

PresencePLUS®

NEW!

OCR/OCV Our vision sensors can read.



Look who's reading now.

PresencePLUS® vision sensors are now available with three new powerful tools for reading, verifying and inspecting text. Add the Optical Character Reading and Verification (OCR/OCV) and text string tool set to any Banner general-purpose PresencePLUS P4 OMNI and PROII or dedicated-function P4 Bar Code Reader (BCR) sensor. As part of a growing family of Banner premium tools, these new tools read and verify alphanumeric text, allowing PresencePLUS sensors to tackle challenging applications.

Robust tools deliver reliable character recognition and verification.

- Includes OCR, OCV and text string matching capabilities in one premium vision tool package
- Delivers easy training process for building character library
- Finds character pattern matches from library of taught characters
- Confirms presence of desired character in a specific location
- Verifies text strings uploaded from Industrial Ethernet protocol sources

- Provides string tool for comparing decoded character strings from multiple OCR and BCR tools
- Transmits decoded ASCII text strings using RS-232, EtherNet/IP or Modbus TCP/IP industrial protocols
- Offers a field upgrade for existing users (model PPUOCR)

Enhanced capabilities to meet your plant's requirements.

PresencePLUS vision sensors with OCR/OCV tools solve thousands of applications:

- Human-readable text to bar code data matching
- Date-lot code verification
- Sequential serial code verification

Simple user interface.

- ▶ Proven user interface common to all Banner PresencePLUS sensors
- ▶ Intuitive, three-step, point-and-click operation
- ▶ Built-in Inspection Wizard
- ▶ Quick TEACH using a single image for reference
- ▶ Multiple stored inspections



Easiest sensor to set up and operate.

- ▶ Compact two-piece or economical one-piece design
- ▶ 10/100 Ethernet and serial communications
- ▶ Direct connectivity to EtherNet/IP and Modbus TCP industrial networks
- ▶ ActiveX utilities for exporting inspections, images and results
- ▶ Discrete I/O configurable as NPN or PNP, and for timing and function
- ▶ 10 to 30V dc operation

Wide selection of lighting.

- ▶ Provides maintenance-free, rugged LED lighting in a choice of infrared or visible red, green, blue or white
- ▶ Delivers high-intensity lighting with built-in universal strobe control and power regulation; no external controller or power supply required
- ▶ Offers selection of ring lights, area lights, backlights, linear array lights, on-axis lights, low-angle indirect ring lights and specialty lights



Local applications support—worldwide.

- ▶ More than 3,000 local specialists plus factory applications engineers help you solve your applications quickly and effectively.
- ▶ iKnow® Vision interactive online training is always available.



www.bannerengineering.com/ocrov

1.888.373.6767

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BANNER®

more sensors, more solutions

PresencePLUS® OCR/OCV Vision Sensors

P4 Sensors with OMNI Tool Set

Models	Vision Tools	Housing	Resolution	Add premium tools to model (example, P4OR-BCOC)
P4OR	OMNI Gray Scale	Right-Angle	640 x 480	BC = Bar Code Reader OC = OCR/OCV BCOC = Bar Code Reader & OCR/OCV
P4OI		In-Line		
P4O1.3R		Right-Angle	1280 x 1024	
P4O1.3I		In-Line		
P4COR	COLOR OMNI	Right-Angle	752 x 480	
P4COI		In-Line		

P4 Sensors with Simplified Tool Set

Models*	Vision Tools	Housing	Resolution	Field Upgradable Order model number PPUOCR to add OCR/OCV capability to any base model P4 sensor or PROII controller featured in this piece.
P4BCR	BCR Bar Code Reader	Right-Angle	640 x 480	
P4BCI		In-Line		
P4BC1.3R		Right-Angle	1280 x 1024	
P4BC1.3I		In-Line		

* To add the OCR/OCV premium tool to any P4 BCR model, add suffix **-OC** to the model number (example, **P4BCR-OC**).

PROII Controllers

Model	PPROCTL	PPROCTL1.3	PPROCTLC	Add premium tools to model (example, PPROCTL-BCOC)
Resolution	640 x 480 Gray Scale	1280 x 1024 Gray Scale	752 x 480 Color & Gray Scale	BC = Bar Code Reader OC = OCR/OCV BCOC = Bar Code Reader & OCR/OCV

Vision Tools

P4 OMNI	PROII		
•	•		OCR/OCV: Reads and verifies optical characters
•	•		Bar Code: Finds, decodes and grades 2D and 1D linear bar codes
•	•		Color Match: Inspects for matching hue and intensity
•	•		Average Color: Tests or communicates color content values sensed in a selected area
•	•		Color Blob: Determines the presence, connectivity, size and location of selected features with one or more colors
•	•		Average Gray Scale: Determines the gray scale intensity value of an area
•	•		Blob: Determines the presence, connectivity, size, shape and location of selected features
•	•		Edge: Determines the presence, number, classification and location of edges
•	•		Object: Determines the presence, number, classification, size and location of objects
•	•		Pattern Count: Determines the presence, number and location of pattern(s)
•	•		GEO Count: Detects the presence and location of a target pattern in any orientation



Pro Camera Model Numbers			Ring Light	Housing
PPROCAM	PPROCAM1.3	PPROCAMC	—	Black Anodized Aluminum
IP68 Pro Camera Model Numbers*			Ring Light	Housing
PPROCAMSC-G	PPROCAM1.3SC-G	PPROCAMCSC-G	Lens Cover (No Light)	Nickel-plated Aluminum
PPROCAMSSC-G	PPROCAM1.3SSC-G	PPROCAMCSSC-G		Stainless Steel
PPROCAMSR-G	PPROCAM1.3SR-G	—	Red	Nickel-plated Aluminum
PPROCAMSSR-G	PPROCAM1.3SSR-G	—		Stainless Steel
PPROCAMSI-G	PPROCAM1.3SI-G	—	Infrared	Nickel-plated Aluminum
PPROCAMSSI-G	PPROCAM1.3SSI-G	—		Stainless Steel
PPROCAMSB-G	PPROCAM1.3SB-G	—	Blue	Nickel-plated Aluminum
PPROCAMSSB-G	PPROCAM1.3SSB-G	—		Stainless Steel
PPROCAMSG-G	PPROCAM1.3SG-G	—	Green	Nickel-plated Aluminum
PPROCAMSSG-G	PPROCAM1.3SSG-G	—		Stainless Steel
PPROCAMSW-G	PPROCAM1.3SW-G	PPROCAMCSW-G	White	Nickel-plated Aluminum
PPROCAMSSW-G	PPROCAM1.3SSW-G	PPROCAMCSSW-G		Stainless Steel

* Models with a glass window are listed. For models with a plastic window, replace **G** with **P** in model number (example, **PPROCAMSC-P**). Windows are factory replaceable, contact factory at 1-888-373-6767.



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