

NO: VS-064 **PRODUCT:** FZ4-L35 Vision Controllers
DATE: July 2015 **TYPE:** Discontinuation Notice

FZ4-L35 Vision Controllers will be Discontinued; Replace with FZ5-L35 Series

Discontinuation date: September 2015
 Note: Date is subject to change based on raw materials and components availability at the factory.



Affected Parts

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

Detail of Differences

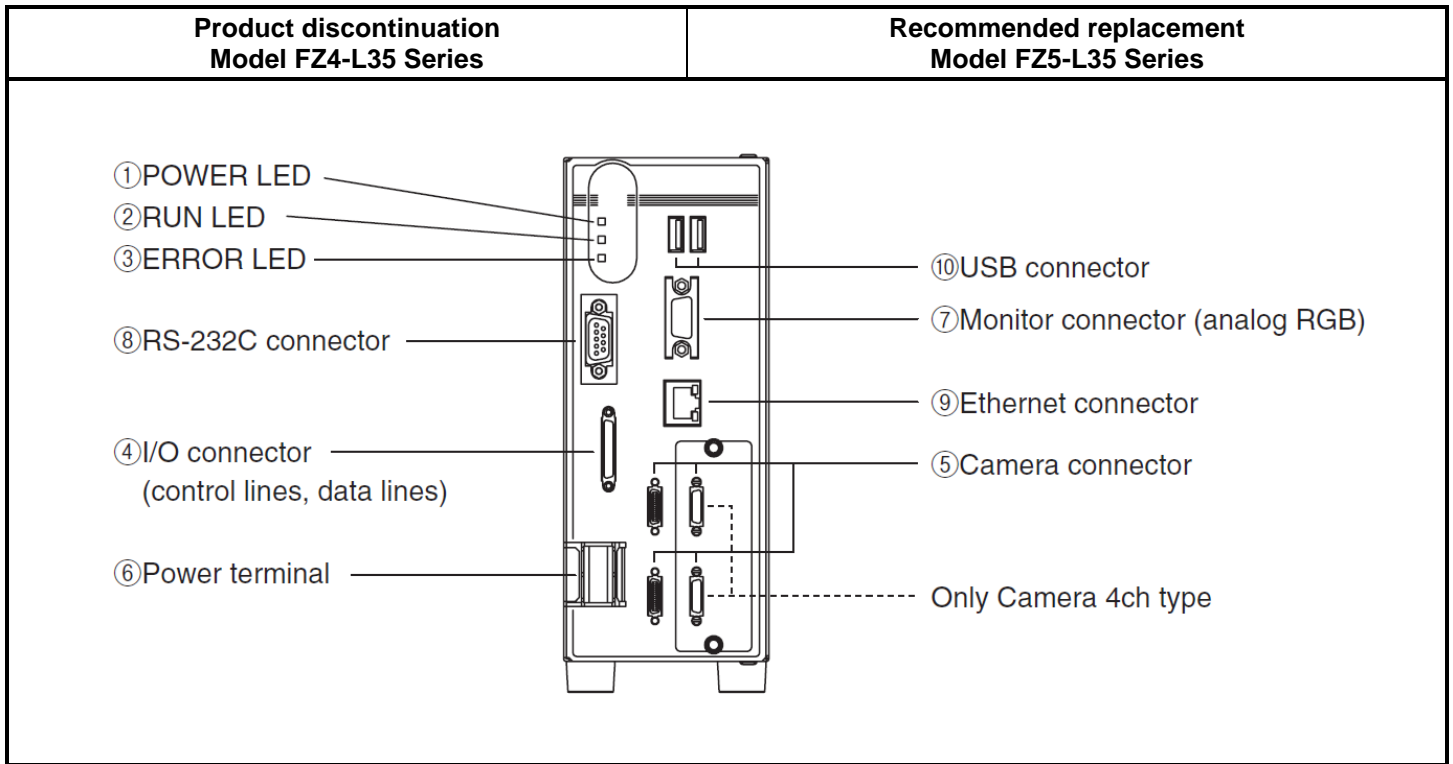
Reference Documentation

Description	Media	Publication number
FZ4 Vision System Brochure	PDF	Q189-E1-02
FZ5 and FH Vision Systems Brochure	PDF	Q197-E3-01A

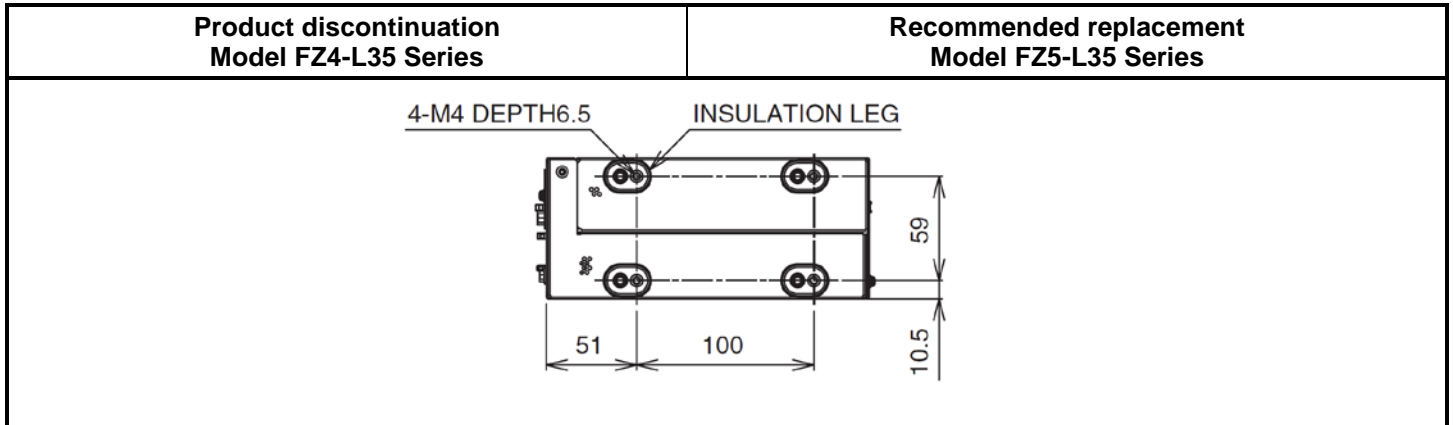
Body Color

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

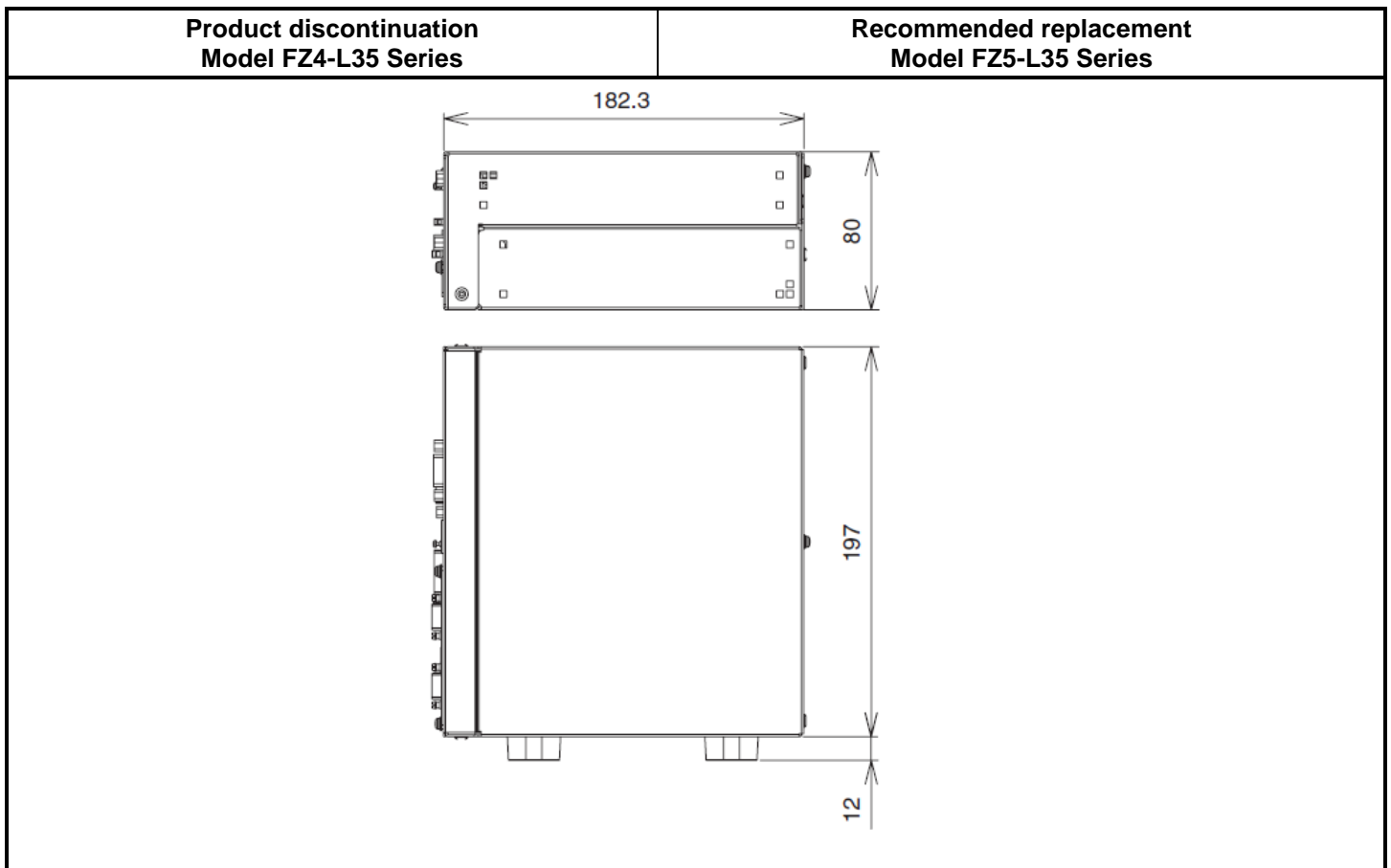
Wire Connection



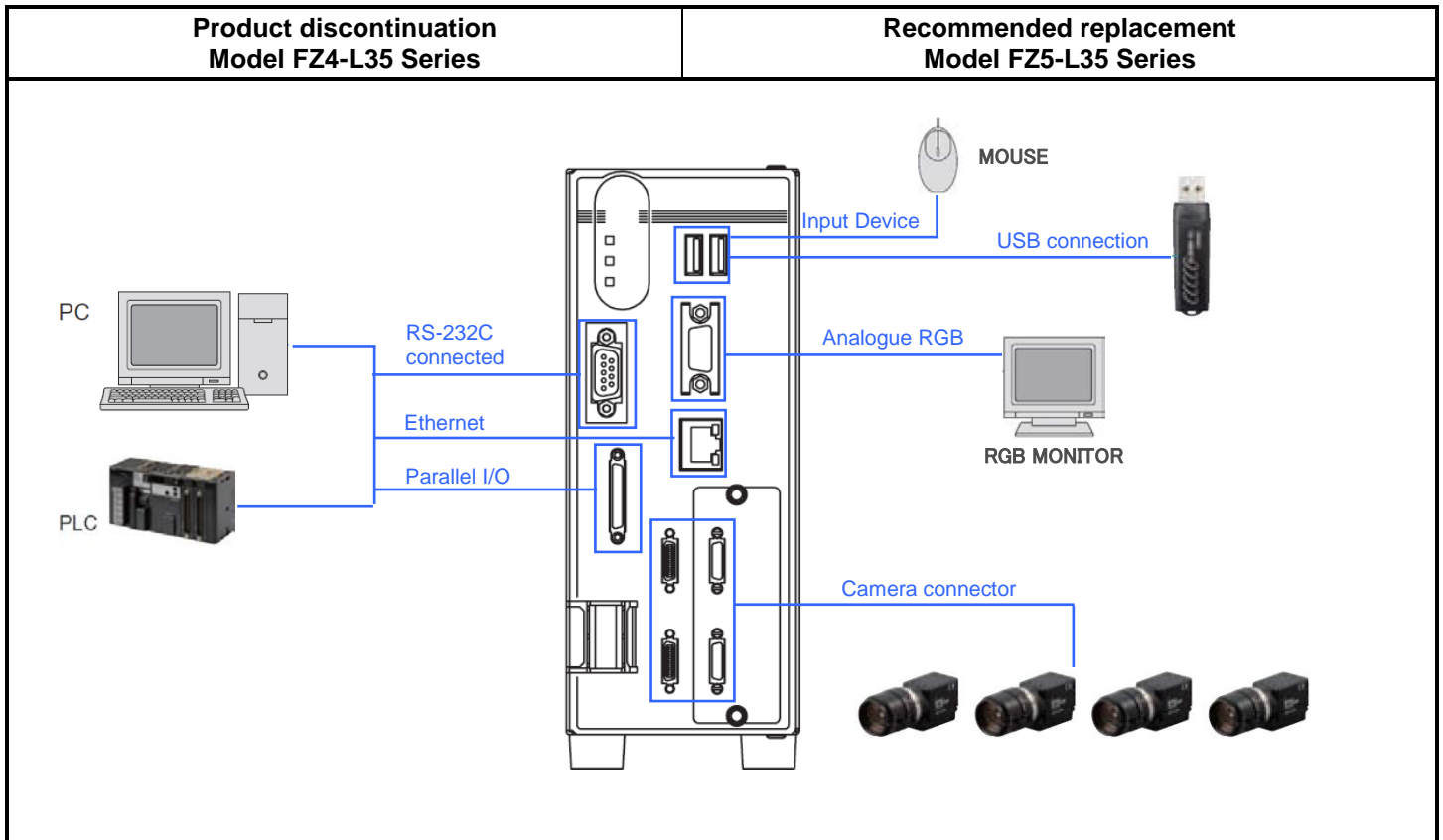
Mounting Dimensions



Dimensions



System Configuration



Specifications

Item		Product discontinuation Model FZ4-L35x Series		Recommended replacement Model FZ5-L35x 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-L35x Series	Recommended replacement Model FZ5-L35x 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	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 FZ4-L35x Series	Recommended replacement Model FZ5-L35x Series
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 300,000-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	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	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.

Ratings

Item		Product discontinuation		Recommended replacement	
		FZ4-L350 FZ4-L355	FZ4-L350-10 FZ4-L355-10	FZ5-L350 FZ5-L355	FZ5-L350-10 FZ5-L355-10
Power supply voltage		DC20.4 ~26.4V			
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	2.6A 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, 1.8kg			
Accessories		Instruction Manual			

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.

Operation Environment

Item		Product discontinuation Model FZ4-L35x Series	Recommended replacement Model FZ5-L35x 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-L35x Series	Recommended replacement Model FZ5-L35x Series
Serial communications	RS-232C: 1CH	
EtherNet communications	Ethernet 100BASE-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 to 7 <u>26 outputs</u> RUN, BUSY0, GATE0, OR0, READY0 ERROR, STGOUT0 to 3, DO0 to15 * STGOUT2 to 3 only for camera 4 CH type	
Monitor interface	Analog RGB video output, 1 channel (Resolution : XGA 1,024 x 768 dots)	
USB interface	2 channels (supports USB 1.1 and 2.0)	

Processing Items

Item		Product discontinuation Model FZ4-L35x Series	Recommended replacement Model FZ5-L35x 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+	NO	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+	NO	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	NO	YES
	Barcode+ *1	NO	NO
	2D Code *2	YES	YES
	2D Code+ *2	NO	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	NO
	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), PhamaCode

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

Processing Items

Item		Product discontinuation Model FZ4-L35x Series	Recommended replacement Model FZ5-L35x Series
Correcting Images	Position compensation	YES	YES
	Trapezoidal Correction	NO	YES
	Trapezoidal Correction+	NO	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+	NO	NO
	Stripes Removal Filter II	YES	YES
	Halation Cut+	NO	NO
	Panorama+	NO	NO
	Polar Transformation	YES	YES
	Machine Simulator	NO	YES
	Image Subtraction	NO	YES
	Advanced Filter	NO	YES
	Panorama	NO	YES
Assisting inspections / Measurement	Unit Macro	NO	YES
	Unit Calculation Macro	NO	YES
	Calculation	YES	YES
	Line Regression	YES	YES
	Circle Regression	YES	YES
	Calibration+	NO	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 Calibration 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	

Processing Items

Item		Product discontinuation Model FZ4-L35x Series	Recommended replacement Model FZ5-L35x Series
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 Judgment 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

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.