CONTENTS

Model PG101
Model PG201
Model PG301
Model PG401
CrossLine Generator

JNPACKING Page 3
CONNECTIONSPage 3PowerPage 3Video ConnectionsPage 3RGB Video (PG401 only)Page 3S-Video (YC)Page 4VideoPage 4
DPERATION Page 4 POWER SWITCH Page 4 OFF SWITCH Page 4 ON SWITCH Page 4
PATTERN STYLE
N CASE OF DIFFICULTY Page 5
SPECIFICATIONS Page 6
NARRANTY Page 7
RETURNS Page 7

Microl mage Video Systems

division of World Video Sales Co., Inc

P.O. Box 331 Boyertown, PA 19512 610-754-6800 Fax 610-754-9766 info@mivs.com

www.mivs.com

Version PG401-00 Rev 00 09-30-2000 JWS

UNPACKING

The Pattern Generator package includes the following items:

PG101/201/301/401 Pattern Generator 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 Pattern Generator uses a 12VDC wall plug power supply or an option universal table top power supply. For medical applications, a special low leakage power unit is also available. Connect the power supply to a suitable power source. This product will also operate from a external source of 9 to 20VDC

Video Connections

The MicroImage Pattern Generator will operate with a variety of video signal formats. It automatically detects the correct signal. The model PG101 is for Composite Video and B&W video signal while the PG202 is for S-Video signal. The PG301 will operate with Composite/B&W or S-Video signals and the PG401 is for RGB/RGBS Applications.

RGB Video (PG401 only)

Connect the video source (i.e. camera) Red, Green, Blue and Sync signals to the RGB IN connector on the Pattern Generator.

Connect the RGB OUT signals from the Pattern Generator to the video display.

Note that a special cable may be necessary in order to use the RGB signals. The PG401 uses 9 pin D-Sub connectors for RGB with

industry standard pin connections. Contact your dealer or MicroImage Video systems for the proper cable.

S-Video (YC) (PG2101/301 only)

Connect the video source (i.e. camera) to the S-VIDEO IN connector on the Pattern Generator.

Connect the S-VIDEO OUT signal from the Pattern Generator to the video display.

The Pattern Generator uses industry standard mini-DIN connectors for S-Video

Video (NTSC Composite or B&W) (PG101/301 only)

Connect the video source (i.e. camera) to the VIDEO IN connector on the Pattern Generator

Connect the VIDEO OUT signal from the Pattern Generator to the video display.

OPERATION

The Pattern Generator is designed to be easy to operate while also providing maximum flexibility. All the controls are listed below.

POWER SWITCH The Power Switch and power indicator are located on the right side of the front panel.

OFF SWITCH Depressing the off switch will illuminate the red LED next to the switch. Video will follow through the unit but the pattern will not be displayed.

ON SWITCH Depressing the on switch will illuminate the green LED next to the switch. It will also display the pattern stored in the unit.

PATTERN STYLE

The PG101/PG201/PG301/PG401 Pattern Generator units contain a single custom generated pattern. This pattern cannot be altered by the user and is programmed into the unit.

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	support@mivs.com
Web	www.mivs.com

SPECIFICATIONS

Main Unit

Front panel switches On, Off and Power Line resolution 320 x 240 or 640 x 480 Sync system RS170A (North American NTSC timing) Genlock Precision Phase Locked Loop (PLL) Input levels NTSC 1.0 Vpp composite, 75 Ù S-Video 1.0 Vpp (Y), 0.286 Vpp burst (C), 75 Ù RGB 0.715 Vpp non-comp / 1.0 Vpp comp, 75 Ù Sync 0.3 - 4 Vpp, 75 Ù Output levels NTSC, S-Video, RGB Same as respective input ±5% into 75 Ù Sync Same as input level, up to 2 Vpp. Greater than 30 MHz Bandwidth Connectors NTSC / SYNC **BNC Female** S-Video 4 pin mini-DIN Female (Std. S-Video conn.) RGBS 9 pin D-sub female Temperature 0° ~ 40° C (32° ~ 104° F) Operating -40° ~ 60° C (-40° ~ 140° F) Storage Humidity Operating 10% ~ 90% (non-condensing) Storage 5% ~ 95% (non-condensing) Power 9 - 20 VDC, 3W max Size 5.6" (142 mm) x 6.2" (155 mm) x 1.2" (41 mm) Weight 15 oz. (425 q) Manufactured in Bechtelsville, PA USA by MicroImage Video Systems

Standard Power Unit - Wall Plug

Part Number	DPD120050-P5
Input	120VAC, 60Hz, 9W
Output	12VDC, 500mA non-regulated
Туре	Linear, very low leakage
Size	3.2" (78mm) x 1.9" (48mm) x 1.3" (32mm)
Weight	8 oz. (227g)

Option 220 Power Unit - table top with universal input

DTS120150U/AC1-P5
Universal, 100-240VAC, 47-63Hz, 0.4A, 3wire
12VDC, 1.5A, regulated
Switching, leakage about 160uA
3.9" (99mm) x 1.9" (48mm) x 1.4" (36mm)
6.5 oz. (184g) without power cord
Includes 120V US 3 wire power cord

WARRANTY

MicroImage Video Systems warrants that each Pattern Generator 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 Pattern Generator 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