

VE Series



Smart Camera

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VE Series

Compact, Durable, Versatile

The VE Smart Camera is built to stand up to industrial environments and has many configuration options.

Durable Design



Robust, aluminum housing for harsh environments

C-mount lens for a variety of applications

Status and Troubleshooting



Bright status indicators to easily view camera status

Two-line, eight-character display and push buttons enable troubleshooting and camera status

- Perform product change or trigger
- Troubleshoot and clear error
- Change or view IP address, MAC address, or speed
- View firmware, focus number or status

Connections



Ethernet connector with GigE transfer capability

Six optically isolated I/O

Power Banner Vision lights directly from the camera



Compact size



Optional lens cover provides an IP67-rated solution

Intuitive Software

VE Vision Manager software: Easy configuration, powerful functions

Download now at www.bannerengineering.com

The screenshot shows the VE Vision Manager software interface. The main window displays a live image of a circular part with a yellow and green detection overlay. A specific defect is labeled 'Blemish01'. The interface includes a top menu bar with 'Sensor', 'Inspection Logs', 'Inspection Management', and 'System Settings'. On the right, there is an 'Inspection Summary' panel showing 'Passed 61', 'Failed 20', and 'Missed 16'. Below that is an 'I/O Summary' panel with status indicators for 'Ready', 'Fail', 'Pass', 'Product Change', and 'Remote Teach'. The 'Blemish01' panel shows 'Inputs' and 'Test' parameters. At the bottom, a 'Tools & Results' panel lists various tools like 'Camera01', 'Blob01', 'Edge01', 'Blemish01', 'Object01', and 'Measure01'. A zoom tool is visible at the bottom left of the image display.

Connect to camera, configure parameters, view inspection logs and access advanced menus

Live image display with runtime editing

Zoom tool assists with setup and focus

Add tools, view status, review inspection results

Determine historic pass or fail information quickly

Easily view sensor I/O status

Configure input and test parameters in minutes

Hide or resize windows to customize software view

Advanced Functions

- Emulator** Offline building and troubleshooting of applications
- Runtime Editing** Quickly make inspection changes on the fly to reduce costly downtime
- Factory Communications** Ethernet/IP, Modbus TCP, PROFINET and PCCC for seamless communication on the manufacturing floor

Vision Applications

- Inspect** Verify correct parts, labels, or components are present
- Count** Confirm the number of parts found
- Measure** Measure distances or angles to validate size or location of parts
- Detect** Find edges and determine part location
- Flaw Detection** Inspect for flaws, such as scratches, on a part
- Uniformity** Check for consistent application of sealant or adhesives



VE Series



Family

VE

Resolution

202

202 = 2MP, 1600 x 1200

Lower and higher resolution models coming soon

Imager

G

G = Grayscale

Ethernet Connection

1A

1A = M12, 8-pin Euro-style female

Power	12 to 30 V dc
Discrete I/O	1 Trigger IN 5 programmable I/O
Output Configuration	Optically isolated
Lens	C-mount
Communication	10/100/1000 Mbps Ethernet
Acquisition	256 grayscale levels Frames per Second: 50 fps, max. depending on inspection settings Image Size: 1600 x 1200 pixels

Construction	Housing: Aluminum Display Label: Polyester
Connections	Communications: M12, 8-pin Euro-style male Light Connector: M8, 3-pin Pico-style female Power, Discrete I/O: M12, 12-pin Euro-style female
Environmental Rating	IEC IP67 with optional lens cover
Certifications	

Order Now

Accessories

Lens



Focal Length	Model
5 mm	LCF05LCMP
8 mm	LCF08LMP
12 mm	LCF12LMP
16 mm	LCF16LCMP
25 mm	LCF25LCMP
35 mm	LCF35LCMP
50 mm	LCF50LCMP
75 mm	LCF75LCMP

Contact factory for additional options.

Bandpass Filters



Type	Model	Diameter
Blue	FLTB470-	25.5 (25.5 mm) or 27 (27 mm)
Green	FLTG525-	
Infrared	FLTI850-	30.5 (30.5 mm)
Red	FLTR635-	
Dark Red	FLTR660-	
Linear Polarizer	FLTPR032-	

Example: FLTB470-25.5

Sealed Lens Covers (painted aluminum)



Type	Model
60 mm cover with polycarbonate window	VELC60-PC
60 mm cover with borosilicate glass window	VELC60-BG
85 mm cover with polycarbonate window	VELC85-PC
85 mm cover with borosilicate glass window	VELC85-BG

Communication Cordsets



Type	Length	Model
RJ45 Ethernet to 8-Pin Threaded M12/Euro-Style (Cat5e Shielded)	1.83 m (6 ft)	STP-M12-806
	4.57 m (15 ft)	STP-M12-815
	9.14 m (30 ft)	STP-M12-830

Power Cordsets



Type	Length	Model
12-Pin M12/Euro-Style with Open Shield	1.83 m (6 ft)	MQDC2S-1206
	4.57 m (15 ft)	MQDC2S-1215
	9.14 m (30 ft)	MQDC2S-1230
	15.2 m (50 ft)	MQDC2S-1250
	22.9 m (75 ft)	MQDC2S-1275

For right-angle models add RA to the model number.
Example: MQDC2S-1275RA

Brackets



SMBVERA
Right-angle bracket



SMBVEMP
Mounting plate



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