MPX100
Operation Manual

RS170/NTSC

Video Comparator System

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

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Description

The MicroImage MPX100 is designed to combine the images from two monochrome video cameras into one image. The images can be split on the screen showing a portion of each image or the two images may be mixed, or faded together as an overlay.

The images can be split in the horizontal or vertical direction. A lower right corner insert mode is also available. The A camera is always displayed on the left or top and the B camera is always displayed on the right or bottom. For the corner insert mode, the B camera is within the insert area in the lower right corner. The split portion can typically be adjusted over 100% of the screen area with the front panel control.

The Fade mode allows the two images to be added together. The mix can be adjusted over the full range from a full camera A image to a full camera B image.

The MicroImage PX101B1 is designed specifically to work seamlessly with the included M100 B&W video cameras.

Unpacking

The PIX/2 package includes the following items:

> PX101M1 controller
> 2 - M100 B&W Video Cameras
> DTS120150U Power Module
> 2 - CAB55006P camera cables
> 1 - CAB11006 BNC video cable
> This operation manual

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

Connections

Power

Plug the small connector on the cord end of the power module into the power input connector on the PIX/2 controller. Plug the power

module into the proper power source.

Cameras

Connect the CAMERA end of the one CAB55006P cable to the connector on camera A and the PIX/2 labeled end to the PX101M1 Camera A input. Do not mix up cable direction.

Connect the CAMERA end of the other CAB55006P cable to the connector on camera B and the PIX/2 labeled end to the PX101M1 Camera B input. Do not mix up cable direction.

Output

Connect the output of the PIX/2 to the video monitor or other output device.

Operation

Once connected properly, the PIX/2 is easy to use. Following is a description of each switch and control. When first testing the PIX/2, place the MIX control in the center of its range.

Power Pressing the power switch will turn the power on or off. The green indicator next to the power switch will light to indicate power is on. This will also control power to the two M100 video cameras.

Cam A Pressing the Cam A switch will change the display to show 100% of the camera A image. An indicator to the right of the switch will indicate this mode is selected.

H Split Pressing this key will cause the screen to be split, adjusted by the MIX control. Camera A will be displayed on the left side and camera B on the right side. An indicator to the right of the switch will indicate this mode is selected.

V Split Pressing this key will cause the screen to be split, adjusted by the MIX control. Camera A will be

displayed on the top and camera B on the bottom. An indicator to the right of the switch will indicate this mode is selected.

Corner Pressing this key will cause camera B to be placed as a corner insert. Camera A will be displayed on the top and left and camera B will be displayed in a lower right corner insert. The insert size is adjusted by the MIX control. An indicator to the right of the switch will indicate this mode is selected.

Fade Pressing this key will cause the camera images to be added together. The MIX control will adjust the amount of each image to be mixed and can fade completely from camera A to camera B images. An indicator to the right of the switch will indicate this mode is selected.

Cam B Pressing the Cam B switch will change the display to show 100% of the camera B image. An indicator to the right of the switch will indicate this mode is selected.

Mix The mix control is used to adjust the position of the split, the size of the corner insert, or the ratio of the fade. The control has no effect when the Cam A or Cam B switches are pressed.

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.
	P.O. Box 331
	Boyertown, PA 19512
Phone	610-754-6800
Fax	610-754-9766
Email	support@mivs.com
Web	www.mivs.com

Specifications

Image Sensor Type	½" Interline transfer CCD
Pixels	768x494 monochrome (6.4mm x 4.8mm area)
Lens Mount	C/CS
Pixel Clock Freq	14.318180Mhz
Horizontal Freq	15.73426Khz
Vertical Freq	59.94Hz
Shutter settings	Off, 1/125, 1/250, 1/500, 1/2000, 1/4000, 1/10000
Horiz Resolution	600 lines
S/N Ratio	Greater than 48dB
Sensitivity	0.02 Lux
Gamma	0.45 standard (1.0 factory optional - cable selected)
Video Output Level	1Vpp typical into 75 ohms
Connectors (PX101M1)	
M100 I/O	8 pin Mini-DIN
M100 Lens	4pin square
PX Cam A & B	6 pin Mini-DIN female
PX Output	BNC female
PX Power	2.1mm coaxial power
Sync System	RS-170, EIA
Bandwidth	Greater than 30 Mhz
Crosstalk	Greater than 50dB
Gain Match A to B	Typically within 2%
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	+11 to +13VDC (+12VDC typical), negative ground
Consumption	approx 600mA total (including cameras)
Protection	Automatic electronic fuses, internal, self resetting
Size	
M100	1.66"W x 1.89"H x 3.75"L (42 x 48 x 95mm)
PX101M1	
Weight	
M100	11oz (300g)
Power Module	
Part Number	DTS120150U
Type	Table top universal swittcher, UL/CSA/CE
Voltage	100 - 240 VAC, 47-63 Hz

PX101M1 Manufactured in the USA by MicroImage Video Systems

Warranty

MicroImage Video Systems warrants that each PX701C9 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 PX100M1 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