ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Find the *OMRON F150-VS* at our website: ***Click HERE***

OMRON

Vision Sensor

F150-2

Omron Vision Sensor

- Pitch measurement tool to check for current number of pin.
- Edge measurement tool to measure distance between edges.
- Built-in camera, light source and lens to reduce installation time.
- Can store up to 23 inspected images for later analysis.
- DeviceNet interface for easy network connection.



Ordering Information

Product	Model
DeviceNet for communications	F150-C10E-2-DRT

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Specifications

■ Vision Mate Controller

Item			Specifications	
			Auto Menu	Expert Menu
Number of connectable cameras			1	
Number of pixels			512 (H) x 484 (V)	
Number of scenes			16	
Image memory function			Maximum of 23 images stored	
Processing method			Gray/Binary	
Filtering			Automatic or smoothing, edge enhancement, all edges, and background cut	Smoothing, edge enhancement, all edges, and background cut
Number of binary levels			Automatic	256 levels per region
Position displacement compensation			Automatic or ON/OFF	Compensating directions: X, Y, and □ directions Detection mode: Binary gravity/Axis angle, center, gradation search (1 model or 2 models), and edge position
Number of inspection regions			Automatic or 16 regions/scene	16 regions/scene
Measurement data			Automatic	Binary area, center of gravity, and axis angle Gradation correlation, gradation search position, degree of defect, edge position, and edge pitch
Operating function			---	Arithmetic operation, distance, angle, and maximum and minimum values
Criteria result output			General	Overall judgement Judgement of operation results per region Measurement and operation data
Monitor interface			1 channel (pin jack)	
RS-232C I/F			1 channel (D-sub, 9-pin, female)	
Parallel I/O			11 inputs and 21 outputs including control I/O points	1 input and 5 outputs including control I/O points
	Output type	NPN	F150-C10E-2	F150-C10E-2-DRT
		PNP	F150-C15E-2	---
Power supply voltage			24 VDC+10%/-15%	
Current consumption			Approx. 0.5 A	
Ambient temperature and humidity			Operating: 0°C to 50°C Operating: 35% to 85% (with no condensation)	
Weight			Approx. 390 g	

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

■ DeviceNet for Communications (F150-C10E-2-DRT)

Item		Specifications		
Communications protocol		DeviceNet		
Connection forms (see note 1)		Combination of multi-drop and T-branch connections (for trunk or drop lines)		
Baud rate		125 Kbps, 250 Kbps, or 500 Kbps (selectable using the DIP switch)		
Communications media		Special 5-wire cables (2 signal lines, 2 power lines, 1 shield line)		
Communications distances		**Network length**	**Drop line length**	**Total drop line length**
	500 Kbps	100 m max. (see note 2)	6 m max.	39 m max.
	250 Kbps	250 m max. (see note 2)	6 m max.	78 m max.
	125 Kbps	500 m max. (see note 2)	6 m max.	156 m max.
Communications power supply		11 VDC to 25 VDC		
Node number		0 to 63 (selectable using the DIP switch)		
Error control checks		CRC error check		

Note 1: Terminating resistors are required on both ends of a trunk line.

Note 2: Indicates the length when thick cables are used. Reduce the network length to 100 m max. when using thin cables.

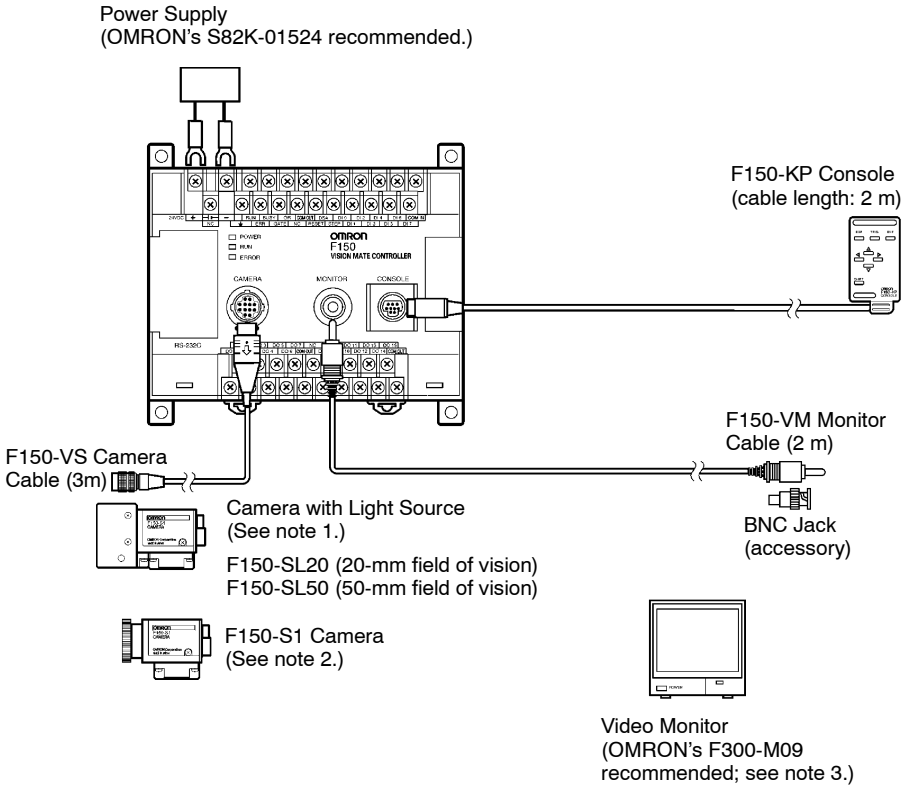
■ F150-SL20/SL50 Camera with Light Source F150-S1 Camera

Item		Specifications
Camera	**Picture element**	1/3” Interline CCD (reading all pixels)
	Effective pixels	659 x 494 (H x V)
	Shutter function	Electronic shutter: 1/100, 1/500, 1/2,000 or 1/10,000 (menu-selectable)
Lens	**Camera distance**	F150-SL20: 61 to 71 mm F150-SL50: 66 to 76 mm
	Field of vision	F150-SL20: 20 mm F150-SL50: 50 mm
Lighting	**Light source**	Red LED (20% deterioration after 1,500 hours in operation)
	Flash method	Pulse flash (sychronized with camera shutter)
Ambient temperature and humidity		Operating: 0°C to 50°C Operating: 35% to 85% (with no condensation)
Weight	**Camera with light source**	Approx. 135 g
	Camera	Approx. 70 g

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

■ System Configuration

Easy to connect and use



Note 1: F150-SL Cameras are the same as F150-S1 Cameras except that they have a lens and light attached.

Note 2: If the field of vision is too small, use the F150-S1 Camera with a normal CCTV lens and light.

Note 3: Use an NTSC monitor with an external video input terminal.

NOTE: DIMENSIONS SHOWN ARE IN MILLIMETERS. To convert millimeters to inches divide by 25.4.

OMRON®

OMRON ELECTRONICS, INC.
One East Commerce Drive
Schaumburg, IL 60173
1-800-55-OMRON

OMRON CANADA, INC.
885 Milner Avenue
Scarborough, Ontario M1B 5V8
416-286-6465

Cat. No. P10FAX1A 6/00 Specifications subject to change without notice. Printed in U.S.A.

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP