

RGB Programmable Generator

- PC Programming and Control Operates in Windows* Environment
- ROM Setup and Control for Stand-Alone Operations
- Analog RGB, Clock to 150 MHz, Model LT1611
- Both Analog and Digital RGB, Clock to 150 MHz/150MHz
- Digital Outputs 8-Bit Parallel, Handles Most Flat Panel Displays
- High Speed Switching Speeds Pattern Selection
- Power Saving Display Function as Specified in VESA Standards
- Graphic Design of Custom Test Patterns
- Stock Test Patterns Include SMPTE RP-133 & Flower Image
- X-Y Coordinates Locates Picture Faults
- Image Downloading from Scanners and Digital Cameras
- Accessories Provide LVDS Drive to LCD Panels
- Auto Pattern Switching and scroll Gauge Image-Decay Characteristics



LT1610A, LT1611 (LT1610A Shown)

This group of RGB generators offers dedicated analog, digital or combined analog/digital outputs to best suit application needs. Dot clock frequencies handle a wide range of applications ranging to SXGA (1200 x 1024). All in the group operate from user-replaceable ROMs making them ideal for production operations wherein parameters are not to be altered by operators. Remote control units (LT1610-01A) extend program selection to remote control points and widen operator control to signal output conditions including sync format and polarities. Full PC control gives the operator conditions and selection from stock and custom patterns.

Control extends to the graphic design of custom patterns and the downloading of images from digital still cameras or scanners. X-Y cursors permit the coordinates of defective pixels in the display to be accurately established and provision is made to test monitor power-saving actions spelled out in VESA standards. Fast image switching speeds production work by reducing the wait for new images to appear. Image sequencing may be programmed and scrolling window or character actions aid in gauging image decay characteristics. A factory option adds 2 MB of RAM to extend image memory to accommodate up to 6 VGA format images.

*Windows is a registered trademark of Microsoft Corporation in the United States and/or other countries.

key specifications

DOT CLOCK FREQUENCY

Analog (LT1610A, LT1611)

1.024-150 MHz (10 ppm)

Digital (LT1610A)

1/1 Clock Mode: 1.024-75 MHz

1/2 Clock Mode: 2.048-150 MHz

HORIZONTAL FREQUENCY

3.077-250 kHz, 8192 dots max

MAX SCAN LINES

8179 (interlace)

VIDEO MEMORY

(2048 x 2048) x 4

SCANNING

Progressive, Interlace, Interlace Shrink

ANALOG OUTPUTS (LT1610A, LT1611)

BNC: R, G, B, HS, VS, CS, DISP, CLK

DIGITAL OUTPUTS

(LT1610A)

Digital Output 1

R7-R0, G7-G0, B7-B0, HS, VS, CS, HD, VD

DISP, CLK, CTRL0, CTRL1, Vcc

(+5 V/+3.3 V)

Digital Output 2

R7-R0, G7-G0, B7-B0, Field (1/2 clock rate),

CTRL 2, Vcc

(+5 V/+3.3 V)

PATTERNS

33 stock patterns including still picture,

SMPTE RP-133, dot, crosshatch, color bars, grayscale, circle, window, character list, etc.

16 user-programmable patterns plus 1 special

PHYSICAL

Size (W x H x D)

11⁵/₈ x 2³/₄ x 8¹/₄ in.

295 x 72 x 210 mm

POWER REQUIREMENTS

90-250 V ac, 50/60 Hz

SUPPLIED ACCESSORIES

User ROM

Windows Application Software

OPTIONS

Still Picture Backup RAM (2 MB)

(NS-308)

OPTIONAL ACCESSORIES

LT1610-01A - Remote Controller

LT1615-01 - Remote Controller