PRODUCT NEWS

Product Discontinuation Notices

Vision Sensors / Machine Vision Systems

OMRON

Issue Date
May 09, 2022

No. 20220421_DOP_00001

Discontinuation Notice of Vision Sensors FZ5 series

Product Discontinuation	Recommended Replacement
	It is necessary to build a system with Machine Vision System FH-2050/5050 series and Touch Panel Monitor FH-MT12.
FZ5 Standard Controller **Model FZ5-800** **Model FZ5-805**	**FH High-speed, Large-capacity Controller (2 cores)** **Model FH-2050** **Touch Panel Monitor** **Model FH-MT12**
FZ5 Standard Controller **Model FZ5-800-10** **Model FZ5-805-10**	**FH High-speed, Large-capacity Controller (2 cores)** **Model FH-2050-10** **Touch Panel Monitor** **Model FH-MT12**
FZ5 Standard Controller **Model FZ5-1200** **Model FZ5-1205**	**FH High-speed, Large-capacity Controller (4 cores)** **Model FH-5050** **Touch Panel Monitor** **Model FH-MT12**
FZ5 Standard Controller **Model FZ5-1200-10** **Model FZ5-1205-10**	**FH High-speed, Large-capacity Controller (4 cores)** **Model FH-5050-10** **Touch Panel Monitor** **Model FH-MT12**

Parallel I/O cable **Model FZ-VP 2M** **Model FZ-VP 5M**	**Parallel I/O cable** **Model XW2Z-S013-2** **Model XW2Z-S013-5**
Parallel I/O cable for Connector Terminal Conversion Unit **Model FZ-VPX 2M** **Model FZ-VPX 5M**	**Parallel I/O cable for Connector Terminal Conversion Unit** **Model XW2Z-200EE** **Model XW2Z-500EE**
VESA Attachment For installing the LCD integrated-type controller **Model FZ-VESA**	**No recommended replacement**
Desktop Controller Stand For installing the LCD integrated-type controller **Model FZ-DS**	**No recommended replacement**

[Final order entry date]

The end of March, 2023

[Date of The Last Shipping]

The end of March, 2024

[Scheduled date of maintenance close]

The end of March, 2028

[Caution on recommended replacement]

It's different in CPU, so when considering a recommendation replacement, please confirm processing time beforehand.

It's possible to divert a camera, camera cable, the lens and illumination, but a parallel I/O cable, a RS-232C cable and a monitor cable can't be diverted, so please be careful.

When customized software is used, you need movement inspection, so please inquire of a trading company of dealings including an upgrade.

[Difference from discontinued product]

Recommended replacement Model	Body Color	Dimen-sions	Wire connection	Mounting Dimensions	Charac-teristics	Operation ratings	Operation methods
FH-2050 Series FH-MT12	--	--	--	--	--	*	*
FH-5050 Series FH-MT12	-	-	--	--	--	*	*
XW2Z-S013-☐ Series	--	--	-	-	-	-	-
XW2Z-☐☐☐EE Series	--	--	-	-	-	-	-

** : Compatible
* : The change is a little/Almost compatible
-- : Not compatible
- : No corresponding specification

[Product Discontinuation and recommended replacement]

Product discontinuation	Recommended replacement
FZ5-800	FH-2050 FH-MT12
FZ5-805	
FZ5-800-10	FH-2050-10 FH-MT12
FZ5-805-10	
FZ5-1200	FH-5050 FH-MT12
FZ5-1205	
FZ5-1200-10	FH-5050-10 FH-MT12
FZ5-1205-10	
FZ-VP 2M	XW2Z-S013-2
FZ-VP 5M	XW2Z-S013-5
FZ-VPX 2M	XW2Z-200EE
FZ-VPX 5M	XW2Z-500EE
FZ-VESA	No recommended replacement
FZ-DS	No recommended replacement

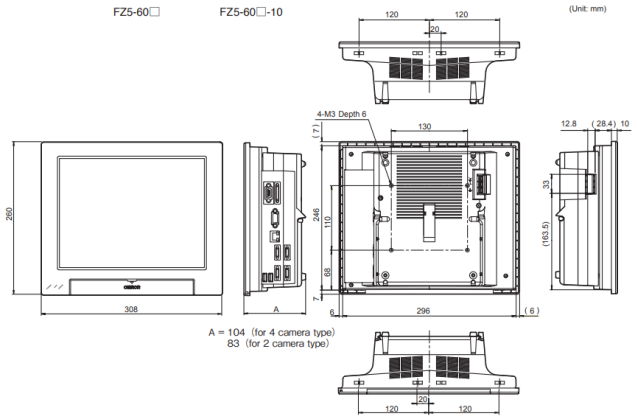
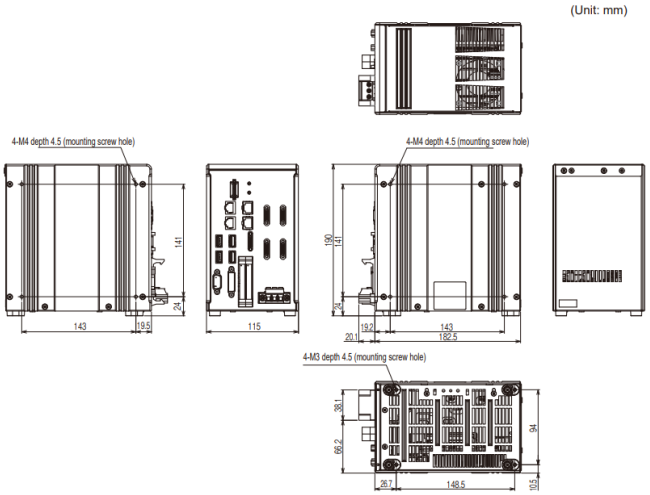
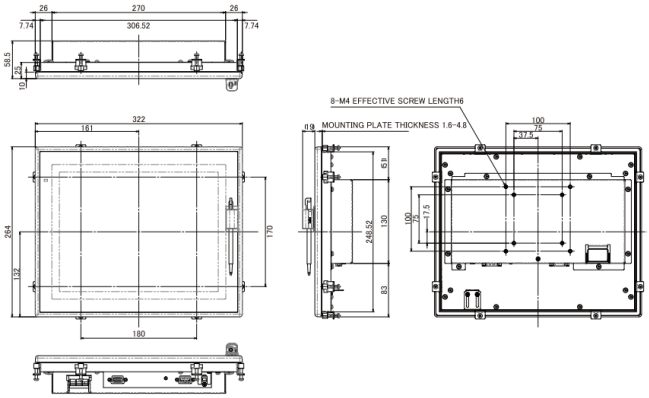
[Body color]

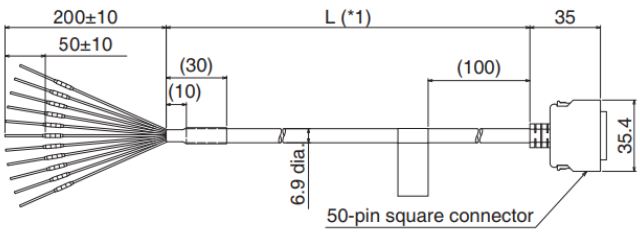
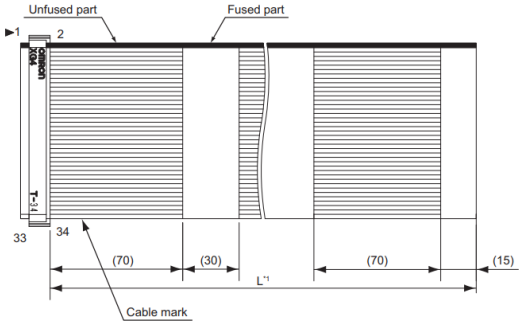
Product discontinuation Model FZ5-800, FZ5-805 Model FZ5-800-10, FZ5-805-10 Model FZ5-1200, FZ5-1205 Model FZ5-1200-10, FZ5-1205-10	Recommendable replacement Model FH-2050 Model FH-2050-10 Model FH-5050 Model FH-5050-10 Model FH-MT12
Silver 	・**FH-2050/5050 Series** Black.  ・**FH-MT12** Silver 

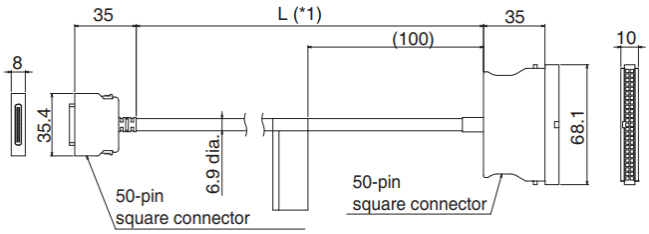
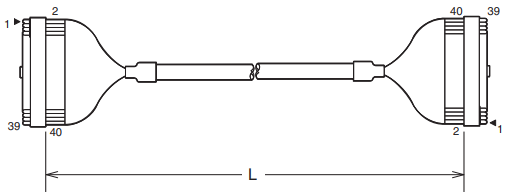
Product discontinuation Model FZ-VP 2M, FZ-VP 5M	Recommendable replacement Model XW2Z-S013-2, XW2Z-S013-5
Black 	Gray 

Product discontinuation Model FZ-VPX 2M, FZ-VPX 5M	Recommendable replacement ModelXW2Z-200EE, XW2Z-500EE
Black 	Gray 

[Dimensions]

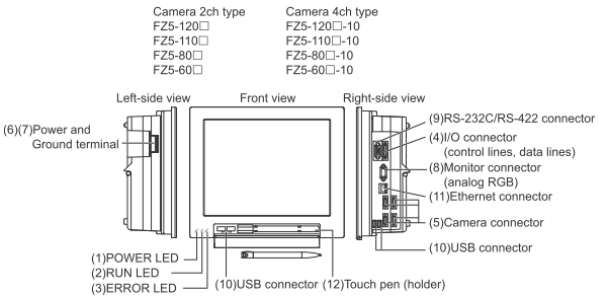
Product discontinuation Model FZ5-800, FZ5-805 Model FZ5-800-10, FZ5-805-10 Model FZ5-1200, FZ5-1205 Model FZ5-1200-10, FZ5-1205-10	Recommendable replacement Model FH-2050 Model FH-2050-10 Model FH-5050 Model FH-5050-10 Model FH-MT12
▪FZ5-80□、FZ5-120□ H260mm×W308mm×D83mm **▪FZ5-80□-10、FZ5-120□-10** H260mm×W308mm×D104mm 	**▪FH-2050/5050 Series** H190mm×W115mm×D182.5mm  **▪FH-MT12** H264mm×W332mm×D58.5mm 

Product discontinuation Model FZ-VP 2M, FZ-VP 5M	Recommendable replacement Model XW2Z-S013-2, XW2Z-S013-5
 *1. cable is available in 2m/5m.	 *1. Cable is available in 2 m/5 m.

Product discontinuation Model FZ-VPX 2M, FZ-VPX 5M	Recommendable replacement ModelXW2Z-200EE, XW2Z-500EE
 *1. cable is available in 2m/5m.	

[Wire connection]

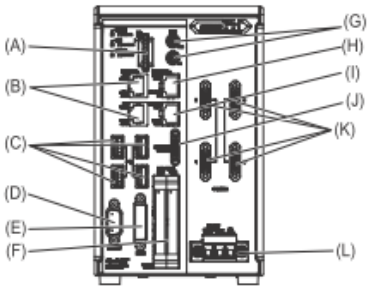
Product discontinuation
Model FZ5-800, FZ5-805, FZ5-800-10, FZ5-805-10
Model FZ5-1200, FZ5-1205, FZ5-1200-10, FZ5-1205-10



	Connector name	Description
(1)	POWER LED	Lit while power is ON.
(2)	RUN LED	Lit while the layout turned on output setting is displayed.
(3)	ERROR LED	Lit when an error has occurred.
(4)	I/O connector (control lines, data lines)	Connect the controller to external devices such as a sync sensor.
(5)	Camera connector	Connect cameras.
(6)	Power and Ground terminal	Connect a DC power supply. Wire the power supply unit independently of other devices. After wiring, replace the terminal cover.
(7)	Power and Ground terminal	Connect the ground wire. Make sure that the controller is grounded with a separate ground wire.
(8)	Monitor connector (analog RGB)	For FZ5-600/FZ5-1100 series, cannot connect the monitor. For use this connector, contact OMRON representative. FZ5-800 Series/FZ5-1200 Series: Connect monitor.
(9)	RS-232C/RS-422 connector	Connect an external device such as a personal computer or PLC.
(10)	USB connector	Connect a USB device. Do not plug or unplug it during measurement. Measurement time might be affected otherwise. However, when connecting two or more USB memories, do not connect them to adjacent ports. Doing so may cause the USB memories to come into contact, resulting in malfunction or damage.
(11)	Ethernet connector	Connect Ethernet device. Ethernet port and EtherNet/IP port are sharing use.
(12)	Touch pen (holder)	A touch pen is stored.

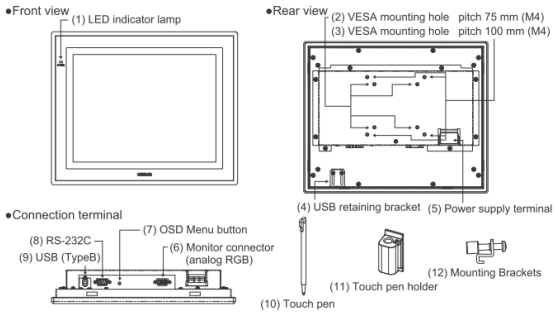
Recommendable replacement
Model FH-2050, FH-2050-10, FH-5050, FH-5050-10

	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: Ethernet port, EtherNet/IP port, and PROFINET port are sharing use. FH-1050-10/-20, FH-3050-10/-20 FH-2000/5000 series: Upper port : Ethernet port Lower 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. Otherwise measurement time may be affected or data may be destroyed. FH-1000/FH-3000 series: All ports: USB2.0 FH-2000/FH-5000 series: Left ports: USB2.0 Right ports: USB3.0 The USB3.0 interface has higher bus power supply capability than the USB2.0 interface, and you can expect more stable operation with it. Also, when used in combination with a USB3.0 device, you can expect higher transfer speed than USB2.0. Be sure to give priority to using the USB3.0 interface.
(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.



	Connector name	Description
(G)	EtherCAT address setup volume	Used to set a station address (00 to 99) as an EtherCAT communication device.
(H)	EtherCAT communication connector (IN)	Connect the opposed EtherCAT device.
(I)	EtherCAT communication connector (OUT)	Connect the opposed EtherCAT device.
(J)	Encoder connector	Connect an encoder.
(K)	Camera connector	Connect cameras.
(L)	Power supply terminal connector	Connect a DC power supply. Wire the FH Sensor Controller independently 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 details, refer to *5-3 Sensor Controller Installation* on page 5-5.

Recommendable replacement
Model FH-MT12



	Name	Description
(1)	LED indicator lamp	Lit up green when power is ON. Lit up orange when video signal is no input. Unlit when power is OFF.
(2)	VESA mounting hole (M4)	Mounting hole for VESA 75 mm x 75 mm.
(3)	VESA mounting hole (M4)	Mounting hole for VESA 100 mm x 100 mm.
(4)	USB retaining bracket	Retaining bracket for USB cable.
(5)	Power supply terminal	Connect a 24 VDC power supply.
(6)	Monitor connector (analog RGB)	Connect a monitor cable for analog RGB.
(7)	OSD Menu button	The button to activate the OSD menu.
(8)	RS-232C	Connect a serial communication port for touch panel communication.
(9)	USB (TypeB)	Connect a USB port (Type B) for touch panel communication.
(10)	Touch pen	Use for operation of touch panel.
(11)	Touch pen holder	Put touch pen in it when not using. Paste it on the monitor by double-sided tape.
(12)	Mounting Brackets	Use them to mount the panel.

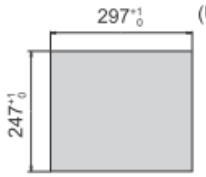
[Mounting dimensions]

Product discontinuation
Model FZ5-800, FZ5-805, FZ5-800-10, FZ5-805-10
Model FZ5-1200, FZ5-1205, FZ5-1200-10, FZ5-1205-10

● Panel mounting

(1) Make a mount hole on the panel.

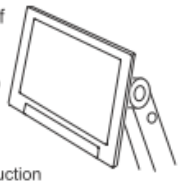
Panel thickness range: 1.6 to 4.8 mm
Panel material: Metal (iron, aluminum or stainless)



●VESA mounting

• Mounting the controller to the optional VESA attachment unit.

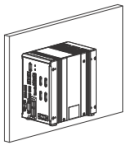
VESA-compatible mounting of the controller is possible by attaching the optional VESA attachment unit (FZ-VESA) to the rear of the controller.

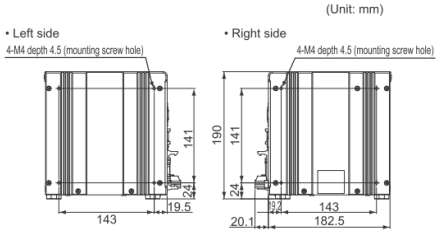


* For details, refer to the Instruction Sheet of the VESA attachment

Recommendable replacement
Model FH-2050, FH-2050-10, FH-5050, FH-5050-10

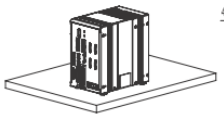
● Side Mounting

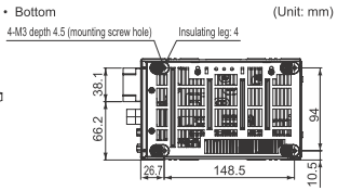




* Recommended tightening torque: 1.2 N•m to 1.3 N•m
* The tolerance is ±0.2 mm.

● Bottom Mounting



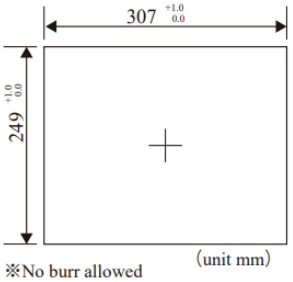


* Do not remove the Insulating leg. Fix the Insulating leg to secure the ventilation path.
* Recommended tightening torque: 0.54 N•m to 0.6 N•m
* The tolerance is ±0.2 mm.

Recommendable replacement
Model FH-MT12

●Panel Mounting

①Make a mount hole on the panel.
Panel thickness range: 1.6 to 4.8 mm
Panel material: Metal
(iron, aluminum or stainless)



※No burr allowed

●VESA mounting

This product can be mounted on to the arms conforming to the VESA standard.Fix the touch panel monitor using the VESA mounting holes (M4) of 75 mm x 75 mm pitch or 100 mm x 100 mm pitch on the back of the monitor.

[Characteristics]

Item			Product discontinuation Model FZ5-800 Series				Recommendable replacement Model FH-2050 Series	
Model			**FZ5-800**	**FZ5-805**	**FZ5-800-10**	**FZ5-805-10**	**FH-2050**	**FH-2050-10**
Controller Type			Liquid Crystal Display type				Box type	
Parallel IO			NPN	PNP	NPN	PNP	NPN/PNP (common)	
Operation Mode	**Standard**		Yes				Yes	
	Double Speed Multi-input		Yes				Yes	
	Non-stop adjustment mode		Yes				Yes	
	Multi-line random-trigger mode		Yes (Maximum 2 lines)				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				Yes	
Number of Connectable Camera			2		4		2	4
Supported Camera	**FH-S series camera**		Not connectable				All of the FH-S series cameras are connectable.	
	FZ-S series camera		All of the FZ-S series cameras are connectable. (When 5 megapixel cameras are connected, the maximum number of connectable cameras is 2.)				All of the FZ-S series cameras are connectable.	
Camera I/F			OMRON 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/FZ5 series User's Manual (Cat. No. Z365).				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*1				128*1	
Operating on UI	**USB Mouse**		Yes (wired USB driver-less type)				Yes (wired USB and driver is unnecessary type)	
	Touch Panel		Yes（Product-equipped touch panel）				Yes (RS-232C/USB connection: FH-MT12)	
Setup			Create the processing flow using Flow editing.				Create the processing flow using Flow editing.	
Language			Japanese, English, Simplified Chinese, Traditional Chinese, Korean, German, French, Spanish, Italian				Japanese, English, Simplified Chinese, Traditional Chinese, Korean, German, French, Spanish, Italian, Vietnamese, Polish	
External Interface	**Serial Communication**		RS-232C/422 ×1				RS-232C ×1	
	Ethernet Communication	**Protocol**	Non-procedure (TCP/UDP)				Non-procedure (TCP/UDP)	
		I/F	1000BASE-T ×1				1000BASE-T ×2	
	EtherNet/IP Communication		Yes (Target/Ethernet port)				Yes (Target/Ethernet port)	

Item			Product discontinuation Model FZ5-800 Series				Recommendable replacement Model FH-2050 Series	
Model			FZ5-800	FZ5-805	FZ5-800-10	FZ5-805-10	FH-2050	FH-2050-10
	PROFINET Communication		No				• Yes (Slave/Ethernet port) • Conformance class A	
	EtherCAT Communication		No				Yes (slave)	
	Parallel I/O		• 1 line mode: 13 inputs/26 outputs • 2 line random trigger mode: 17 inputs/29 outputs				・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		None				Input voltage: 5 V ± 5% Signal: RS-422A Line Driver Level Phase A/B/Z: 1 MHz	
	Monitor Interface		Analog RGB video output ×1				DVI-I output (Analog RGB & DVI-D single link) x 1	
	USB I/F		USB2.0 host ×4 (BUS Power: Port 5 V)				USB2.0 host x 2 (BUS Power: 5 V/0.5 A per port) USB3.0 host x 2 (BUS Power: 5 V/0.9 A per port)	
	SD Card I/F		None				SDHC x 1	
Indicator Lamps	Main		POWER: Green ERROR: Red RUN: Yellow				POWER: Green ERROR: Red RUN: Green ACCESS: Yellow	
	Ethernet		NET RUN: Green LINK/ACT: Yellow				NET RUN1: Green LINK/ACT1: Yellow NET RUN2: Green LINK/ACT2: Yellow	
	SD Card		None				SD POWER: Green SD BUSY: Yellow	
	EtherCAT		None				ECAT RUN: Green LINK/ACT IN: Green LINK/ACT OUT: Green ECAT ERR: Red	
Power-supply voltage			20.4 VDC to 26.4 VDC				20.4 VDC to 26.4 VDC	
Current consumption	When connected to a Controller	Connected to 2 cameras	5.0 A max.		7.5 A max.		4.6A max.	6.6A max.
		Connected to 4 cameras	-				-	
	When not	Connected to 2 cameras	3.7 A max.		4.9 A max.		3.5A max.	4.3A max.

Item			Product discontinuation Model FZ5-800 Series				Recommendable replacement Model FH-2050 Series	
Model			FZ5-800	FZ5-805	FZ5-800-10	FZ5-805-10	FH-2050	FH-2050-10
	connected to Controller	Connected to 4 cameras	-				-	
Built-in FAN			Yes				Yes	
Usage Environment	Ambient temperature range		Operating: 0°C to 45°C (When the built-in FAN is set to slow rotation.) Operating: 0°C to 50°C (When the built-in FAN is set to fast rotation.) Storage: -20 to +65°C				Operating: 0°C to +50°C Storage: -20 to +65°C (with no icing or condensation)	
	Ambient humidity range		Operating and Storage: 35 to 85%RH (with no condensation)				Operating and storage: 35 to 85% (with no condensation)	
	Ambient atmosphere		No corrosive gases				No corrosive gases	
	Vibration tolerance		Oscillation frequency: 10 to 150 Hz Half amplitude: 0.1mm Acceleration: 15m/s^2 Sweep time: 8 minute/count Sweep count: 10 times Vibration direction: up and down/front and behind/left and right				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: 150m/s^2 Test direction: up and down/front and behind/left and right				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: 2kV, Pulse rising: 5ns, Pulse width: 50ns, Burst continuation time: 15ms/0.75ms, Period: 300ms, Application time: 1min. • I/O line Direct infusion: 1kV, Pulse rising: 5ns, Pulse width: 50ns, Burst continuation time: 15ms/0.75ms, Period: 300ms, Application time: 1 min				• DC power Direct infusion: 2kV, Pulse rising: 5ns, Pulse width: 50ns, Burst continuation time: 15ms/0.75ms, Period: 300ms, Application time: 1min. • I/O line Direct infusion: 1kV, Pulse rising: 5ns, Pulse width: 50ns, Burst continuation time: 15ms/0.75ms, Period: 300ms, Application time: 1 min	
	Grounding		Class D grounding (100 Ω or less grounding resistance) *2				Class D grounding (100 Ω or less grounding resistance) *2	
External Features	Dimensions		260mm × 308mm × 83mm		260mm × 308mm × 104mm		190mm x 115mm x 182.5mm Note Height: Including the rubber at the base.	
	Weight		Approx. 3.2 kg		Approx. 3.4 kg		Approx.3.4kg	Approx.3.6kg
	Degree of protection		IEC60529 IP20				IEC60529 IP20	
	Case material		ABS				Cover: zinc-plated steel plate, Side plate: aluminum (A6063)	

*1. This can be increased up to 1024 using the Scene group conversion tool.
*2. Existing the third class grounding

Item			Product discontinuation Model FZ5-1200 Series				Recommendable replacement Model FH-5050 Series	
Model			**FZ5-1200**	**FZ5-1205**	**FZ5-1200-10**	**FZ5-1205-10**	**FH-5050**	**FH-5050-10**
Controller Type			Liquid Crystal Display type				Box type	
Parallel IO			NPN	PNP	NPN	PNP	NPN/PNP (common)	
Operation Mode	**Standard**		Yes				Yes	
	Double Speed Multi-input		Yes				Yes	
	Non-stop adjustment mode		Yes				Yes	
	Multi-line random-trigger mode		Yes (Maximum 2 lines)				Yes (Maximum 8 lines)	
Parallel Processing			Yes				Yes	
Number of Connectable Camera			2		4		2	4
Supported Camera	**FH-S series camera**		Not connectable				All of the FH-S series cameras are connectable.	
	FZ-S series camera		All of the FZ-S series cameras are connectable. (When 5 megapixel cameras are connected, the maximum number of connectable cameras is 2.)				All of the FZ-S series cameras are connectable.	
Camera I/F			OMRON 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/FZ5 series User's Manual (Cat. No. Z365).				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*1				128*1	
Operating on UI	**USB Mouse**		Yes (wired USB driver-less type)				Yes (wired USB and driver is unnecessary type)	
	Touch Panel		Yes（Product-equipped touch panel）				Yes (RS-232C/USB connection: FH-MT12)	
Setup			Create the processing flow using Flow editing.				Create the processing flow using Flow editing.	
Language			Japanese, English, Simplified Chinese, Traditional Chinese, Korean, German, French, Spanish, Italian				Japanese, English, Simplified Chinese, Traditional Chinese, Korean, German, French, Spanish, Italian, Vietnamese, Polish	
External Interface	**Serial Communication**		RS-232C/422 ×1				RS-232C ×1	
	Ethernet Communication	**Protocol**	Non-procedure (TCP/UDP)				Non-procedure (TCP/UDP)	
		I/F	1000BASE-T ×1				1000BASE-T ×2	
	EtherNet/IP Communication		Yes (Target/Ethernet port)				Yes (Target/Ethernet port)	
	PROFINET Communication		No				• Yes (Slave/Ethernet port) • Conformance class A	
	EtherCAT Communication		No				Yes (slave)	

<table>
<tr><th colspan="3">Item</th><th colspan="4">Product discontinuation
Model FZ5-1200 Series</th><th colspan="2">Recommendable replacement
Model FH-5050 Series</th></tr>
<tr><th colspan="3">Model</th><th>FZ5-1200</th><th>FZ5-1205</th><th>FZ5-1200-10</th><th>FZ5-1205-10</th><th>FH-5050</th><th>FH-5050-10</th></tr>
<tr><td rowspan="5"></td><td colspan="2">Parallel I/O</td><td colspan="4">• 1 line mode: 13 inputs/26 outputs
• 2 line random trigger mode: 17 inputs/29 outputs</td><td colspan="2">・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.</td></tr>
<tr><td colspan="2">Encoder Interface</td><td colspan="4">None</td><td colspan="2">Input voltage: 5 V ± 5%
Signal: RS-422A Line Driver Level
Phase A/B/Z: 1 MHz</td></tr>
<tr><td colspan="2">Monitor Interface</td><td colspan="4">Analog RGB video output × 1</td><td colspan="2">DVI-I output (Analog RGB & DVI-D single link) x 1</td></tr>
<tr><td colspan="2">USB I/F</td><td colspan="4">USB2.0 host × 4 (BUS Power: Port 5 V)</td><td colspan="2">USB2.0 host x 2 (BUS Power: 5 V/0.5 A per port)
USB3.0 host x 2 (BUS Power: 5 V/0.9 A per port)</td></tr>
<tr><td colspan="2">SD Card I/F</td><td colspan="4">None</td><td colspan="2">SDHC x 1</td></tr>
<tr><td rowspan="5">Indicator Lamps</td><td colspan="2">Main</td><td colspan="4">POWER: Green
ERROR: Red
RUN: Yellow</td><td colspan="2">POWER: Green
ERROR: Red
RUN: Green
ACCESS: Yellow</td></tr>
<tr><td colspan="2">Ethernet</td><td colspan="4">NET RUN: Green
LINK/ACT: Yellow</td><td colspan="2">NET RUN1: Green
LINK/ACT1: Yellow
NET RUN2: Green
LINK/ACT2: Yellow</td></tr>
<tr><td colspan="2">SD Card</td><td colspan="4">None</td><td colspan="2">SD POWER: Green
SD BUSY: Yellow</td></tr>
<tr><td colspan="2">EtherCAT</td><td colspan="4">None</td><td colspan="2">ECAT RUN: Green
LINK/ACT IN: Green
LINK/ACT OUT: Green
ECAT ERR: Red</td></tr>
<tr><td colspan="3">Power-supply voltage</td><td colspan="4">20.4 VDC to 26.4 VDC</td><td colspan="2">20.4 VDC to 26.4 VDC</td></tr>
<tr><td rowspan="4">Current consumption</td><td rowspan="2">When connected to a Controller</td><td>Connected to 2 cameras</td><td colspan="2">5.0 A max.</td><td rowspan="2" colspan="2">7.5 A max.</td><td>5.6A max.</td><td rowspan="2">7.7A max.</td></tr>
<tr><td>Connected to 4 cameras</td><td colspan="2">-</td><td>-</td></tr>
<tr><td rowspan="2">When not connected to Controller</td><td>Connected to 2 cameras</td><td colspan="2">3.7 A max.</td><td rowspan="2" colspan="2">4.9 A max.</td><td>4.5A max.</td><td rowspan="2">5.5A max.</td></tr>
<tr><td>Connected to 4 cameras</td><td colspan="2">-</td><td>-</td></tr>
<tr><td colspan="3">Built-in FAN</td><td colspan="4">Yes</td><td colspan="2">Yes</td></tr>
</table>

Item			Product discontinuation Model FZ5-1200 Series				Recommendable replacement Model FH-5050 Series	
Model			**FZ5-1200**	**FZ5-1205**	**FZ5-1200-10**	**FZ5-1205-10**	**FH-5050**	**FH-5050-10**
Usage Environment	**Ambient temperature range**		Operating: 0°C to 45°C (When the built-in FAN is set to slow rotation.) Operating: 0°C to 50°C (When the built-in FAN is set to fast rotation.) Storage: -20 to +65°C				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%RH (with no condensation)				Operating and storage: 35 to 85% (with no condensation)	
	Ambient atmosphere		No corrosive gases				No corrosive gases	
	Vibration tolerance		Oscillation frequency: 10 to 150 Hz Half amplitude: 0.1mm Acceleration: 15m/s^2 Sweep time: 8 minute/count Sweep count: 10 times Vibration direction: up and down/front and behind/left and right				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: 150m/s^2 Test direction: up and down/front and behind/left and right				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: 2kV, Pulse rising: 5ns, Pulse width: 50ns, Burst continuation time: 15ms/0.75ms, Period: 300ms, Application time: 1min. • I/O line Direct infusion: 1kV, Pulse rising: 5ns, Pulse width: 50ns, Burst continuation time: 15ms/0.75ms, Period: 300ms, Application time: 1 min				• DC power Direct infusion: 2kV, Pulse rising: 5ns, Pulse width: 50ns, Burst continuation time: 15ms/0.75ms, Period: 300ms, Application time: 1min. • I/O line Direct infusion: 1kV, Pulse rising: 5ns, Pulse width: 50ns, Burst continuation time: 15ms/0.75ms, Period: 300ms, Application time: 1 min	
	Grounding		Class D grounding (100 Ω or less grounding resistance) *2				Class D grounding (100 Ω or less grounding resistance) *2	
External Features	**Dimensions**		260mm × 308mm × 83mm		260mm × 308mm × 104mm		190mm x 115mm x 182.5mm Note Height: Including the rubber at the base.	
	Weight		Approx. 3.2 kg		Approx. 3.4 kg		Approx.3.4kg	Approx.3.6kg
	Degree of protection		IEC60529 IP20				IEC60529 IP20	
	Case material		ABS				Cover: zinc-plated steel plate, Side plate: aluminum (A6063)	

*1. This can be increased up to 1024 using the Scene group conversion tool.
*2. Existing the third class grounding

<table>
<tr><th colspan="3">Item</th><th colspan="2">Product discontinuation
Model FZ5-800 Series
Model FZ5-1200 Series</th><th>Recommendable replacement
Model FH-MT12</th></tr>
<tr><td colspan="3">Model</td><td>FZ5-800
FZ5-805
FZ5-1200
FZ5-1205</td><td>FZ5-800-10
FZ5-805-10
FZ5-1200-10
FZ5-1205-10</td><td>FH-MT12</td></tr>
<tr><td colspan="3">Display area</td><td colspan="2">12.1 inch</td><td>12.1 inch</td></tr>
<tr><td colspan="3">Resolution</td><td colspan="2">1024 (V) x 768 (H)</td><td>1024 (V) x 768 (H)</td></tr>
<tr><td colspan="3">Supply Voltage</td><td colspan="2">20.4 VDC to 26.4 VDC</td><td>21.6 VDC to 26.4 VDC</td></tr>
<tr><td rowspan="2">External interface</td><td colspan="2">Video input</td><td colspan="2">-</td><td>analog RGB</td></tr>
<tr><td colspan="2">Touch panel signal</td><td colspan="2">-</td><td>USB, RS-232C</td></tr>
<tr><td rowspan="4">Current consumption</td><td rowspan="2">When connected to a Controller</td><td>Connected to 2 cameras</td><td>5.0 A max.</td><td rowspan="2">7.5 A max.</td><td rowspan="4">0.5A</td></tr>
<tr><td>Connected to 4 cameras</td><td>-</td></tr>
<tr><td rowspan="2">When not connected to Controller</td><td>Connected to 2 cameras</td><td>3.7 A max.</td><td rowspan="2">4.9 A max.</td></tr>
<tr><td>Connected to 4 cameras</td><td>-</td></tr>
<tr><td colspan="3">Insulation resistance</td><td colspan="2">-</td><td>Between DC power supply and Touch Panel Monitor FG: 20MΩ or higher (rated voltage 250 V)</td></tr>
<tr><td rowspan="4">Usage Environment</td><td colspan="2">Ambient temperature range</td><td colspan="2">Operating: 0°C to 45°C (When the built-in FAN is set to slow rotation.)
Operating: 0°C to 50°C (When the built-in FAN is set to fast rotation.)
Storage: -20 to +65°C</td><td>Operating: 0 to +50°C, Storage: -20 to +65°C (with no icing or condensation)</td></tr>
<tr><td colspan="2">Ambient humidity range</td><td colspan="2">Operating and Storage: 35 to 85%RH (with no condensation)</td><td>Operating and Storage: 20 to 90% (with no icing or condensation)</td></tr>
<tr><td colspan="2">Ambient atmosphere</td><td colspan="2">No corrosive gases</td><td>No corrosive gases</td></tr>
<tr><td colspan="2">Vibration tolerance</td><td colspan="2">Oscillation frequency: 10 to 150 Hz
Half amplitude: 0.1mm
Acceleration: 15m/s^2
Sweep time: 8 minute/count
Sweep count: 10 times
Vibration direction: up and down/front and behind/left and right</td><td>10 to 150 Hz, one-side amplitude 0.1 mm (Max. acceleration 15 m/s^2), 10 times for 8 minutes for each three direction</td></tr>
<tr><td rowspan="4">External Features</td><td colspan="2">Dimensions</td><td>260mm × 308mm × 83mm</td><td>260mm × 308mm × 104mm</td><td>264mm ×332mm ×58.5mm</td></tr>
<tr><td colspan="2">Weight</td><td>Approx. 3.2 kg</td><td>Approx. 3.4 kg</td><td>Approx. 2.6 kg</td></tr>
<tr><td colspan="2">Degree of protection</td><td colspan="2">IIEC60529 IP20</td><td>Panel mounting: IP65 on the front</td></tr>
<tr><td colspan="2">Case material</td><td colspan="2">ABS</td><td>Front panel: PC/PBT, Front Sheet: PET, Rear case: SUS</td></tr>
</table>

[Operation ratings / Operation methods]

Product discontinuation Model FZ5-800, FZ5-805 Model FZ5-800-10, FZ5-805-10 Model FZ5-1200, FZ5-1205 Model FZ5-1200-10, FZ5-1205-10	Recommendable replacement Model FH-2050 Model FH-2050-10 Model FH-5050 Model FH-5050-10 Model FH-MT12
It doesn't change much. For details on the operation method, refer to the following manual. - Vision System User's Manual (Z365) - Vision System User's Manual (Communications Settings) (Z342) - Vision System Hardware Setup Manual (Z366) - Vision System Processing Item Function Reference Manual (Z341) - 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.