NEW!

AREA Vision Sensor
A Powerful Solution for Inspecting Defined Areas.

Complete Case Inspection. Verify all bottles or cans are present in a packaging application.

Feature Identification & Counting. Ensure the correct number of holes are punched in a metal stamping application.

Quality Control Sorting. Identify chipped glass bottles in a filling application.

Orientation Confirmation. Establish that products are correctly oriented for handling by robots in an automatic feed work cell.

Assembly Error Proofing. Verify the presence and placement of all clips, bolts and nuts in an automotive trim panel assembly application.

Process Control. Monitor baked goods for uneven browning.

Flaw Detection. Look for cracking in sheets of metal as they are unrolled.

► Combines BLOB (Binary Large Object) and Gray Scale tools to capture and analyze images and render pass-fail judgements.

► Available in two models:
  – The PresencePLUS P4 AREA performs high-speed inspections—up to 10,000 parts per minute—for only $995.
  – The PresencePLUS P4 AREA 1.3 features 1.3 megapixel (1280 x 1024) resolution, for $1995.

► Live inspection images without a PC.

► Uses remote TEACH to allow simple push-button inspection changeovers on the line without a PC.

► Features Dynamic Thresholding to self-adjust the sensor to compensate for degradation in light sources.

► Direct connectivity for all I/O to Ethernet IP and Modbus TCP.

Simple user interface.
► Proven user interface common to Banner PresencePlus sensors.
► Intuitive, three-step, point-and-click operation.
► Built-in Inspection Wizard.
► Quick TEACH using a single image for reference.
► Multiple stored inspection programs.

Easiest sensor to set up and operate.
► Right-angle or in-line optics.
► Communications via Ethernet or Serial.
► Four discrete I/O configurable as NPN or PNP, and for timing and function.
► All connections via plug-in connectors.
► 10 to 30V dc operation.

Wide choice of lighting.
► Sensor mounted ring lights.
► Area lights for longer distances.
► Specialty lights for tough to light objects.
► Red, white, blue, green, infrared and fluorescent lighting options.

Standard C-mount lenses.
► With or without focus locking.
► High performance and megapixel 2/3” format models for higher resolution.

www.bannerengineering.com/area
1.866.816.5175
PresencePLUS® P4 AREA Solution Kits

Solution Kits include sensor, bracket, cordset, lens, light, PC interface cable, CD-ROM and Quickstart Guide. Partial listing of kits below; see Model Key to order other kits.

### Model Key to P4 AREA Solution Kit Model Number

<table>
<thead>
<tr>
<th>Sensor</th>
<th>Area Sensor</th>
<th>Lens††</th>
<th>Light</th>
<th>Controller to PC Interface††</th>
</tr>
</thead>
<tbody>
<tr>
<td>P4ARK</td>
<td>AREA Right-Angle Kit</td>
<td>06 = 2 meters</td>
<td>12 = LCF12 (Lens 12 mm)</td>
<td>2 = Ethernet STPX07 Cordset, Cat5e Crossover Shielded RJ45 2.1 m to PC Ethernet Port</td>
</tr>
<tr>
<td>P4AIK</td>
<td>AREA In-Line Kit</td>
<td>23 = 7 meters</td>
<td>16 = LCF16 (Lens 16 mm)</td>
<td>2 = Ethernet STPX07 Cordset, Cat5e Crossover Shielded RJ45 2.1 m to PC Ethernet Port</td>
</tr>
<tr>
<td>P4A1.3RK</td>
<td>AREA 1.3 Right-Angle Kit</td>
<td>32 = 10 meters</td>
<td>16 = LCF16 (Lens 16 mm)</td>
<td>2 = Ethernet STPX07 Cordset, Cat5e Crossover Shielded RJ45 2.1 m to PC Ethernet Port</td>
</tr>
<tr>
<td>P4A1.3IK</td>
<td>AREA 1.3 In-Line Kit</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Basic P4 AREA Sensor Kits and Sensors

<table>
<thead>
<tr>
<th>AREA Model Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>P4ARK06</td>
<td>Kit: Right-Angle Sensor, Bracket, 2 m Cordset, CD-ROM and Quickstart Guide</td>
</tr>
<tr>
<td>P4ARK23</td>
<td>Kit: Right-Angle Sensor, Bracket, 7 m Cordset, CD-ROM and Quickstart Guide</td>
</tr>
<tr>
<td>P4ARK32</td>
<td>Kit: Right-Angle Sensor, Bracket, 10 m Cordset, CD-ROM and Quickstart Guide</td>
</tr>
<tr>
<td>P4AIK06</td>
<td>Kit: In-Line Sensor, Bracket, 2 m Cordset, CD-ROM and Quickstart Guide</td>
</tr>
<tr>
<td>P4AIK23</td>
<td>Kit: In-Line Sensor, Bracket, 7 m Cordset, CD-ROM and Quickstart Guide</td>
</tr>
<tr>
<td>P4AIK32</td>
<td>Kit: In-Line Sensor, Bracket, 10 m Cordset, CD-ROM and Quickstart Guide</td>
</tr>
<tr>
<td>P4AR</td>
<td>Right-Angle Sensor—Includes Bracket and CD-ROM</td>
</tr>
<tr>
<td>P4AI</td>
<td>In-Line Sensor—Includes Bracket and CD-ROM</td>
</tr>
</tbody>
</table>

### PresencePLUS®: A complete offering of vision sensing products

- **Pro** Ten full-function vision tools.
- **P4 GEO & GEO 1.3** 360° fixture-free inspection.
- **P4 EDGE & EDGE 1.3** High-speed edge sensing and measurement.
- **P4 BCR** Fully integrated 2D and 1D bar code reader.
- **P4 AREA & AREA 1.3** Object and gray-scale sensing of selected areas.
- **Lighting & Lenses** Full selection of basic and specialty lights, and lenses.
- **Accessories** Monitors, brackets, cables, enclosures and more.

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