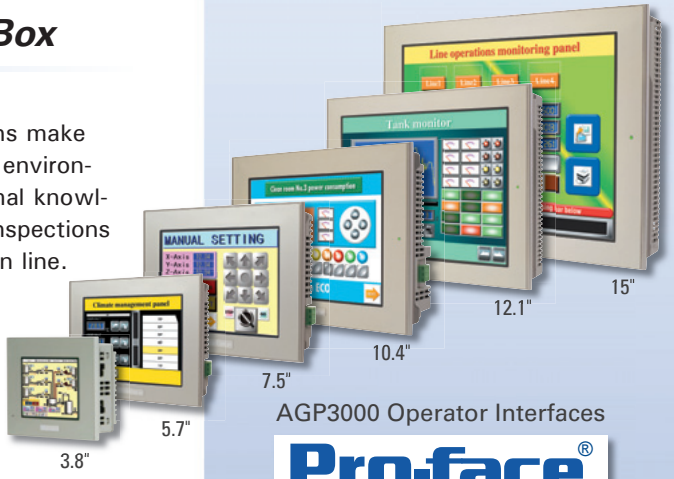
Pro-face

Pro-face & Banner Engineering

Tested, Trusted, Out-of-the-Box

HMI Vision Solutions

Pro-face and Banner Engineering advanced HMI vision inspection solutions make it easy to integrate vision sensing in multiple part flexible manufacturing environments directly to your operator interface and control system. With minimal knowledge, a user can quickly set up an advanced HMI vision system to run inspections testing all products and accurately rejecting bad products on a production line.



AGP3000 Operator Interfaces

Pro-face®

Differentiating Value:

- Non-windows-based, eliminates need for expensive plant floor industrial PC
- Powerful feedback and operator controls for camera-based sensing solutions
- Quick and easy change-over to different inspections (recipes)
- Bar code and text decoded (read), dimensions measured

Applications:

- Error proofing and traceability
- Plastic injection machines
- Metal stamping machines
- Discrete manufacturing

Markets:

- Automotive manufacturing
- Tire and rubber manufacturing
- Food and beverage packaging
- Pharmaceutical packaging

BANNER®

PresencePLUS®

Operation:

The AGP3000 operator interface gathers image and data information from *Presense*PLUS® Sensors via Ethernet. Image and part data is displayed on screen which also can be communicated to other factory devices such as PLCs, drives, printers or a SCADA system.

Easy Integration Tools

Pro-face provides tools to make it easy to display images from the Banner Vision sensor. In addition to the intuitive HMI development software GP-Pro EX, Pro-face makes available:

- A "How To" setup guide
- "Getting Started" example project
- Sample symbol list to easily assign names to vision sensor registers

Functionality Capabilities

Image Functionality Includes:

- Display (show) image:
  - o Full image or partial image
  - o Simultaneous with sensor data (pass/fail, measurement, etc.)
- Zoom (100% to 3200%) / Pause
- Image Quality Status
- Window size, position and offset
- Save snapshot to CompactFlash® or USB memory

Capabilities include:

- Communicate with up to 16 *Presence*PLUS® Vision Sensors
- Simultaneous communication with up to 3 additional protocols (PLC, drives, etc)
- Data logging function easily saves camera data to CompactFlash® or USB memory
- Quickly load camera presets or commands using recipe function

Represented by:

Pro-face

Right Size, Right Technology Solutions

Pro-face AGP3000 & Banner *Presence*PLUS®

Easy Configuration

STEP 1 - Banner Engineering Vision Sensor (camera) configuration

1) Configure settings and measurements
2) Configure communications tool
   a. Map to addresses

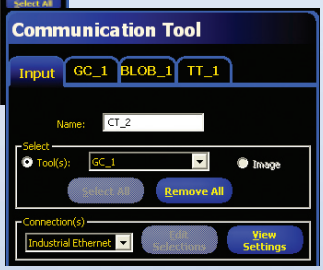
STEP 2 – Pro-face HMI configuration

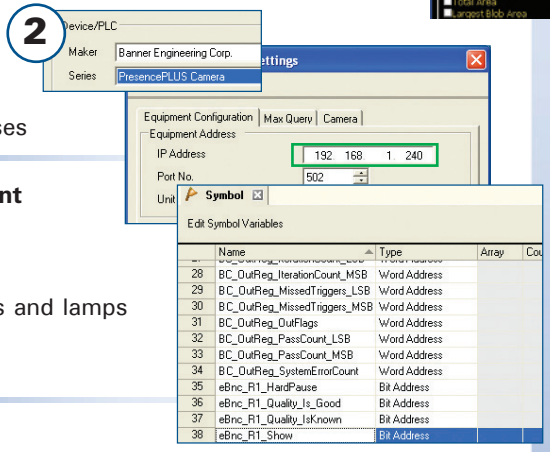
1) Select driver
2) Configure camera IP address
3) Give names (symbols) to camera addresses

STEP 3 – Pro-face HMI screen development

1) Create a screen
2) Enable camera image
3) Add data displays, switches, data entries and lamps
4) Download to AGP3000

STEP 1 – Configure Settings & Measurements



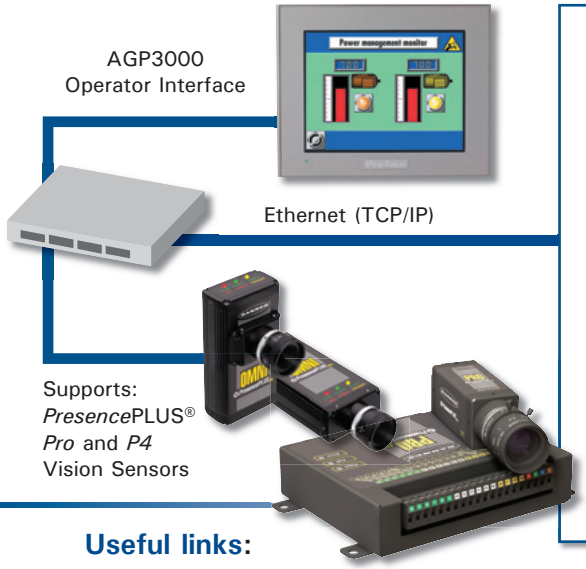


STEP 2 – Pro-face Configuration

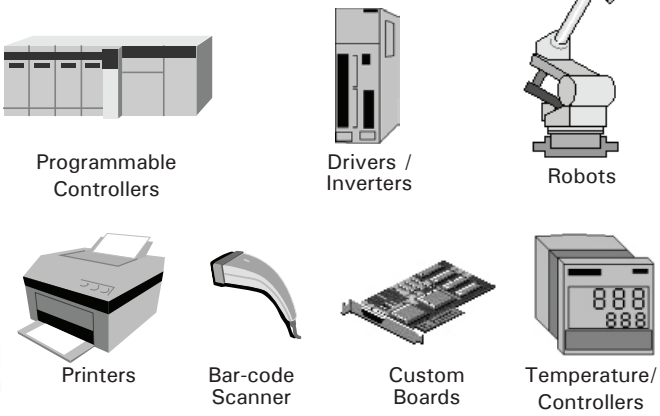
STEP 3 – Pro-face Screen Development

Supported Units

Panel Size	Model	Display	Resolution	AGP3000 Class/Type		
				Standard	Control	Multi-media
3.8"	AGP3200	TFT / Mono (Amber)	320X240 (QVGA)	✓	✗	✗
5.7"	AGP3300	TFT / STN / MONO (B/W)	320X240 (QVGA)	✓	✓	✗
7.5"	AGP34x0	TFT / STN	640X480 (VGA)	✓	✓	✓
10.4"	AGP35x0	TFT / STN / MONO (B/W)	640X480 (VGA) or 800x600 (SVGA)	✓	✓	✓
12.1"	AGP36x0	TFT	800X600 (SVGA)	✓	✓	✓
15"	AGP3750	TFT	1024X768 (XGA)	✗	✗	✓



Enterprise-wide connectivity: The Pro-face AGP3000 extensive driver support interfaces directly to wide variety of factory floor hardware.



Useful links:

- http://www.profaceamerica.com
- http://www.bannerengineering.com

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