VP300 and VP400 Operation Manual

Video Pointer

MicroImage Video Systems
division of World Video Sales Co., Inc.

Specifications

Input level	(Y, Video) 1 Vpp Composite, 75 Ω
	(RGB) 0.714Vpp Non-Comp,1 Vpp Composite, 75 Ω
	(Chroma) 0.286 Vpp burst level, 75 Ω
	(S) 5.0 Vpp max 75 Ω
Output level	Same as respective inputs ±3% into 75 Ω
Connectors	(Video) BNC female, (S-Video) 4 pin mini-DIN female
	(RGBS) 9 pin D-Sub female
Bandwidth	Greater than 20Mhz
Symbols total	40
Symbol types	arrows (24), box (4), corner (4), circle (4), cross (4)
Arrow symbol directions	8
Symbol Colors	9 foreground and 9 outline including transparent
Non-Volatile Memory	EEPROM
System Processor	16/32 bit
Display Controller	Custom MicroImage Video Integrated Display Controller
Pixel size	81nS (H) x 1 scan line (V)
Image Size	32x32, 64x64, 96x96, 128x128 pixels
Remote Interface	RS-232, Factory Optional
Temperature	
Operating	0E - 40E C (32E - 104E F)
Storage	-40E - 60E C (-40E - 140E F)
Humidity	
Operating	10% - 90% (non-condensing)
Storage	5% - 95% (non-condensing)
Power	
Voltage	+12VDC (10-20VDC)
Consumption	approximately 230mA at 12VDC
Size	9.00" (W) x 7.63" (D) x 2.88" (H)
	229 mm (W) x 194 mm (D) x 73 mm (H)
Weight	1 lb, 14 oz (851g)

Manufactured in USA by MicroImage Video Systems

Unpacking

The Video Pointer package includes the following items:

> VP300 or VP400 Video Pointer Unit
> 12VDC Power Supply
> This operation manual

Please inspect all items carefully and report damaged or missing items to your dealer or MicroImage Video Systems.

Connections

Power

The VP300/VP400 use an external +12VDC power supply. A 120VAC input adapter is included with the unit. An optional Universal, 120 to 230VAC input power supply is available as an extra cost option. Connect the power module to the Video Pointer and to an appropriate power source.

Video

Connect the video source (i.e. video camera) to the appropriate INPUT connector on the rear of the Video Pointer unit. Use the BNC connector for composite or B&W (VP300), the 4 pin connector for S-Video (VP300) and the 9 pin D-sub connector for RGB (VP400).

Connect the OUTPUT signal from the Video Pointer unit to the video displays as required. Each output can only have a single 75 ohm termination. You must use the same signal type and connector for output that was used for input.

If the signal must drive multiple monitor or other devices, please see the documentation for those devices for multiple unit connections. A Video Distribution Amplifier may be required, especially for S-Video signals. MicroImage Video Systems offers a variety of units for these applications (VDA series).

Operation

The Video Pointer has 9 switches and a Joystick controller on the front panel. All functions are controlled by these controls. Following is a description of each switch and the joystick.

Power

The power switch is used to turn the Video Pointer unit on or off. When off, the unit draws minimal power. When on, the power light will illuminate (green) and the pointer will be ready to use.

Bars

The internal color bar generator may be turned off or on with this switch. When the color bars are on, the red indicator next to the switch will be illuminated. Note that when color bars are on, you will not be able to see the video input signal (i.e. camera).

Display

The display switch allows you to turn the symbols on and off without affecting the background image. When the symbol display is turned on, the blue indicator will be illuminated.

Shape

This switch steps through the different symbols (shapes) available for display.

Size

This switch steps through each available size, four sizes except arrows which only have three.

Rotate

This switch steps through the eight directions of arrows and has no effect with other symbols.

Color

This switch will change the fill color of the symbol, cycling though the eight colors and transparent. Note, if the outline color is set to transparent, this switch will skip over the transparent selection. Fill and outline colors cannot both be transparent at the same time.

Outline

This switch will change the outline color of the symbol, cycling though the eight colors and transparent. Note, if the fill color is set to transparent, this switch will skip over the transparent selection. Outline and fill colors cannot both be transparent at the same time.

Flash

Enabling flash will cause the symbol to turn off and on a couple times per second making it much more visible.

Joystick

The joystick positioner is the control that moves the symbol image around the screen. The symbol moves in the same direction as the joystick movement.

Setting color or B&W Mode

The VP300 Video Pointer is compatible with both color and B&W signals. However it must be set to work with the proper signal type. The unit ships from the factory in the color mode. To set to B&W mode, follow this procedure:

1. Make sure the unit is OFF.
2. Press and hold down the COLOR switch and then press the POWER switch. Keep the COLOR button held down.
3. The blue LED will blink rapidly to indicate color/B&W set mode
4. The red LED will indicate whether the unit is in color or B&W mode. If it is illuminated, the unit is in color mode.
5. Release the COLOR switch to allow the unit to save the mode and operate normally.

To change the mode back to color, repeat this procedure.

Factory Default Settings

The VP300 and VP400 Video Pointers can be easily set to their factory default mode. Use the following procedure to reset the factory mode.

1. Make sure the unit is OFF.
2. Press and hold down the SIZE switch and then press the POWER switch. Keep the SIZE button held down.
3. After the unit powers up, release the SIZE switch.
4. The unit should now be set to the default factory settings.

In case of difficulty

If you are experiencing problems with your MicroImage product, you can contact us in one of the following ways.

Mail   MicroImage Video Systems
a division of World Video Sales Company, Inc.
PO Box 331
Boyertown, PA 19512
Phone   610-754-6800
Fax   610-754-9766
Email   support@mivs.com
Web   www.mivs.com

Applications and Additional Information

Please visit the MicroImage Video Systems web site for applications information about this product line.

Warranty

MicroImage Video Systems warrants that each VP300/VP400 is free from defects due to faulty materials or improper workmanship for a period of one (1) year. MicroImage Video Systems further warrants that any part which proves defective in materials or workmanship within one (1) year, will be replaced or repaired at no cost to the user. Labor to replace defective parts will be done without charge, provided the equipment is returned to MicroImage Video Systems prepaid, insured and properly packaged. Prior return authorization must be obtained from MicroImage Video Systems.

NOTE

This warranty covers the MicroImage VP300/VP400 Video Pointer only.

CONDITIONS

This warranty is void if the warranted part has been altered or subjected to abuse or misuse. Defective parts must be returned to MicroImage Video Systems.

SOLE WARRANTY

This Warranty is in lieu of all other warranties expressed or implied including, without limitation, any implied warranty or any implied warranty of fitness for a particular purpose. MicroImage Video Systems shall have the final right to determination as to the existence and cause of any defect and its appropriate adjustment in accordance with the terms of this warranty. In no event shall MicroImage Video Systems be liable for any consequential or collateral damages.

Returns

All returns MUST have an RMA number. Please call, fax or email for an RMA form. The RMA form will have the proper shipping address for returns.

Phone   610-754-6800
Fax   610-754-9766
Email   service@mivs.com