

WARRANTY

MicroImage Video Systems warrants that each VP820 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 VP820 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
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Email techsupport@mivs.com

HD Video Pointer Operation Manual

Model VP820

For HDMI or DVI Video

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VIDEO SYSTEM DETECTION

The VP820 Video Pointer is compatible with both HDMI and DVI progressive video signals. It will automatically detect the video resolution and adjust accordingly. It is not designed to work with interlaced video systems and operation with interlaced video signals is undefined. It also does not support audio or other data in an HDMI interface.

FACTORY DEFAULT SETTINGS

The VP820 Video Pointers can be easily set to their factory default mode. Use the following procedure to reset the unit to the factory default mode.

With the unit turned off, press and hold the Scale Size and Pointer Color buttons while turning the unit on. The LEDs will blink for about two seconds indicating a full factory reset is occurring. Do not turn off the power while the LEDs are blinking or this operation may need to be performed again.

IN CASE OF DIFFICULTY

If you are experiencing problems with any MicroImage product, you can contact MicroImage Support using the following methods:

Phone	610-754-6800
Fax	610-754-9766
Email	techsupport@mivs.com
Web	www.mivs.com

APPLICATIONS AND ADDITIONAL INFO

Please visit the MicroImage Video Systems web site at www.mivs.com for additional information about this product line.

Scale Color/ Value

This switch enables the rotary controls to set the color of the scale marker and set the value of the text below the marker. The left control adjusts the color while the right control selects the value. When pressed, the green LED above it will illuminate, indicating the two rotary controls can now be used to set the color and value of the scale marker. There are approximately two hundred active colors although the display will range from 0-255. There are seven text values available - Off, 1um, 5um, 10um, 50um, 100um and 500um. When finished, press the Scale Color/Value button again to return to the normal operating mode.

Pointer Color

This switch enables the rotary controls to set the color of the pointer. When pressed, the green LED above it will illuminate, indicating the two rotary controls will now set the colors of the pointer image. The left control will change the rim (outline) color of the pointer image and the right control will change the fill color of the arrow (if hollow is disabled). There are approximately two hundred active colors although the display will range from 0-255. When finished, press the Pointer Color button again to return to the standard operating mode.

Scale Visible (Scale Vis)

This switch will display the scale and value when enabled. An LED indicator next to the switch will illuminate when the scale marker visibility is enabled. This switch has no effect on the arrow, circle or square pointer.

Hollow

This switch will make the arrow symbol hollow when enabled. An LED indicator next to the switch will illuminate when the hollow mode is enabled. This switch has no effect on the pointer symbol.

Rotary Controls (C1, C2)

The two rotary controls allow for quickly changing the settings of several functions. The default operation for each control is to change the size of the pointer symbol (left control) and the orientation of the arrow (right control). The operation is modified when one of the four switches directly below the controls is pressed (see above). When the LEDs for all four of those switches are extinguished, then these controls operate in their normal (default) mode.

A brief on screen display block will indicate values when each control is moved.

Joystick

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

SPECIFICATIONS

Input	HDMI or DVI-D Video Signal
Output	HDMI or DVI-D Video Signal
Connectors	Video - HDMI Style, Power - 2.1mm Coaxial Barrel Conn.
Max Resolution	1920 x 1200 p 60
Symbol types	arrow, box, circle
Arrow symbol directions	8
Symbol sizes	Arrow - variable from about 35 to 255 pixels Box/Circle - variable from about 70 to 510 pixels
Sprite Colors	approximately 200 foreground and outline colors Center of arrow may be set to transparent
Non-Volatile Memory	EEPROM
System Processor	32 bit
Display Controller	Custom MicroImage HD Video Integrated Display & System Controller
Image Resolution	Supports most digital progressive signals from 640 x 480 up to 1920 x 1200.
System Scan	Progressive scan only (720p, 1080p, etc.), the VP820 does not support interlaced signals such as 1080i
Rendering System	Vector rendering system up to 512 x 512 pixels
Temperature	
Operating	0° - 50° C (32° □ 122° F)
Storage	-40° - 60° C (-40° □ 140° F)
Humidity	
Operating	10% - 90% (non-condensing)
Storage	5% - 95% (non-condensing)
Power	
Voltage	+12VDC (10-20VDC)
Consumption	approximately 325mA 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, 10 oz (735g)

Manufactured in USA by MicroImage Video Systems

UNPACKING

The Video Pointer package includes the following items:

VP820 HD Video Pointer Unit
12VDC Universal World 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 VP820 uses an external +12VDC power supply (included). A universal power supply is included that accepts an input from 120 to 230VAC. Adaptors are available to support power outlets in many parts of the world. Connect the power module to the Video Pointer "12VDC" and to an appropriate power source.

Video

Connect the video source (i.e. video camera) to the INPUT connector on the rear of the Video Pointer unit. Use a high quality HDMI cable for cameras with an HDMI connector or use a DVI to HDMI cable for cameras that have a DVI connector.

Connect the OUTPUT signal from the Video Pointer unit to the video displays as required. Use a high quality HDMI cable for monitors with an HDMI connector or use a DVI to HDMI cable for monitors that have a DVI connector.

MicroImage Video Systems offers appropriate quality cables for the above if required.

OPERATION

The Video Pointer has 16 switches, two rotary controls and a Joystick controller on the front panel. All functions are controlled by these controls. Following is a description of each.

Power Switch

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

Option

This switch is presently not used and reserved for future use.

Store

This switch is used to save the current settings into one of the ten on-board memories. When the switch is first pressed, the Red LED next to it will start to blink. That indicates it is waiting for a second key press from one of the number keys 0-9. It takes about a half second to store the

data after the numeric key is pressed. Press Store again or Cancel to abort the operation.

Recall

This switch is used to recall the current settings from one of the ten on-board memories. When the switch is first pressed, the Yellow LED next to it will start to blink. That indicates it is waiting for a second key press from one of the number keys 0-9. Press Recall again or Cancel to abort the operation.

Visible

The visible (display on/ff) switch allows you to turn the pointer symbols and the scale marker on and off without affecting the background (camera/video source) image. When the display is turned on, the blue indicator will be illuminated.

Shape

This switch steps through the different symbols (shapes) - arrow, circle and square.

Flash

Pressing the flash button will cause the symbol to turn off and on a few times per second, making it much more visible. Flash does not affect the scale marker display.

Menu

This switch is presently not used and reserved for future use.

Scale Size

This switch enables the set scale mode. When pressed, the green LED above it will illuminate, indicating the two rotary controls can now be used to set the scale (horizontal width) and vertical height of the scale marker. The left control will change the scale and the right control will change the height. Pressing the knob on the horizontal scale (left) control inward will allow the control to accelerate much faster, saving time for large changes. When finished, press the Scale Size button again to return to the normal operating mode.

Scale Position (Scale Pos)

This switch enables the rotary controls to set the position of the scale marker. When pressed, the green LED above it will illuminate, indicating the two rotary controls will now set the horizontal and vertical position of the scale marker. The left control will change the horizontal position while the right control will set the vertical position. Pressing the knob on either rotary control inward will allow the control to accelerate much faster saving time for large changes. When finished, press the Scale Position button again to return to the normal operating mode.