PPM8 Flat-Panel 8-inch LCD Monitor



Datasheet

Used with PresencePLUS ProII Controllers or PresencePLUS P4

.



- LCD flat-panel color monitor
- Small and lightweight
- Wide viewing angle
- Low power consumption
- Video cable from PresencePLUS ProII Controllers or PresencePLUS P4 sensor connects directly to the PPM8
- · Mounting bracket pivots up and down and rotates for versatile mounting to either horizontal or vertical surface
- 1/4-20 threaded mounting hole on the bottom for column mounting brackets
- Monitor displays only monochrome when used with any Banner PresencePLUS vision sensor

Specifications

Screen Size 8-inch diagonal LCD Aspect Ratio 4:3 LCD Panel Type **TFT Active Matrix Display Resolution** 800 × 600 Brightness (Central) 250 cm/m² Viewing Angle Horizontal 70° Vertical 70° Supply Voltage 24 V dc (12 V to 24 V dc, ± 10%) Red Wire: +V Black Wire: -V

Cordset Length 0.4 m (15 inches) Video 2 m (78 inches) Power **Current Draw** 0.5 A @ 24 V dc typical Connections (2) BNC Cables for Video In (VIDEO 1 IN, VIDEO 2 IN) **Operating Temperature** -20 °C to +70 °C (-4 °F to +158 °F) Storage Temperature -30 °C to +80 °C (-34 °F to +176 °F) Video System NTCS/PAL Auto Switching Control Selectable on monitor Net Weight 650 g (1.4 lb)

Dimensions



Cable Connections

Power

The display cable has dc power leads, Red (+) and Black (-). The monitor operates on a 12 V to 24 V dc (\pm 10%) power source.



Important: It is critical that the polarity is correct when connecting the power leads. Red is Positive (+) and Black is Negative (-).



Video

The monitor can receive a Composite (NTSC) signal directly from a camera. It has two video cables that accept standard BNC Coax cables between one or two vision sensors and the monitor.



NOTE: If only one sensor is used, connect to the VIDEO 1 IN cable.

Power Up

After connecting power and a vision sensor to the monitor, press the Power $oldsymbol{\Psi}$ button to power up the monitor.



NOTE: The vision sensor should be powered on before the monitor is powered up. The monitor will automatically power down if no video signal is received from the sensor within 15 seconds.

Power Down

Press the Power button to power down the monitor.

Settings

To change monitor settings, press the Menu 🔽 button on the display to bring up the settings menu. The displayed text in red is

the selected setting. Press the Menu button to cycle through the available settings. Use the Up \triangle and Down \checkmark arrow buttons to adjust the selected setting. See the table below for the display settings that can be changed.

Setting	Description
BRIGHT	Brightness changes the black level of the image. This should be the first parameter set for the image; set so the black levels show the definition of the dark areas without being washed out.
CONTRAST	Contrast changes the white levels of the image. After setting the Brightness, set the white level so the image is vibrant without oversaturating.
COLOR	Set to the desired richness of color. Not applicable when used with PresencePLUS.
TINT	Set to show realistic image color. Not applicable when used with PresencePLUS.
INPUT SOURCE	Select between AV1 or AV2 input source. Select AV1 when the video source uses the VIDEO 1 IN cable. Select AV2 when the video source uses the VIDEO 2 IN cable. If only one camera is to be connected to the monitor it should be connected to the VIDEO 1 IN cable.
ROTATION LR	Inverts the displayed image horizontally
ROTATION UD	Inverts the displayed image vertically
VOLUME	Not used
RESET	Returns the display to factory settings. Press Up or Down arrow button to reset.

Troubleshooting

I mage Quality

- Image is washed out: Reduce the brightness by activating the Settings, then adjusting the BRIGHT setting until the black areas of the image show the desired amount of definition.
- Image is too dark: Increase the brightness by activating the Settings then adjusting the BRIGHT setting until the black
 areas show the desired amount of definition. If still too dark, adjust the CONTRAST to the desired white area definition.

No Image on Display

- 1. Check that the sensor is powered on and is connected to the VIDEO 1 IN cable. Power up the monitor.
- 2. Confirm the correct voltage is present (24 V \pm 10%) by measuring the source voltage.

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