



PresencePLUS®

- **Simple user interface**
 - Point and Click GUI
 - Common to all PresencePLUS sensors
- **Easy 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
 - Configurable discrete I/O
- **Wide selection of lighting**
 - Maintenance free, long life, multiple configurations
 - IP68 versions, Nickel plated or Stainless steel
 - High density LED lighting with a choice of colours

Barcode Reading for Traceability

- Successful Barcode reading even in the most challenging operating environments
- BCR-tool decodes and grades datamatrix and most common barcodes
- Text comparison with uploaded strings from Industrial Ethernet protocol sources
- Transmission of decoded ASCII text strings using RS-232, Ethernet/IP or Modbus TCP/IP industrial protocols
- 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
- OCR/OCV capabilities with easy training function for building individual libraries



BANNER®

more sensors, more solutions

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Optical Identification on photovoltaic panels

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Models

PresencePLUS® OCR/OCV Vision Sensors

P4 Sensors with OMNI Tool Set



Models	Vision Tools	Housing	Resolution
P4OR	OMNI Gray Scale	Right-Angle	640 x 480
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
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
Resolution	640 x 480 Gray Scale	1280 x 1024 Gray Scale	752 x 480 Color & Gray Scale

Add premium tools to model
(example, **P4OR-BCOC**)

BC = Bar Code Reader
OC = OCR/OCV
BCOC = Bar Code Reader & OCR/OCV

OC = OCR/OCV

Add premium tools to model
(example, **PPROCTL-BCOC**)

BC = Bar Code Reader
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BCOC = Bar Code Reader & OCR/OCV

Pro Camera Model Numbers



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

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



SENSORS



VISION



WIRELESS I/O



INDICATORS



SAFETY



Banner offers a full range of sensing solutions

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