



NO: BC-010 DATE: April 2015

PRODUCT: TYPE: V530-R Code Readers Discontinuation Notice

V530-R Fixed Type 2D Code Readers and F150-2D and F160-S2-2D Peripherals to be Discontinued

Last order date: February 2016

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



2D Code Reader (For punch marking) Model V530-R160 series

Product Discontinuation

Model F150-S1A-2D Model F150-M05L-2D Model F150-KP-2D Model F150-VS-2D Model F150-VM-2D

2D Code Reader (High performance type) Model V530-R2000 series Model F160-S2-2D



Model FQ2-S4xxxx-M No recommended replacement No recommended replacement No recommended replacement No recommended replacement No recommended replacement

Name of products Model FQ2-S4xxxxx-M No recommended replacement

Caution on Applying Recommended Replacement

The F150-2D and F160-S2-2D cameras, cables and peripherals cannot be used with FQ2-S4 replacement model. All parts of the code reader system must be replaced.

Affected Parts

Product discontinuation	Recommended replacement
	FQ2-S40010F-M
V530-R160	FQ2-S40050F-M
V550-R100	FQ2-S40100F-M
	FQ2-S40100N-M
	FQ2-S40010F-M
V530-R160E	FQ2-S40050F-M
V550-R160E	FQ2-S40100F-M
	FQ2-S40100N-M
	FQ2-S45010F-M
V530-R160EP	FQ2-S45050F-M
V330-R100EF	FQ2-S45100F-M
	FQ2-S45100N-M

Product discontinuation	Recommended replacement
	FQ2-S40010F-M
V530-R2000	FQ2-S40050F-M
V550-R2000	FQ2-S40100F-M
	FQ2-S40100N-M
	FQ2-S45010F-M
V530-R2000P	FQ2-S45050F-M
V330-R2000P	FQ2-S45100F-M
	FQ2-S45100N-M
F160-S2-2D	No recommended replacement
F150-S1A-2D	No recommended replacement
F150-M05L-2D	No recommended replacement
F150-KP-2D 2M	No recommended replacement
F150-KP-2D 5M	No recommended replacement
F150-KP-2D 10M	No recommended replacement
F150-VS-2D 3M	No recommended replacement
F150-VS-2D 5M	No recommended replacement
F150-VS-2D 10M	No recommended replacement
F150-VS-2D 15M	No recommended replacement
F150-VS-2D 20M	No recommended replacement
F150-VS-2D 25M	No recommended replacement
F150-VS-2D 30M	No recommended replacement
F150-VM-2D 2M	No recommended replacement

Reference Documentation

Description	Media	Publication number
V530-R160 Fixed 2D Code Reader Brochure	PDF	<u>Q129-E1-1-3</u>
V530-R2000 Fixed 2D Code Reader Brochure	PDF	Q135-E1-01A
FQ2-S4 Datasheet	PDF	Q193-E1-11-2

See the following pages for detail of differences.

Detail of Differences

Body Color

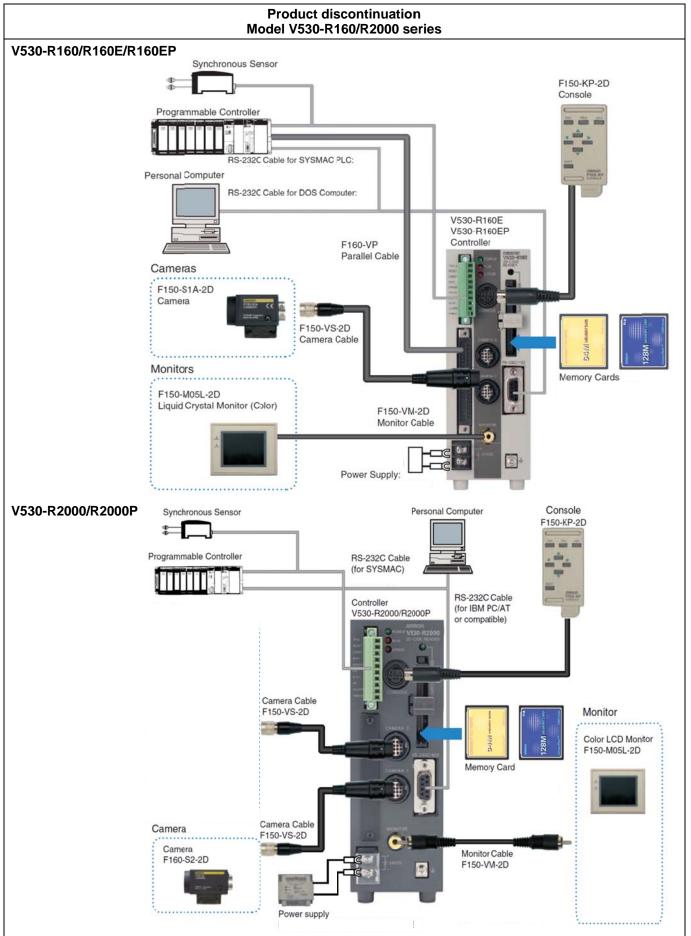
Product discontinuation	Recommended replacement
Model V530-R160/R2000 series	Model FQ2-S4xxxxx-M
Model V530-R160xx Model V530-R2000x	

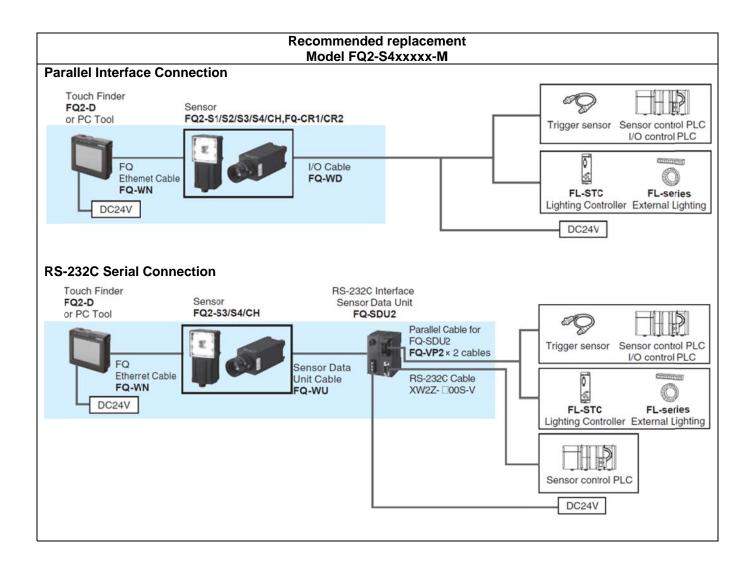
Product discontinuation	Recommended replacement
Model F160-S2-2D/F150-S1A-2D	No recommended replacement
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Product discontinuation	Recommended replacement
Model F150-M05L-2D	No recommended replacement
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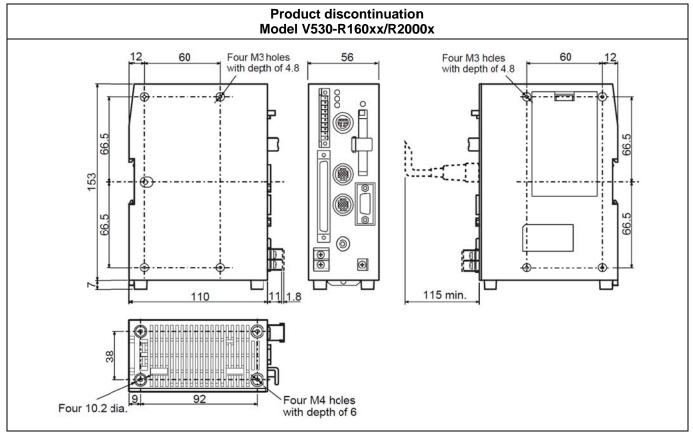
Product discontinuation	Recommended replacement
Model F150-KP-2D	No recommended replacement

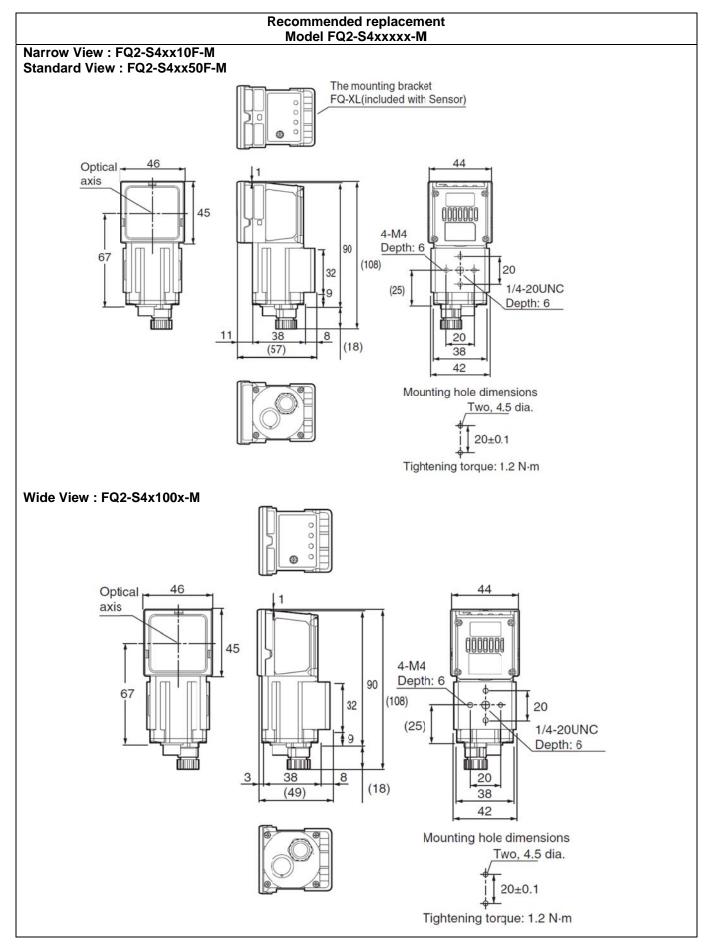
Wire Connection

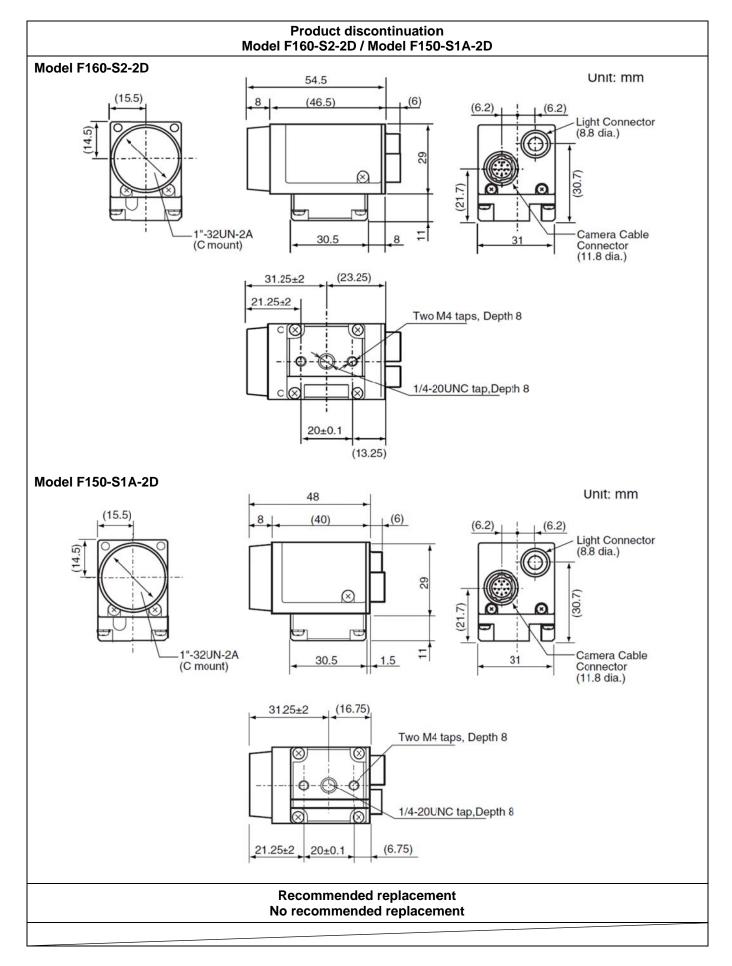


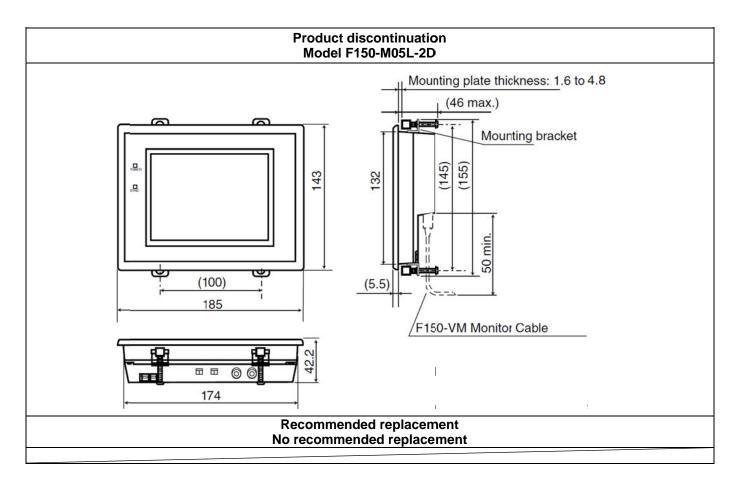


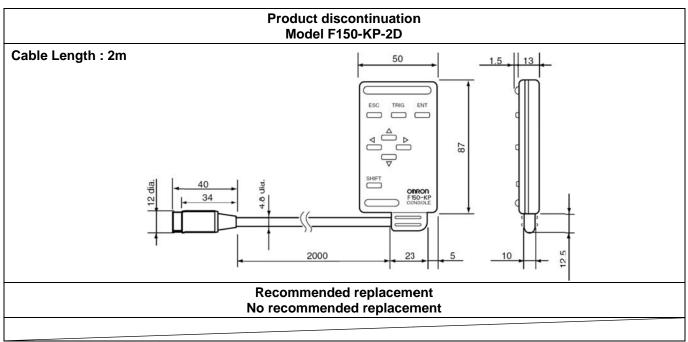
Dimensions

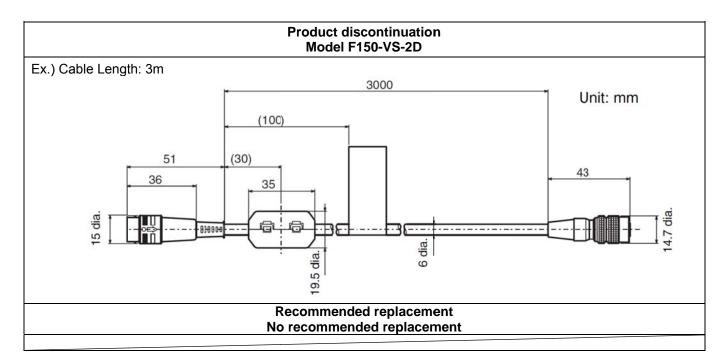


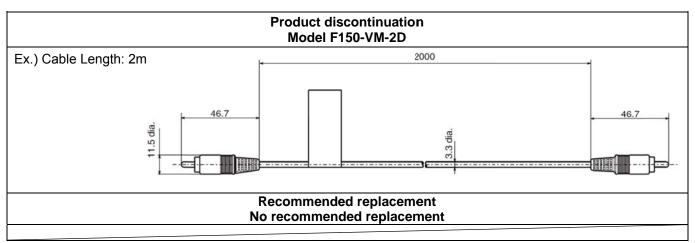












Mounting Dimensions

Recommended replacement				
Field of view	Narrow View	Standard View	Wide View (Long-distance)	Wide View (Short-distance)
Number of pixels	350,000 pixels			
NPN	FQ2-S40010F-M	FQ2-S40050F-M	FQ2-S40100F-M	FQ2-S40100N-M
PNP	FQ2-S45010F-M	FQ2-S45050F-M	FQ2-S45100F-M	FQ2-S45100N-M
Field of view/ Installation distance	38 2 4.7 57 4.7 Field of view 8.2 13	56 28.2 13 Field of view 33 53	220 23 33 53 Field of vew 970 153 240	32 2 18 19 191 300

Characteristics

lte	em	Product discontinuation		Recommended replacement	
I/O	NPN	V530-R160/R160E V530-R2000		FQ2-S40xxxx-M	
Туре	PNP	V530-R160EP	V530-R2000P	FQ2-S45xxxx-M	
Applical codes	ble 2D	Data Matrix ECC200:10×10 to 64X64, 8X18, 8X32, 12X26, 12X36, 16X36, 16X48 Data Matrix (ECC000, ECC050, ECC080, ECC100, ECC140): 9X9 to 25X25 QR Code (Model 1, 2): 21X21 to 41X41 (Version 1 to 6)	Data Matrix ECC200 10X10 to 64X64 8X18 to 16X48, QR Code (Model 1, 2) Ver.1 to 10	Data Matrix (EC200), QR Code, Micro- QR Code, PDF417, MicroPDF417, GS1-DataMatrix	
Inspecti	on items			Search, shape search II, sensitive search, area, color data, edge position, edge pitch, edge width, labeling. OCR, Bar code, 2D- code, 2D-code (DMP), and Model dictionary	
No. sim measure	ultaneous ments			32	
Readab direction		360°		Position compensation (360° Model position compensation, Edge position compensation)	
Image e	elements			1/3-inch Monochrome CMOS	
Shutter				Built-in lighting ON: 1/250 to 1/50,000s	
Lighting	method			Pulse	
Lighting	color			White	
Process		512 (H) X 484 (V)		752 (H) X 480 (V)	
No. con camera	nectable s	2 max.			
Connec camera		F150-S1A-2D	F160-S2-2D		
Image r function		Maximum of 35 images stored (internal memory in Controller).		In Sensor: 20 images (If a Touch Finder is used, images can be saved up to the capacity of an SD card.)	
Operatio	n method	Selected from menu.			
Processir	ng method	Monochrome Gray			
CF Care	d I/F	1 slot		-	
Monitor	I/F	Composite video output: 1 channel (Monochrome/Color)		-	
Ethernet specifica		_		100BASE-TX/10BASE-T	
Serial commu	nications	RS-232C/422A 1 channel		Possible by connecting FQ-SDU2_ Sensor Data Unit.	
Parallel	I/O	5 inputs and 6 outputs	2 inputs 5 outputs	Possible by connecting FQ-SDU1_ Sensor Data Unit.	
Power s voltage	supply	20.4 to 26.4 VDC		21.6 to 26.4 VDC (including ripple)	
Current co	onsumption	Approx. 1.6A max.		Approx. 2.4A max.	
Ambien Temper	ature	Operating: 0 to 50°C Storage: -25 to 65°C (with no icing or condensation)		Operating: 0 to 40°C Storage: -25 to 65°C (with no icing or condensation)	
Ambient	humidity	Operating and storage: 35% to 85%	6 RH (with no cond		
Weight		Approx. 570g		Narrow View/Standard View:Approx.160 g Wide View:Approx.150 g	

Item	Product discontinuation		Recommended replacement
Model	F160-S2-2D F150-S1A-2D		No recommended replacement
Color/Monochrome	Monochrome		
Current consumption	Approx. 1.7W Max.	Approx. 1.2W Max.	
Vibration resistance	10 to 150Hz, one-side amplitude 0.35mm (Max. acceleration 50m/s ²) 10 times for 8 minutes for each three directions		
Shock resistance	150m/s ² : 3 times each i	n 6 directions	
Ambient temperature	Operating: 0 to 50°C Sto (with no icing or condens		
Ambient humidity	Operating and storage: 3 (with no condensation)	35% to 85%	
Materials	Cover: Galvanized steel sheet metal Case: Die-cast aluminum alloy Camera mounting base: Fiber-reinforced plastic (black)		
Picture element	1/3-inch interline CCD (r	eading all pixels)	
Effective pixels	659 (H) × 494 (V)		
Synchronization	External sync. via horizontal sync signal		
Shutter speed (Electronic shutter)	1/120,1/200,1/500, 1/1000,1/2000,1/4000, 1/8000,1/20000s	1/100,1/500,1/2000, 1/10000s	
Partial function	Supported Not supported		
Lens mounting	C mount		
Weight	Approx. 85g Approx. 80g		

ltem	Product discontinuation F150-M05L-2D	Recommended replacement No recommended replacement
Panel size	5.7 inches	
Panel type	TFT color liquid crystal	
Resolution	640 X 480 dots	
Contrast	850 : 1 (typical)	
Viewable angle	80° up/down and 60° left/right (with a contrast ratio > 10:1)	
Luminance	400 cd/m ² (typical)	
Backlight	White LED	
Input signal	NTSC composite video (1.0 V/75 Ω termination)	
Power supply voltage	20.4 to 26.4 VDC	
Current consumption	Approx. 0.7A Max.	
Vibration resistance	10 to 150 Hz; half-amplitude: 0.1 mm; maximum acceleration: 15 m/s ² , 10 times for 8 minutes each in 3 directions	
Ambient temperature range	Operating: 0 to 50 °C (with no condensation) Storage: -25 to 65 °C (with no condensation)	
Ambient humidity range	35% to 85% RH (with no condensation)	
Degree of protection	IEC60529 IP20 (in-panel)	
Materials	Case: ABS/PC Display surface: PMMA (Acrylic)	
Weight	Approx. 1kg	

Item	Product discontinuation	Recommended replacement
	F150-KP-2D	No recommended replacement
Vibration resistance	10 to 150 Hz; half-amplitude: 0.15 mm; 4 times for 8 minutes each in 3 directions	
Shock resistance	196 m/s ² ; 3 times each in 6 directions	
Ambient temperature range	Operating: 0 to 50 °C (with no condensation) Storage: -25 to 65 °C (with no condensation)	
Ambient humidity range	35% to 85% RH (with no condensation)	
Ambient environment	No corrosive gases	
Degree of protection	IEC60529 IP20 (in-panel)	
Minimum bending radius	75mm	
Materials	Body: ABS Cable sheathing: Heat-resistant chlorinated vinyl Connector: PC and PBT	
Weight	Approx. 135g	

Item	Product discontinuation F150-VS-2D	Recommended replacement No recommended replacement
Vibration resistance (durability)	10 to 150 Hz; half-amplitude: 0.15 mm, 4 times for 8 minutes each in 3 directions	
Ambient temperature range	Operating: 0 to 50 °C Storage: -25 to 65 °C (with no condensation)	
Ambient humidity range	Operation and storage: 35 to 85% RH (with no condensation)	
Ambient atmosphere	No corrosive gases	
Material	Cable sheathing: Heat-resistant PVC Connector: PC (GF), PBT	
Minimum bending radius	75m	
Weight	3m : Approx. 170g	

Item	Product discontinuation F150-VM-2D	Recommended replacement No recommended replacement
Vibration resistance (durability)	10 to 150 Hz; half-amplitude: 0.15 mm, 4 times for 8 minutes each in 3 directions	
Ambient temperature range	Operating: 0 to 50 °C Storage: -25 to 65 °C (with no condensation)	
Ambient humidity range	Operation and storage: 35 to 85% RH (with no condensation)	
Ambient atmosphere	No corrosive gases	
Materials	Cable sheathing : Heat-resistant chlorinated vinyl Connector: PVC	
Minimum bending radius	50mm	
Weight	2m : Approx. 40g	
Accessories	BNC Jack Adapter	

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.