

NO: VS-075 **PRODUCT: FZ5, FJ Vision Controllers**
DATE: September 2017 **TYPE: Partial Discontinuation Notice**

FZ5-60□, FZ5-110□, FJ-3000 Vision Controllers will be Discontinued; Replace with FZ5-80□ or FZ5-120□ Series

Discontinuation date: April 2018

Note: Date is subject to change based on raw materials and components availability at the factory.



Affected Parts

Product discontinuation		Recommended replacement	
Model	Description	Model	Description
FZ5-605-10	Standard controllers	FZ5-805-10	Standard controllers
FZ5-605		FZ5-805	
FZ5-600-10		FZ5-800-10	
FZ5-600		FZ5-800	
FZ5-1105-10	High-speed controllers	FZ5-1205-10	High-speed controllers
FZ5-1105		FZ5-1205	
FZ5-1100-10		FZ5-1200-10	
FZ5-1100		FZ5-1200	
FJ-3005-10	All-in-one PC vision system controller	FZ5-1205-10	High-speed controllers
FJ-3005		FZ5-1205	
FJ-3000-10		FZ5-1200-10	
FJ-3000		FZ5-1200	

Cautions on Applying Replacements

Confirm the measuring time, etc. in advance before changing over to the replacement models because these series have different CPUs.


If using customized software

Contact the system integrator or OEM who provided the FJ vision controller to determine if custom software was installed. It is necessary to get the replacement FH from the same OEM to make sure the customized software is provided.

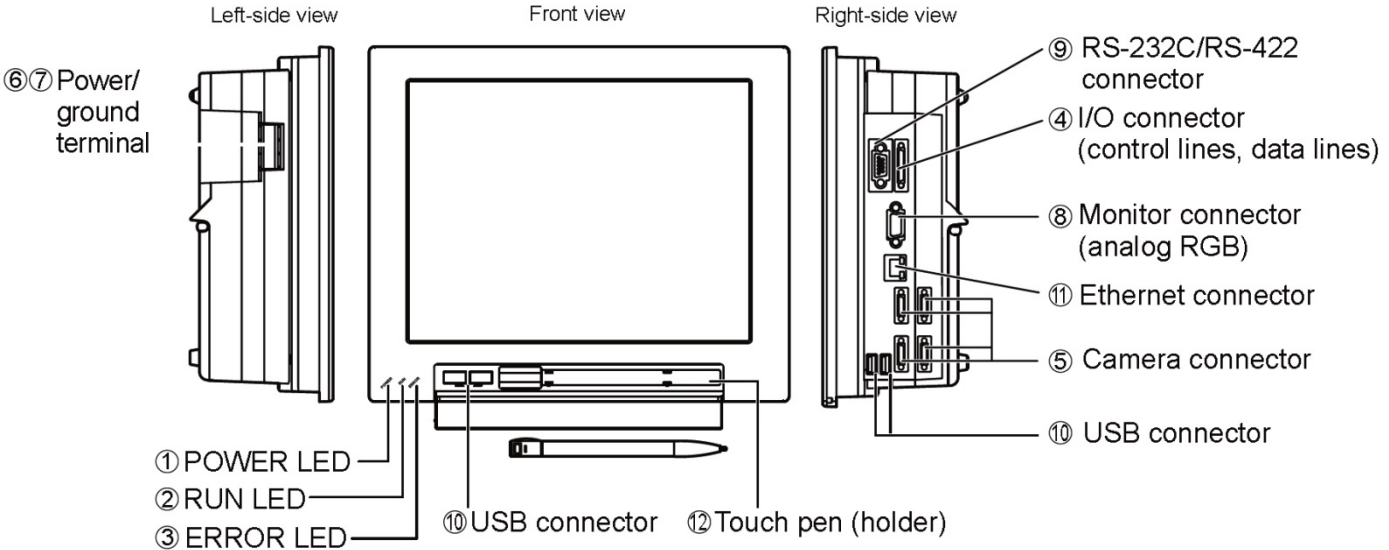
See the detail of differences on the following pages.

Detail of Differences

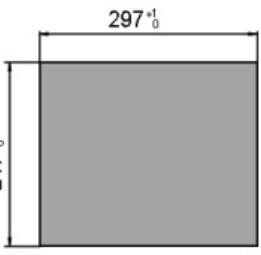
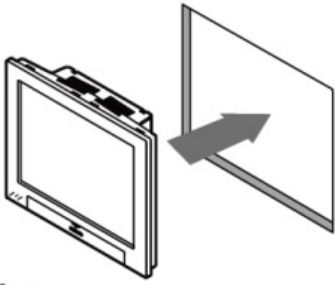
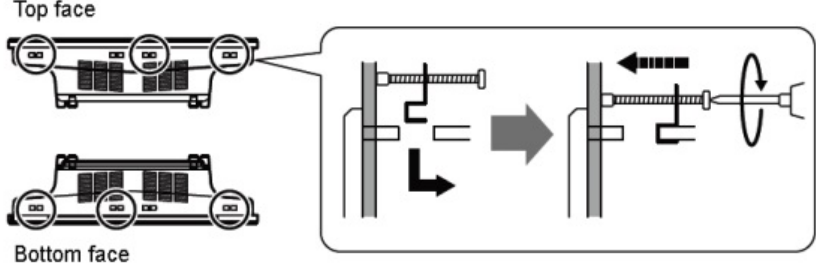
Body Color

<p>Product discontinuation Model FZ5-600(-10)/605(-10)/1100(-10)/1105(-10) Model FJ-3000(-10)/3005(-10)</p>	<p>Recommended replacement Model FZ5-800(-10)/805(-10) Model FZ5-1200(-10)/1205(-10)</p>
	

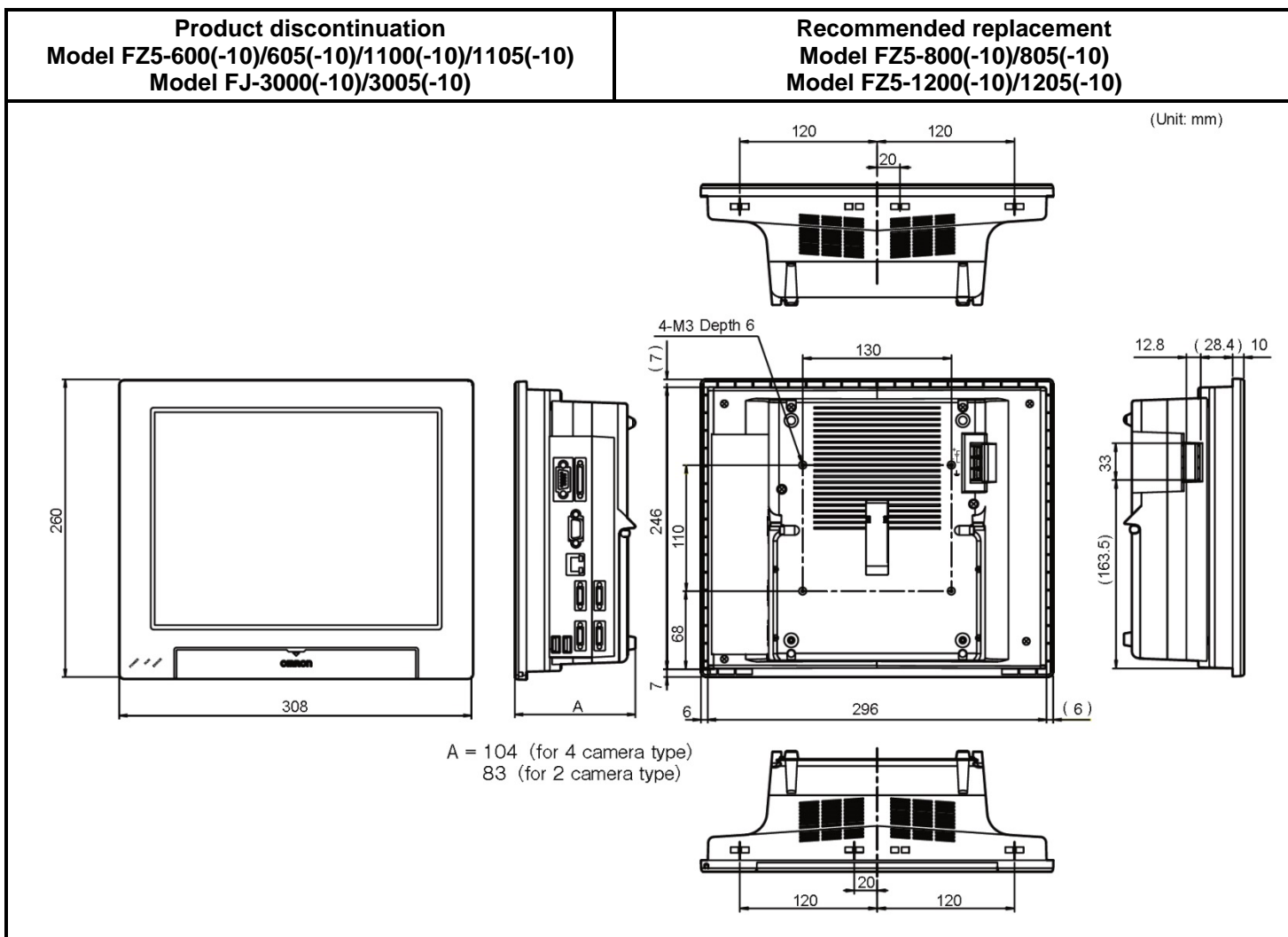
Connections and Indicators

<p>Product discontinuation Model FZ5-600(-10)/605(-10)/1100(-10)/1105(-10) Model FJ-3000(-10)/3005(-10)</p>	<p>Recommended replacement Model FZ5-800(-10)/805(-10) Model FZ5-1200(-10)/1205(-10)</p>
 <p>Left-side view Front view Right-side view</p> <p>⑥⑦ Power/ground terminal</p> <p>① POWER LED ② RUN LED ③ ERROR LED</p> <p>④ I/O connector (control lines, data lines) ⑤ Camera connector ⑧ Monitor connector (analog RGB) ⑨ RS-232C/RS-422 connector ⑩ USB connector</p> <p>⑩ USB connector ⑫ Touch pen (holder)</p>	

Mounting Dimensions

Product discontinuation Model FZ5-600(-10)/605(-10)/1100(-10)/1105(-10) Model FJ-3000(-10)/3005(-10)	Recommended replacement Model FZ5-800(-10)/805(-10) Model FZ5-1200(-10)/1205(-10)
<p>Panel mounting</p> <p>① Make a mount hole on the panel. Panel thickness range: 1.6 to 4.8 mm Panel material: Metal (iron, aluminum or stainless)</p> <p>② Insert the LCD integrated controller into the hole, from the front panel.</p> <p>③ Use the bracket (supplied with the product) to secure the controller and the panel.</p> <p>Tightening torque: 0.5 to 0.6 Nm</p>	<p>(Unit: mm)</p>  <p>* No burr allowed</p>  

Dimensions



Specifications

Item		Product discontinuation Model FZ5-60[](-10)/110[](-10) Model FJ-300[](-10)		Recommended replacement Model FZ5-80[](-10) Model FZ5-120[](-10)	
Model	NPN	FZ5-600 FZ5-1100 FJ-3000	FZ5-600-10 FZ5-1100-10 FJ-3000-10	FZ5-800 FZ5-1200	FZ8-600-10 FZ5-1200-10
	PNP	FZ5-605 FZ5-1105 FJ-3005	FZ5-605-10 FZ5-1105-10 FJ-3005-10	FZ5-805 FZ5-1205	FZ8-605-10 FZ5-1205-10
Controllers type		LCD Integrated type			
No. of cameras		2 camera type	4 camera type	2 camera type	4 camera type
Connected camera		FZ-S series (When connecting 5 million-pixel cameras, up to two cameras can be connected.)			
Number of scenes		128			
Operation		Mouse, etc.			
Settings		Create series of processing steps by editing the flowchart (Help messages provided).			

Processing Resolution

Item	Product discontinuation Model FZ5-60[](-10) /110[](-10) Model FJ-300[](-10)	Recommended replacement Model FZ5-80[](-10) Model FZ5-120[](-10)
When connected to a intelligent compact camera	752 (H) × 480 (V)	
When connected to a 300,000-pixel camera	640 (H) × 480 (V)	
When connected to a 2 million-pixel camera	1600 (H) × 1200 (V)	
When connected to a 5 million-pixel camera	2448 (H) × 2044 (V)	

Number of logged images *1

Item		Product discontinuation Model FZ5-60[](-10)	Recommended replacement Model FZ5-80[](-10)
When connected to an intelligent compact camera	Connected to 1 camera	214	214
	Connected to 2 cameras	107	107
	Connected to 3 cameras	71	71
	Connected to 4 cameras	53	53
When connected to a 300,00-pixel camera	Connected to 1 camera	Color	250
		Monochrome	252
	Connected to 2 cameras	Color	125
		Monochrome	126
	Connected to 3 cameras	Color	83
		Monochrome	84
	Connected to 4 cameras	Color	62
		Monochrome	63
When connected to a 2 million-pixel camera (FZ-S)	Connected to 1 camera	Color	40
		Monochrome	40
	Connected to 2 cameras	Color	20
		Monochrome	20
	Connected to 3 cameras	Color	13
		Monochrome	13
	Connected to 4 cameras	Color	10
		Monochrome	10
When connected to a 5 million-pixel camera (FZ-S)	Connected to 1 camera	Color	11
		Monochrome	11
	Connected to 2 cameras	Color	5
		Monochrome	5
	Connected to 3 cameras	Color	--
		Monochrome	--
	Connected to 4 cameras	Color	--
		Monochrome	--

*1 The image logging capacity changes when multiple cameras of different types are connected at the same time.

Number of logged images continued *1

Item		Product discontinuation Model FZ5-110[](-10) Model FJ-300[](-10)	Recommended replacement Model FZ5-120[](-10)	
When connected to an intelligent compact camera	Connected to 1 camera	232	232	
	Connected to 2 cameras	116	116	
	Connected to 3 cameras	77	77	
	Connected to 4 cameras	58	58	
When connected to a 300,00-pixel camera	Connected to 1 camera	Color	270	270
		Monochrome	272	272
	Connected to 2 cameras	Color	135	135
		Monochrome	136	136
	Connected to 3 cameras	Color	90	90
		Monochrome	90	90
	Connected to 4 cameras	Color	67	67
		Monochrome	68	68
When connected to a 2 million-pixel camera (FZ-S)	Connected to 1 camera	Color	43	43
		Monochrome	43	43
	Connected to 2 cameras	Color	21	21
		Monochrome	21	21
	Connected to 3 cameras	Color	14	14
		Monochrome	14	14
	Connected to 4 cameras	Color	10	10
		Monochrome	10	10
When connected to a 5 million-pixel camera (FZ-S)	Connected to 1 camera	Color	16	16
		Monochrome	16	16
	Connected to 2 cameras	Color	8	8
		Monochrome	8	8
	Connected to 3 cameras	Color	5	5
		Monochrome	5	5
	Connected to 4 cameras	Color	4	4
		Monochrome	4	4

*1 The image logging capacity changes when multiple cameras of different types are connected at the same time.

Ratings

Item		Product discontinuation		Recommended replacement	
		FZ5-60□ FZ5-110□ FJ-300□	FZ5-60□-10 FZ5-110□-10 FJ-300□-10	FZ5-80□ FZ5-120□	FZ5-80□-10 FZ5-120□-10
Power supply voltage		20.4 ~ 26.4 VDC			
Current consumption (at 24.0 VDC) *1	When connected to an intelligent compact camera	5.0 A max.	7.5 A max.	5.0 A max.	7.5 A max.
	When connected to a 300,000-pixel camera	3.7 A max.	4.9 A max.	3.7 A max.	4.9 A max.
	When connected to a 2 million-pixel camera				
	When connected to a 5 million-pixel camera				
Weight		Approx. 3.2 kg	Approx. 3.4 kg	Approx. 3.2 kg	Approx. 3.4 kg
Accessories		Touch pen, instruction manual, 6 mounting brackets			

Note 1: The current consumption when the maximum number of cameras supported by each controller is connected.
If a strobe controller model is connected to a lamp, the current consumption is as high as when an intelligent camera is connected.

Operating Environment

Item		Product discontinuation Model FZ5-60□(-10)/110□(-10) Model FJ-300□(-10)	Recommended replacement Model FZ5-80□(-10) Model FZ5-120□(-10)
Ambient temperature range	Operating	Ambient temperature specifiable. The cooling fan speed can be switched according to the setting. 0 to 45°C: Low speed 0 to 50°C: High speed	
	Storage	-20 to 65°C (with no icing or condensation)	
Ambient humidity range	Operating	35 to 85%RH (with no condensation)	
	Storage		

External Interface

Item	Product discontinuation Model FZ5-60□(-10)	Recommended replacement Model FZ5-80□(-10)
Serial communications	RS-232C: 1CH	
EtherNet communications	Ethernet 100BASE-TX/10BASE-T	Ethernet 1000BASE-T/100BASE-TX/10BASE-T
EtherNet/IP communications	Ethernet port baud rate: 100Mbps (100BASE-TX)	
Parallel I/O interface	<u>13 inputs</u> RESET, STEP0/ENCTRIG_Z0, DSA0, ENCTRIG_A0, ENCTRIG_B0, DI0 to 7 <u>26 outputs</u> RUN, BUSY0, GATE0,OR0, READY0, ERROR, STGOUT0 to 3, DO0 to 15 * STGOUT 2 to 3 only for camera 4 ch type	
Monitor interface	Integrated Controller and 12.1 inch TFT color LCD (Resolution: XGA 1,024 × 768 dots) Analog RGB video output, 1 channel	
USB interface	4 channels (supports USB 1.1 and 2.0)	

Item	Product discontinuation Model FZ5-110□(-10) Model FJ-300□(-10)	Recommendable replacement Model FZ5-120□(-10)
Serial communications	RS-232C: 1CH	
EtherNet communications	Ethernet 100BASE-TX/10BASE-T	Ethernet 1000BASE-T/100BASE-TX/10BASE-T
EtherNet/IP communications	Ethernet port baud rate: 100Mbps (100BASE-TX)	
Parallel I/O interface	<u>17 inputs</u> RESET, STEP0/ENCTRIG_Z0, STEP1/ENCTRIG_Z1, DSA0 to 1, ENCTRIG_A0 to 1, ENCTRIG_B0 to 1, DI0 to 7 <u>29 outputs</u> RUN/BUSY1, BUSY0, GATE0 to 1, OR0 to 1, READY0 to 1, ERROR, STGOUT0 to 1, DO0 to 15 * STGOUT2 to 3 only for camera 4 ch type	
Monitor interface	Integrated Controller and 12.1 inch TFT color LCD (Resolution: XGA 1,024 × 768 dots) Analogue RGB video output, 1 channel	
USB interface	4 channels (supports USB 1.1 and 2.0)	

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.