MPX309/709 Preliminary Operation Manual

Color Video Comparator System

Microl mage Video Systems division of World Video Sales Co., Inc

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Description

The MicroImage MPX309/709 is designed to combine the images from two color 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 PX701C9 is designed specifically to work seamlessly with the included YV209 color video cameras.

Unpacking

The PIX/2 package includes the following items:

PX701C9 controller DTS120150U Power Module 2 - CAB50415A camera cables 1 - CAB12006 S-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 a CAB50415A cable from camera A to the Cam A input on the PIX/2 controller.

Connect the CAMERA end of the other CAB50415A cable to the connector on camera B and the PIX/2 labeled end to the PX701C9 Camera B input.

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 YV209 color 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 A 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 1/2" 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

Gamma 0.45 standard (1.0 factory optional - cable

selected)

Video Output Level 1Vpp typical into 75 ohms

Connectors (PX701C9)

PX Cam A & B 8 pin Mini-DIN female RGB Output 9 Pin D-sub female S-Video Output 4 Pin Mini-DIN 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 4%

Temperature

Operating 0° ~ 40° C (32° ~ 104° F) Storage -40° ~ 60° C (-40° ~ 140° F)

Humidity

Operating 10% ~ 85% RH(non-condensing) Storage 5% ~ 95% RH(non-condensing)

Power

Voltage +11 to +13VDC (+12VDC typical), negative

ground

Consumption approx 1000mA total (including cameras)

Protection Automatic electronic fuses, internal, self resetting

Size

YV209 1.7"W x 2.0"H x 5.125"L (43 x 50 x 130mm) PX701C9 6.5"W x 5.6"H x 1.6"L (165 x 142 x 40mm)

Weight

YV209 12.4 oz (351.5g) PX701C9 16oz (450g)

Power Module

Part Number DTS120150U

Type Table top universal swittcher, UL/CSA/CE

Voltage 100 ~ 240 VAC, 47-63 Hz

PX701C9 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 PX701C9 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