and Storage: 35 to 85%						
	Ambient atmosphere	(with no condensation) No corrosive gases						
Usage Eı	Vibration tolerance	Oscillation frequency: 10 to 150 Hz, Half amplitude: 0.1mm, Acceleration: 15m/s ² Sweep time: 8minutes/count, Sweep count: 10, Vibration direction: up and down/front and behind/left and right						
Environment	Shock resistance	Impact force: 150m/s² Test direction: up and down/front and behind/left and right						
ment	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 groun	iding(100Ω or le	ess grounding r	esistance)*3			
×	Dimensions	Dimensions 190 mm x 115mm x 182.5mm Note Height: Including the rubberat the base.						

Item		Product discontinuation Model FH-1050 series			Recommendable replacement Model FH-2050 series			
	Weight	Approx. 3.2 kg	Approx. 3.4 kg	Approx. 3.4 kg	Approx. 3.4 kg	Approx. 3.6 kg	Approx. 3.6 kg	
	Degree of protection	IEC60529 IP20 Cover: zinc-plated steel plate, Side plate: aluminum (A6063)						
	Case material							

^{*1.} According to CPU performance, FH-1050 series and FH-2050 series are recommended to use up to two lines in this mode.

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.

^{*2.} Up to eight cameras can be connected in total including up to four 12 or 20.4 Megapixel cameras.

^{*3.} Existing the third class grounding