

RGB Programmable Generators



LT1613, LT1614, LT1615 (LT1615 Shown)

This group of RGB generators offers dedicated analog, digital or combined analog/digital outputs to best suit application needs. High dot clock capabilities are featured, up to 260 MHz in analog, which allows operation in UXGA (1600 x 1200) systems. 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 (LT1615-01) 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 complete control over raster architecture, signal-output conditions and selection from stock and

- PC Programming and Control Operates in Windows* Environment
- ROM Setup and Control for Stand-Alone Operations
- Analog RGB, Clock to 260 MHz, Model LT1613
- Digital RGB, Clock to 200 MHz, (100 + 100MHz) Model LT1614
- Both Analog and Digital RGB, Clock to 260 MHz/200 MHz, Model LT1615
- Digital Outputs 8-Bit Parallel, Models LT1614 & LT1615, 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 133 & Flower Image
- Image Downloading
- X-Y Display Function Locates Pixel Coordinates (to Locate Display Faults)
- Auto Display Functions (Pattern Switching & Scroll)
- X-Y Coordinates Locates Pixel Faults

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 4 MB of RAM to extend image memory to accommodate up to 12 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 (LT1613, LT1615)

1.024-260 MHz (10 ppm)

Digital (LT1614, LT1615)

1/1 Clock Mode: 1.024-100 MHz

1/2 Clock Mode: 2.048-200 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

EXTERNAL CLOCK INPUT

116 dB μ , 50 Ω

ANALOG OUTPUTS (LT1613, LT1615)

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

SMA: ISP, Clock

TTL OUTPUTS

HS, VS, CS, HD, VD, CLK

DIGITAL OUTPUTS (LT1614/LT1615)

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, sub pixel, alignment, resolution, etc.

16 user-programmable patterns plus 1 special

PHYSICAL

Size (W x H x D)

LT1613

11⁵/₈ x 4⁵/₈ x 8¹/₄ in.

295 x 116 x 210 mm

LT1614, LT1615

11⁵/₈ x 5¹/₂ x 8¹/₄ in.

295 x 139 x 210 mm

POWER REQUIREMENTS

90 to 132, 180 to 250 V ac, 50/60 Hz

SUPPLIED ACCESSORIES

User ROM

Windows Application Software

OPTIONS

Still Picture Backup RAM (4 MB)

OPTION 71

TTL, R, G, B, I, R', G', B', I'

OPTIONAL ACCESSORIES

LT1610-01A - Remote Controller

LT1615-01 - Remote Controller