

WARRANTY

MicroImage Video Systems warrants that each PG315 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 PG315 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 techsupport@mivs.com

Pattern Generator Operation Manual

Model PG315N

Model PG315P

With Five Standard Patterns

MicroImage Video Systems

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SPECIFICATIONS

Main Unit

| | |
|----------------------|---|
| Available Patterns | Five: cross hair, cross hatch, dots, target and center cross, plus off (no pattern display) |
| Front panel switches | Pattern Selects (6) and Power |
| Line resolution | 320 x 240 (NTSC) or 384x288 (PAL) |
| Sync system | NTSC (RS-170) or PAL (CCIR) |
| Genlock | Precision Phase Locked Loop (PLL) |
| Input Levels | |
| Composite | 1.0 Vpp composite, 75 Ω |
| S-Video | 1.0 Vpp (Y), 0.286 Vpp burst (C), 75 Ω |
| Output levels | |
| NTSC, S-Video | Same as respective input \pm 5% into 75 Ω |
| Bandwidth | Greater than 30 MHz |
| Connectors | |
| NTSC | BNC Female |
| S-Video | 4 pin mini-DIN Female (Std. S-Video conn.) |
| Temperature | |
| Operating | 0° ~ 40° C (32° ~ 104° F) |
| Storage | -40° ~ 60° C (-40° ~ 140° F) |
| Humidity | |
| Operating | 10% ~ 90% (non-condensing) |
| Storage | 5% ~ 95% (non-condensing) |
| Power | 9 - 20 VDC, 3W max |
| Size | 5.6" (142 mm) x 4.4" (112 mm) x 1.2" (41 mm) |
| Weight | 11 oz. (312 g) |

Manufactured in Bechtelsville, PA USA by MicroImage Video Systems

Power Unit - table top with universal input

| | |
|-------------|---|
| Part Number | DTS120200UC-P5P (or DTS120150U/AC1-P5) |
| Input | Universal, 100-240VAC, 47-63Hz, 0.4A, 3wire |
| Output | 12VDC, 2A (1.5A), regulated |
| Type | Switching |
| Leakage | about 100uA |
| Size | 4.25" (108mm) x 2.18" (56mm) x 1.4" (36mm) |
| Weight | 14 oz. (184g) with power cord Includes 120V US 3 wire power cord |

UNPACKING

The Pattern Generator package includes the following items:

PG315 Pattern Generator Unit
Universal DTS series 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 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 an external source of 9 to 20VDC

Video Connections

The MicroImage Pattern Generator will operate with a variety of video signal formats. The PG315 will operate with either composite/B&W or S-Video signals. Only one type of video signal should be connected at a time.

S-Video (YC)

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)

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.

The Pattern Generator uses industry standard BNC connectors for composite video.

Connecting inputs or outputs to both the mini-DINs and the BNC connectors simultaneously will result in a loss of video quality or improper operation.

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 LED next to the switch. Video will continue to flow through the unit but the pattern will not be displayed.

Pattern Switches Depressing a pattern switch will illuminate the LED next to the switch and display the pattern on the screen.

Brightness Rotating the brightness control clockwise will increase the brightness of the displayed pattern. Rotating the control counter-clockwise will cause the pattern to become darker. The brightness can be adjusted from black to white.

PATTERN STYLES

The PG315 Pattern Generator units contain five standard built-in patterns. These consist of the following:

Center Cross Hair
Cross Hair
Cross Hatch
Dots
Target

These patterns cannot be altered by the user and are 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 | techsupport@mivs.com |
| Web | www.mivs.com |