2-Dimensional Code Reader (Fixed Type) V530-R160E, EP

A Code Reader that Handles Pin-Stamped Markings!



Features

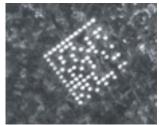
Dependably Read Pin-Stamped Markings

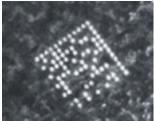
- Markings made by pin-stamping machines can be dependably read, providing the user with a wider range of selection of marking devices.
- Stable reading is possible even if the shape of cells changes because of aging in the marking device.
 - (Reference: Samples were made using a Vector Co. pin-stamping machine)



Dot Codes* Read at Any Angle: 360° Compatibility

- Codes can be read even with rough backgrounds on the casting surface or other locations.
- Dot codes* can be read at any angle through a 360° range.
 - * Dot codes are 2-dimensional codes in which dots form the cells.





Dependably Read Markings at an Angle

With dependable reading at an angle, installation is possible even on existing facilities with space limitations.



Easy Setup

Setup is easily achieved with a Memory Card (compact flash memory) slot on the V530-R160E and V530-R160EP. Just insert a card to easily copy settings or save images. There is no need to carry a personal computer and cables for process switch-overs.



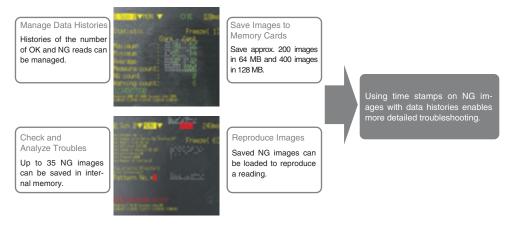
Easy Operation and Maintenance

Trends can be monitored to achieve the following:

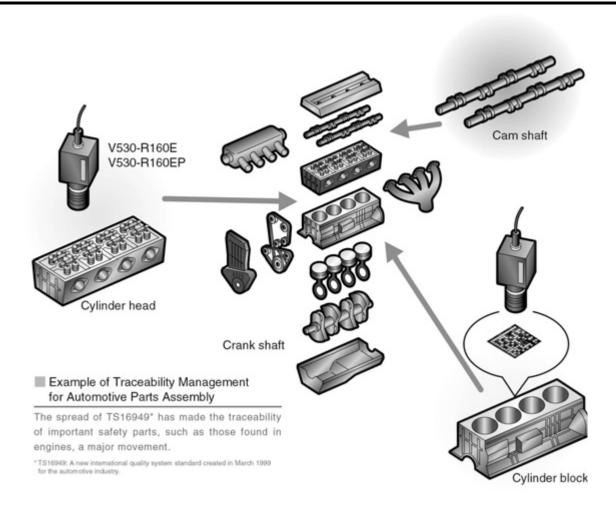
- Displaying changes in the status (correlation values) of codes or contrast changes on line graphs on a monitor.
- Setting alarm levels while monitoring graphs.
- Outputting external alarms if a value falls below the set value.



Easy Analysis



Applications



Ordering Information

■ List of Models

Item	Description	Model
Controller		V530-R160E, V530-R160EP
Console	2-m cable	F150-KP-2D 2M
Camera		F150-S1A-2D
Camera Cable	3-m cable	F150-VS-2D 3M
Monitor Cable	2-m cable	F150-VM-2D 2M
Liquid Crystal Monitor		F150-M05L-2D
Video Monitor		F150-M09-2D
Parallel Cable	Cable with loose wires for Parallel I/O Connector (2-m cable)	F160-VP
Memory Card	Card capacity: 64 MB	F160-N64S(S)
	Card capacity: 128 MB	QM300-N128S
RS-232C Cable	For IBM PC/AT or compatible computer (2-m cable)	XW2Z-200S-V
	For SYSMAC PLC (2-m cable)	XW2Z-200T

Specifications

V530-R160E, V530-R160EP Controller

Item	Specifications		
Model	V530-R160E	V530-R160EP	
Input/Output type	NPN	PNP	
Applicable codes	Data Matrix ECC200: 10 × 10 to 64 × 64, 8 × 18, 8 × 32, 12 × 26, 12 × 36, 16 × 36, 16 × 48 Data Matrix ECC000, ECC050, ECC080, ECC100, ECC140: 9 × 9 to 25 × 25		
	QR Code (Model 1, 2): 21 × 21 to 41 × 41 (Version 1 to 6)		
Readable direction	360°		
Number of pixels (resolution)	512 (H) × 484 (V)		
Number of connectable cameras	2 max.		
Image memory function	Maximum of 35 images stored (internal memory in Controller).		
Operation method	Selected from menu.		
Processing method	Gray		
Memory Card slot	1		
Monitor interface	1 channel (color/monochrome)		
Serial communications	RS-232C/422A, 1 channel		
Parallel I/O	5 inputs: TRIG-A, TRIG-B, TRIG-C, TRIG-D, and RESET		
	6 outputs: RUN, ERROR, OK/NG, BUSY, GATE, and ALARM		
Power supply voltage	20.4 to 26.4 VDC		
Current consumption	Approx. 1.6 A max.		
Ambient temperature	Operating: 0 to 50°C, storage: -25 to 65°C (with no icing or condensation)		
Ambient humidity	35% to 85% (with no condensation)		
Weight	Approx. 570 g		

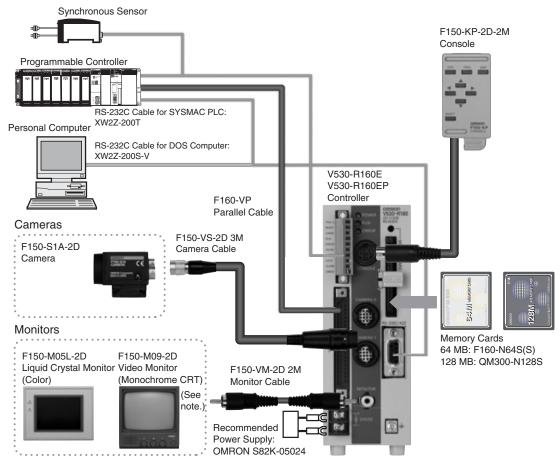
F150-S1A-2D Camera

Item	Specifications	
Picture element	1/3-inch CCD	
Effective pixels	659 (H) × 494 (V)	
Shutter function	Electronic frame shutter Shutter speed: 1/100, 1/500, 1/2000, or 1/10000 s (menu selectable)	
Ambient temperature	Operating: 0 to 50°C, storage: –25 to 60°C (with no icing or condensation)	
Ambient humidity	35% to 85% (with no condensation)	
Weight	Approx. 80 g	

Monitor

Item Model No.	Liquid Crystal Monitor F150-M05L-2D	Video Monitor F150-M09-2D	
Size	5.5 inches	9 inches	
Туре	Liquid crystal color TFT	Monochrome CRT	
Resolution	320 × 240 dots	800 TV lines min. (at center)	
Input signal	NTSC composite video (1.0 V/75 Ω)	NTSC composite video (1.0 V/75 Ω)	
Power supply voltage	20.4 to 26.4 VDC	85 to 264 VAC	
Current consumption	Approx. 700 mA	Approx. 200 mA	
Ambient temperature	Operating: 0 to 50°C, storage: –25 to 65°C (with no icing or condensation)	Operating: -10 to 50°C, storage: -20 to 65°C (with no icing or condensation)	
Ambient humidity	Operating/Storage: 35% to 85% (with no condensation)	Operating/Storage: 10% to 90% (with no condensation)	
Weight (Monitor only)	Approx. 1 kg	Approx. 4.5 kg	
Accessories	Operation manual, 4 mounting brackets	Operation manual	

System Configuration

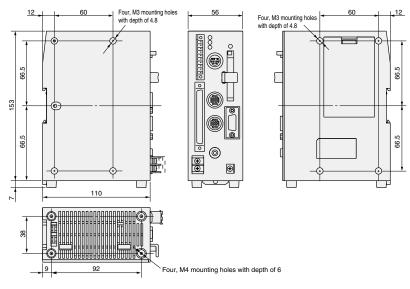


Note: F150-M09-2D does not conform to EC Directives.

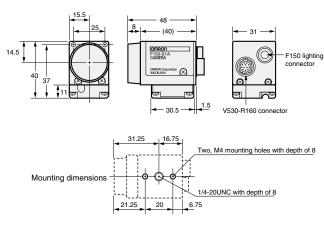
Dimensions

Note: All units are in millimeters unless otherwise indicated.

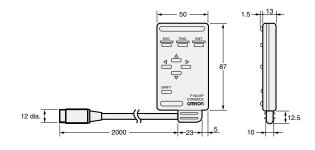
V530-R160E, V530-R160EP Controller



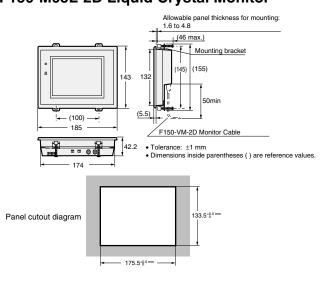
F150-S1A-2D Camera



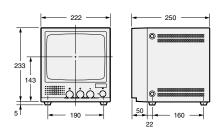
F150-KP-2D-2M Console



F150-M05L-2D Liquid Crystal Monitor



F150-M09-2D Video Monitor



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OMRON ELECTRONICS LLC

One Commerce Drive Schaumburg, IL 60173

847-843-7900

For US technical support or other inquiries:

800-556-6766

OMRON CANADA, INC. 885 Milner Avenue

Toronto, Ontario M1B 5V8

416-286-6465

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