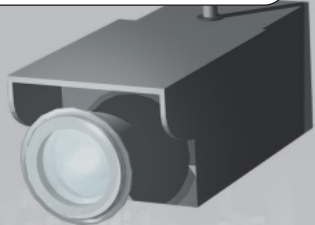


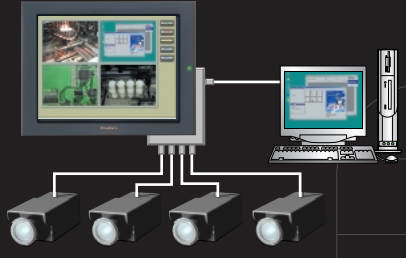
First in the Industry

Video-mix Unit for GP2000 Series



Four-Window Display

Up to 4 image windows can be shown simultaneously. Source input can be from max. of 4 video cameras and 1 PC. This frees up the space you previously needed for a separate camera and PC monitor thus saving both space and costs.



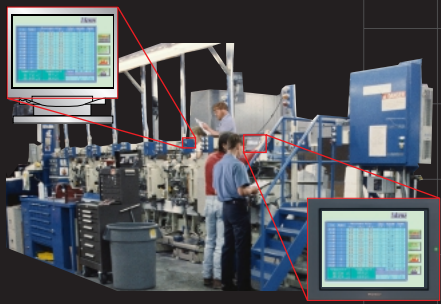
Displays Multiple Video Images or PC Screen Simultaneously on a GP Unit. Live Data Visualization on the Production Floors.

PAL / NTSC
Video System Compatible

RGB In/Out

First in the Industry

You can display both VGA (640 x 480) and SVGA (800 x 600) PC images on the GP unit. This lets you monitor production control screens from PCs on the production line or SCADA or other instrumentation screen data on the GP unit. And, since the same GP screen can also be output to a CRT, you can check the GP screen from remote locations, like from behind other equipment that blocks the view of the GP screen.



Selectable Screen Size

Images from a video camera can be displayed in full, 1/4, or 1/16 size.

Transparent Display

First in the Industry

You can select from two transparent display patterns.

- **Transparent display with designated colors**
Lets you superimpose GP screen designated colors (up to three can be selected) over a video image.
- **Transparent display with non-designated colors**
Lets you superimpose one color other than the GP screen designated colors over a video image.

Image Capture in JPEG Format

You can capture video images and save them onto CF cards in JPEG format. For example, saving a screen image when there's a problem can help facilitate troubleshooting. You can also save an entire GP screen with video images on a CF card, then open the images on a PC or display it again on the GP unit.

Important: When saving a PAL input screen, only "Normal" size or full-screen capture is available.



Video-mix Unit for GP2000 Series
GP2000-VM41

This function requires GP-PRO/PB III for Windows V5.05 or greater.

Displays images from external video cameras or PC on a single unit. Also, outputs GP screens to an external monitor.

First in the Industry



ISO 9001
JQA-1367



GP2000 SERIES

Video Display

Item	Model	GP2000-VM41		
Colors		32,768 / 64 levels of monochrome		
Signal System ^{*1}		NTSC ^{*2}	PAL	
Horizontal Synchronous Frequency		15.734kHz	15.625kHz	
Vertical Synchronous Frequency		59.9Hz	50Hz	
Maximum Display Size	GP-2500T	Compatible mode	320 x 240 dots (Normal) 640 x 480 dots (Zoom)	320 x 240 dots (Normal) 640 x 480 dots (Zoom) ^{*3}
		Expansion mode	640 x 480 dots (1/1) 320 x 240 dots (1/4) 160 x 120 dots (1/16)	640 x 480 dots (1/1) ^{*3} 384 x 288 dots (1/4) 192 x 144 dots (1/16)
	GP-2600T	Compatible mode	320 x 240 dots (Normal) 640 x 480 dots (Zoom)	384 x 288 dots (Normal) 768 x 576 dots (Zoom)
		Expansion mode	640 x 480 dots (1/1) 320 x 240 dots (1/4) 160 x 120 dots (1/16)	768 x 576 dots (1/1) 384 x 288 dots (1/4) 192 x 144 dots (1/16)
	No. of Input Channels		4	
	No. of Video Screens		Max.4 (Expansion mode)	
Brightness Control		16 levels of adjustment available for each channel		
Contrast Control		16 levels of adjustment available for each channel		
Color Control		16 levels of adjustment available for each channel		
Special Functions		Still (Still-frame video image), Transparent color setting, Zoom		

*1 A different signal system cannot be selected for each channel.

*2 NTSC 4.43 system is not supported.

*3 Part of the image is not displayed.

External Interface

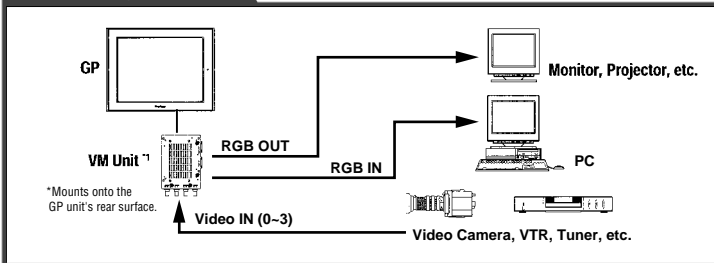
Item	Model	GP2000-VM41
Video Input		Input specifications: NTSC / PAL system No. of interfaces: 4 Connector: 75 Ω BNC (Receptacle)
RGB Input		Input specifications: VGA / SVGA No. of interfaces: 1 Connector: D-sub15 pin (Female)
RGB Output		Output specifications: 640 x 480 dots (GP-2500) 800 x 600 dots (GP-2600) No. of interfaces: 1 Connector: D-sub15 pin (Female)

Structural Specifications

Item	Model	GP2000-VM41
Certification		EN55011 class A, EN61000-6-2, UL1604, UL508
External Dimensions		W110mm [4.33in] x H146mm [5.75in] x D27mm [1.06in] ^{*4}
Weight		Approx. 560g [1.2lb] (VM unit only)
Cooling Method		Natural air circulation
Supported GP Model		GP-2500T, GP-2600T

*4 Excluding protrusions.

System Design



VGA / SVGA Display

RGB Input

Item	Model	GP2000-VM41		
Colors		32,768		
Input Signal System		Analog RGB		
Horizontal Synchronous Frequency	VGA	31.4kHz to 43.3kHz		
		SVGA	35.1kHz to 46.9kHz	
Vertical Synchronous Frequency	VGA	59.0Hz to 85.1Hz		
		SVGA	56.0Hz to 75.0Hz	
Display Size	GP-2500T	Compatible mode	640 x 480 dots	640 x 480 dots ^{*5}
		Expansion mode	640 x 480 dots (1/1) 320 x 240 dots (1/4) 160 x 120 dots (1/16)	640 x 480 dots (1/1) ^{*6} 400 x 300 dots (1/4) 200 x 150 dots (1/16)
	GP-2600T	Compatible mode	800 x 600 dots ^{*7}	
		Expansion mode	640 x 480 dots (1/1) 320 x 240 dots (1/4) 160 x 120 dots (1/16)	800 x 600 dots (1/1) 400 x 300 dots (1/4) 200 x 150 dots (1/16)
	Position Adjustment		Horizontal: -128 to 128 dots Vertical: -16 to 16 dots	
	Clock Adjustment		-128 to 128	
Phase Adjustment		64 levels		
Color Adjustment		4 levels of adjustment and 256 levels of fine adjustment available for red, green and blue		

*5 SVGA input images are reduced from 800 x 600 dots to 640 x 480 dots and displayed.

*6 Part of the image is not displayed.

*7 VGA input images are expanded from 640 x 480 dots to 800 x 600 dots and displayed.

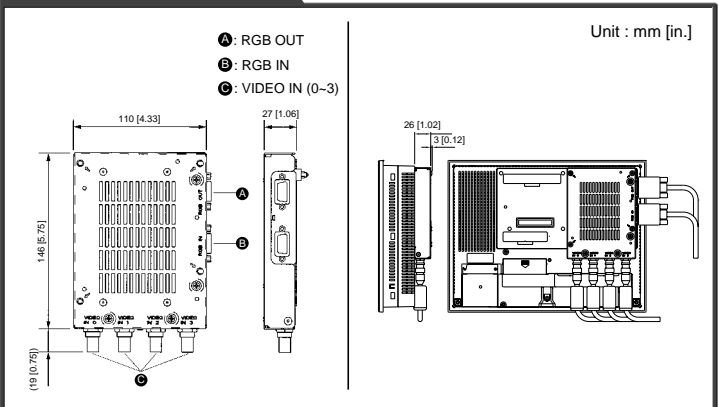
RGB Output

Item	Model	GP2000-VM41
Output Signal system		Analog RGB
Horizontal Synchronization Frequency	GP-2500:	30.20kHz
	GP-2600:	35.75kHz
Vertical Synchronization Frequency	GP-2500:	58.19Hz
	GP-2600:	56.93Hz
Output Size		GP-2500: 640 x 480 dots GP-2600: 800 x 600 dots

Accessories

RGB Cable	FP-CV00 (2.5m) FP-CV01 (5m)
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Dimensions and Functions



This function requires GP-PRO/PB III for Windows V5.05 or greater.

Caution: Before operating any of these products, please be sure to read all related manuals thoroughly.

- For printing purposes, the colors in this catalog may differ from those of the actual unit.
- Actual user screens may differ from the screens shown here.
- LCD screens may exhibit minute grid-points (light and dark) on the display panel surface. Also, "Contouring" - where some parts of the screen are brighter than others, producing a wavelike pattern - may occasionally occur. Both are normal for an LCD display and are not defects.
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Advertencia de la Proposición 65 de California—Plomo y compuestos de plomo

Avertissement concernant la Proposition 65 de Californie—Plomb et composés de plomb

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