

Discontinuation Notice of Vision Sensor of FZ4-L35 series.**Product Discontinuation**

Vision Sensor Controllers



Model FZ4-L350
Model FZ4-L350-10
Model FZ4-L355
Model FZ4-L355-10

**Recommended Replacement**

Vision Sysytem Sensor Controllers

Model FZ5-L350
Model FZ5-L350-10
Model FZ5-L355
Model FZ5-L355-10

[Discontinuation date]

The end of October, 2015

[Caution on recommended replacement]**About the use of the remodeling software**

It is necessary to verify the operation if the remodeling software are used.

Please inquire of the trading company dealing our products including the version up to the remodeling.

[Difference from discontinued product]

Recommended replacement Model	Body Color	Dimen-sions	Wire connection	Mounting Dimensions	Charact-eristics	Operation ratings	Operation methods
FZ5-L350	**	**	**	**	**	**	*
FZ5-L350-10	**	**	**	**	**	**	*
FZ5-L355	**	**	**	**	**	**	*
FZ5-L355-10	**	**	**	**	**	**	*

** : Compatible

* : The change is a little/Almost compatible

-- : Not compatible

- : No corresponding specification

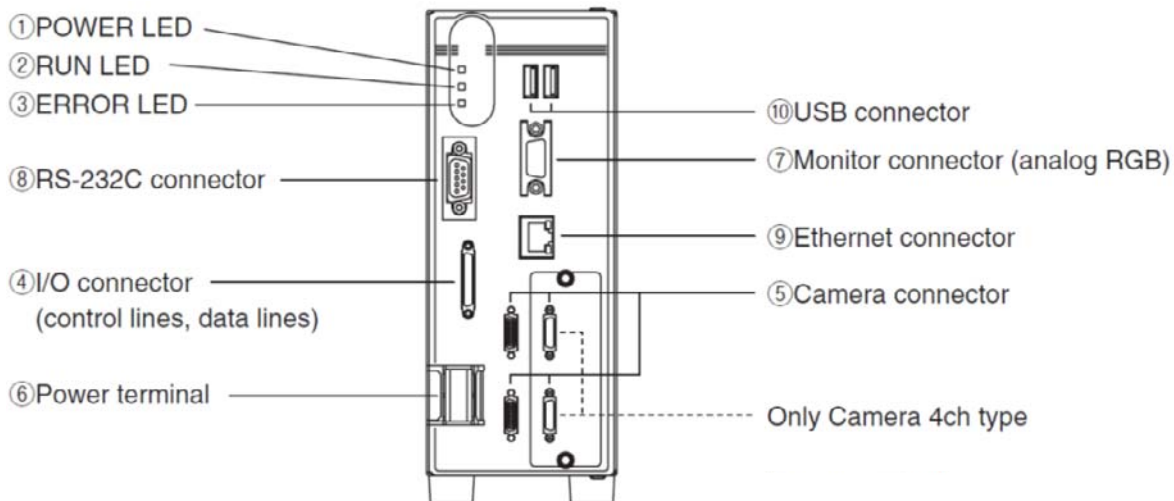
[Product Discontinuation and recommended replacement]

Product discontinuation	Recommended replacement
FZ4-L350	FZ5-L350
FZ4-L350-10	FZ5-L350-10
FZ4-L355	FZ5-L355
FZ4-L355-10	FZ5-L355-10

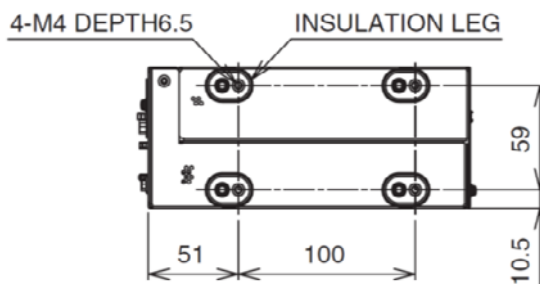
[Body color]

Product discontinuation Model FZ4-L35 Series	Recommendable replacement Model FZ5-L35 Series
	

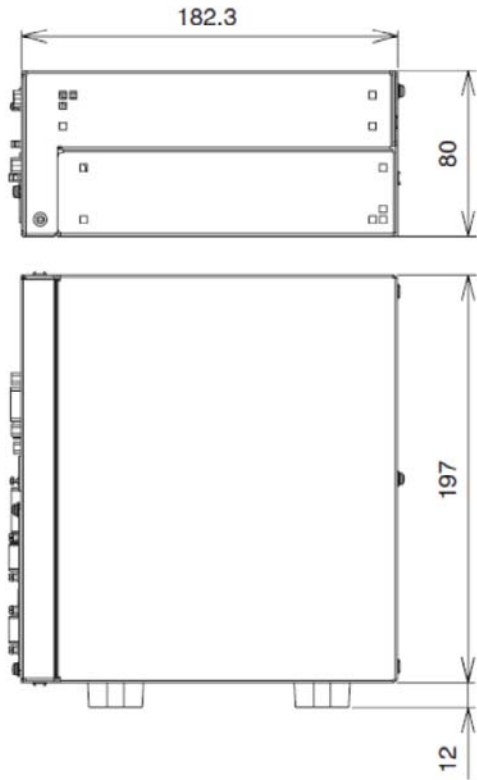
[Wire connection]

Product discontinuation Model FZ4-L35 Series	Recommendable replacement Model FZ5-L35 Series
 ①POWER LED ②RUN LED ③ERROR LED ⑧RS-232C connector ④I/O connector (control lines, data lines) ⑥Power terminal ⑩USB connector ⑦Monitor connector (analog RGB) ⑨Ethernet connector ⑤Camera connector Only Camera 4ch type	

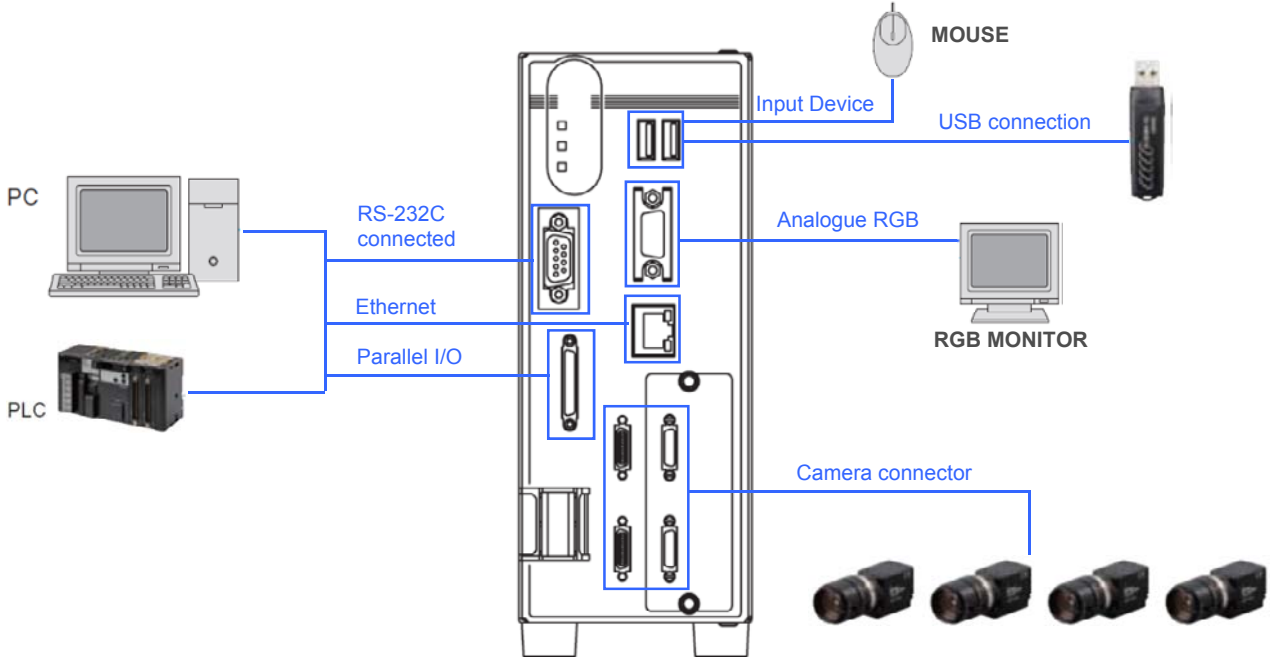
[Mounting dimensions]

Product discontinuation Model FZ4-L35 Series	Recommendable replacement Model FZ5-L35 Series
 4-M4 DEPTH 6.5 INSULATION LEG 51 100 59 10.5	

[Dimensions]

Product discontinuation Model FZ4-L35 Series	Recommendable replacement Model FZ5-L35 Series
	

[System Configuration]

Product discontinuation Model FZ4-L35 Series	Recommendable replacement Model FZ5-L35 Series
	

[Specifications]

Specifications

Item		Product discontinuation Model FZ4-L35[] Series		Recommendable replacement Model FZ5-L35[] Series	
Model	NPN	FZ4-L350	FZ4-L350-10	FZ5-L350	FZ5-L350-10
	PNP	FZ4-L355	FZ4-L355-10	FZ5-L355	FZ5-L355-10
Controllers type		Box 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.)			
No. of scenes		32		128	
Operation		Mouse etc.			
Settings		Create series of processing steps by editing the flowchart (Help messages provided).			

[Processing resolution]

Item	Product discontinuation Model FZ4-L35[] Series	Recommendable replacement Model FZ5-L35[] Series
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	1,600 (H) × 1,200 (V)	
When connected to a 5 million-pixel camera	2,448 (H) × 2,044 (V)	

[Number of logged images ^{*1}]

Item			Product discontinuation Model FZ4-L35[] Series	Recommendable replacement Model FZ5-L35[] Series
When connected to a 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 300,000-pixel camera	Connected to 1 camera	Color	250	250
		Monochrome	252	252
	Connected to 2 cameras	Color	125	125
		Monochrome	126	126
	Connected to 3 cameras	Color	83	83
		Monochrome	84	84
	Connected to 4 cameras	Color	62	62
		Monochrome	63	63
When connected to a 2 million-pixel camera	Connected to 1 camera	Color	40	40
		Monochrome	40	40
	Connected to 2 cameras	Color	20	20
		Monochrome	20	20
	Connected to 3 cameras	Color	13	13
		Monochrome	13	13
	Connected to 4 cameras	Color	10	10
		Monochrome	10	10
When connected to a 5 million-pixel camera	Connected to 1 camera	Color	11	11
		Monochrome	11	11
	Connected to 2 cameras	Color	5	5
		Monochrome	5	5
	Connected to 3 camera	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.

[Ratings]

Item		Product discontinuation		Recommendable replacement	
		FZ4-L350 FZ4-L355	FZ4-L350-10 FZ4-L355-10	FZ5-L350 FZ5-L355	FZ5-L350-10 FZ5-L355-10
Power supply voltage		20.4 to 26.4 VDC			
Current consumption (at 24.0 VDC) *1	When connected to a intelligent compact camera	4.0 A max.	5.5 A max.	4.0 A max.	5.5 A max.
	When connected to a 300,000-pixel camera	2.6 A max.	2.9 A max.	2.6 A max.	2.9 A max.
	When connected to a 2 million-pixel camera				
	When connected to a 5 million-pixel camera				
Weight		Approx. 1.8 kg			
Accessories		Instruction Manual			

Note 1. The current consumption when the maximum number of cameras supported by each controller are connected.

If a strobe controller model is connected to a lamp, the current consumption is as high as when an intelligent camera is connected.

[Operation Environment]

Item		Product discontinuation Model FZ4-L35[] Series	Recommendable replacement Model FZ5-L35[] Series
Ambient temperature range	Operating	0 to 50°C	
	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 FZ4-L35[] Series	Recommendable replacement Model FZ5-L35[] Series
Serial communications	RS-232C: 1CH	
EtherNet communications	Ethernet 1000BASE-T/100BASE-TX/10BASE-T	
EtherNet/IP communications	Ethernet port baud rate: 100Mbps (100BASE-TX)	
Parallel I/O	<u>11 inputs</u> RESET, STEP0, DSA0, DI0~7 <u>26 outputs</u> RUN, BUSY0, GATE0, OR0, READY0, ERROR, STGOUT0~3, DO0~15 * STGOUT2 to 3 only for camera 4 ch type	
Monitor interface	Analog RGB video output, 1 channel (Resolution: XGA 1,024 × 768 dots)	
USB interface	2 channels (supports USB 1.1 and 2.0)	

[Processing Items]

Item		Product discontinuation Model FZ4-L35[] Series	Recommendable replacement Model FZ5-L35[] Series
Inspections / Measurement	Search	YES	YES
	Flexible Search	YES	YES
	Sensitive Search	YES	YES
	ECM Search	YES	YES
	EC Circle Search	YES	YES
	Shape Search+	YES	NO
	Shape Search II	YES	YES
	Shape Search III	NO	YES
	EC Corner	YES	YES
	EC Cross	NO	YES
	Classification	NO	YES
	Edge Position	YES	YES
	Edge Pitch	YES	YES
	Scan Edge Position	YES	YES
	Scan Edge Width	YES	YES
	Circular Scan Edge Position	YES	YES
	Circular Scan Edge Width	YES	YES
	Intersection	NO	YES
	Color Data	YES	YES
	Gravity and Area	YES	YES
	Labeling	YES	YES
	Label Data	YES	YES
	Labeling+	YES	NO
	Defect	YES	YES
	Precise Defect	YES	YES
	Fine Matching	YES	YES
	Character Inspection	YES	YES
	Date Verification	YES	YES
	Model Dictionary	YES	YES
	Barcode+ *1	YES	NO
	Barcode *1	NO	YES
	2D Code *2	YES	YES
	2D Code+ *2	YES	NO
	OCR User Dictionary	NO	YES
	OCR	NO	YES
	Circle Angle	YES	YES
	Glue Bead Inspection	NO	YES
Input image	Camera Image Input	YES	YES
	Camera Image Input FH	NO	YES
	Camera Image Input HDR	YES	YES
	Camera Image Input HDR Lite	YES	YES
	Camera Switching	YES	YES
	Measurement Image Switching	YES	YES

*1. Bar Codes that can be read:

JAN/EAN/UPC (including add-on codes), Code 39, Codabar (NW-7), IFT (Interleaved 2 of 5), Code 93, Code128, GS1 DataBar (RSS-14/RSS Limited/RSS Expanded), PharmaCode

*2. 2D Codes that can be read: Data Matrix, QR Code

[Processing Items]

Item		Product discontinuation Model FZ4-L35[] Series	Recommendable replacement Model FZ5-L35[] Series
Correcting Images	Position compensation	YES	YES
	Trapezoidal Correction	NO	YES
	Trapezoidal Correction+	YES	NO
	Filtering	YES	YES
	Background Suppression	YES	YES
	Brightness Correct filter	YES	YES
	Color Gray filter	YES	YES
	Extract Color Filter	YES	YES
	Anti Color shading	YES	YES
	Stripes Removal Filter+	YES	NO
	Stripes Removal Filter II	YES	YES
	Halation Cut+	YES	NO
	Panorama+	YES	NO
	Polar Transformation	YES	YES
	Machine Simulator	NO	YES
	Image Subtraction	NO	YES
	Advanced Filter	NO	YES
	Panorama	NO	YES

[Processing Items]

Item		Product discontinuation Model FZ4-L35[] Series	Recommendable replacement Model FZ5-L35[] Series
Assisting inspections / Measurement	Unit Macro	NO	YES
	Unit calculation macro	NO	YES
	Calculation	YES	YES
	Line Regression	YES	YES
	Circle Regression	YES	YES
	Calibration+	YES	NO
	Precise Calibration	YES	YES
	User Data	YES	YES
	Set Unit data	YES	YES
	Get Unit Data	YES	YES
	Set Unit Figure	YES	YES
	Get Unit Figure	YES	YES
	Trend Monitor	YES	YES
	Image Logging	YES	YES
	Image Conversion Logging	YES	YES
	Data Logging	YES	YES
	Elapsed Time	YES	YES
	Wait	YES	YES
	focus	YES	YES
	Iris	YES	YES
	Parallelize	NO	YES
	Parallelize Task	NO	YES
	Statistics	NO	YES
	Reference Calib Data	NO	YES
	Position Data calculation	NO	YES
	Robot Data	NO	YES
	Vision Master Calibration	NO	YES
	PLC Master Calibration	NO	YES
	Convert Position Data	NO	YES
	Movement Single Position	NO	YES
	Movement Multi Points	NO	YES
	Detection Point	NO	YES
	Camera calibration	NO	YES
	Data Save	NO	YES
	Stage Data	NO	YES
Branching processing	Conditional Branch	YES	YES
	End	YES	YES
	DI branch	YES	YES
	Control Flow Normal	YES	YES
	Control Flow PLC Link	YES	YES
	Control Flow Parallel	YES	YES
	Control Flow Fieldbus	YES	YES
	Selective Branch	NO	YES
Outputting results	Data Output	YES	YES
	Parallel Data Output	YES	YES
	Parallel Judgement Output	YES	YES
	Fieldbus Data Output	YES	YES
Displaying results on the monitor	Result Display	YES	YES
	Display Image File	YES	YES
	Display Last NG Image	YES	YES

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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.