LT 1610A, LT 1611, LT 1612A (LT 1610A shown)

- ■ *PC Programming and Control Operates in Windows* Environment*
- ■ *ROM Setup and Control for Stand-Alone Operations*
- ■ *Analog RGB, Clock to 150 MHz, Model LT 1611*
- ■ *Digital RGB, Clock to 150 MHz, Model LT 1612A*
- ■ *Both Analog and Digital RGB, Clock to 150 MHz/200 MHz, Model LT 1610A*
- ■ *Digital Outputs 8-Bit Parallel, Models LT 1610A & LT 1612A, Handles Most Flat-Panel Displays*
- ■ *High Speed Switching Speeds Pattern Selection*
- ■ *Power Saving Display Function as Specified in VESA Standards*
- ■ *Graphic Design of Custom Tet Patterns*
- ■ *Stock Test Patterns Include SMPTE RP-133 & Flower Image*
- ■ *Image Downloading*
- ■ *X-Y Display Function Locates Pixel Coordinates (to Locate Display Faults)*
- ■ *Auto Display Functions (Pattern Switching & Scroll)*

This group of three 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 (LT 1610-01) 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 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.

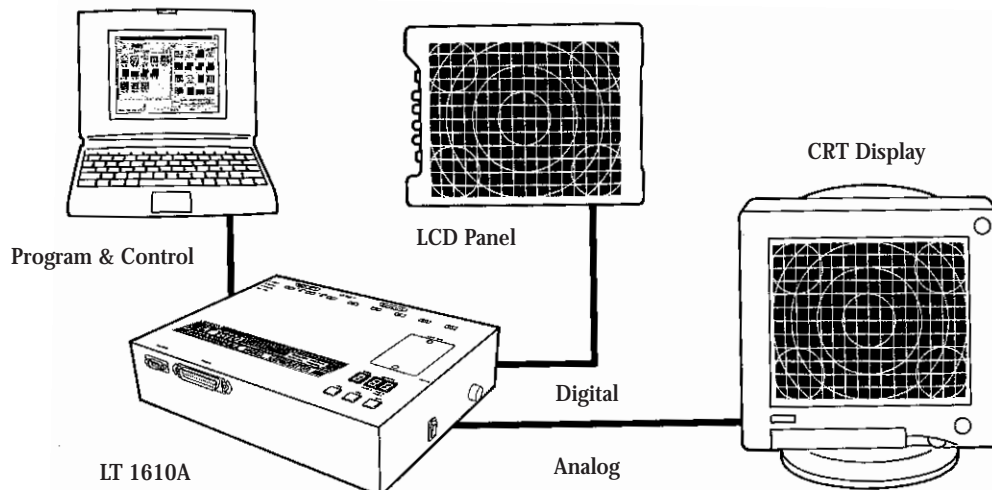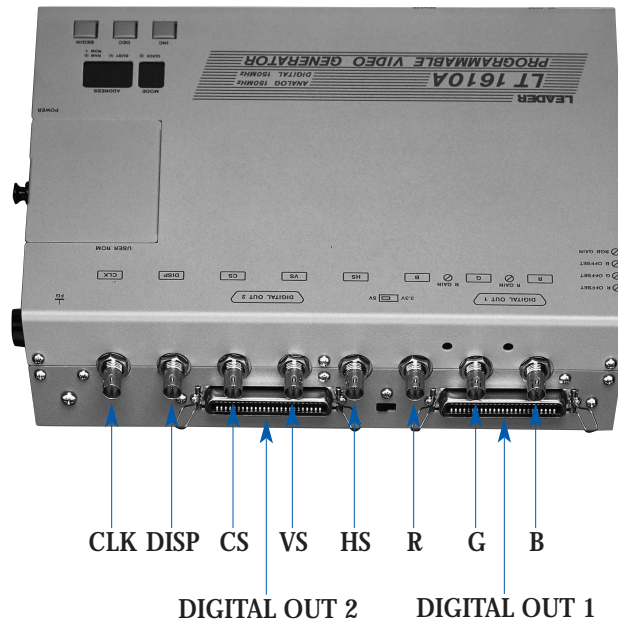CRT Display

LCD Panel

Program & Control

Digital

LT 1610A

Analog

RGB Programmable Generators

LT 1610A
Rear Panel

CLK DISP CS VS HS R G B

DIGITAL OUT 2   DIGITAL OUT 1

KEY SPECIFICATIONS (LT 1610A - LT 1612A)

DOT CLOCK FREQUENCY
Analog (LT 1610A, LT 1611)
  1.024-150 MHz (10 ppm)
Digital (LT 1610A, LT l612A)
  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.
SCAN LINES
  8179 (interlace)
VIDEO MEMORY
  (2048 x 2048) x 4
PATTERNS
Stock
  28 fixed patterns (still picture, SMPTE
  RP-133, dot, crosshatch, gray scale,
  window, character list, circle, etc.)
Custom
  16 programmable patterns (15 variable
  parameters and 1 special)
SIGNAL OUTPUT LEVELS
Analog (LT 1610A, LT 1611)
  Video: RGB 0.300-1.2 V
  Sync, DISP: 5 V 3.3 V selectable
          (5 V only LT 1611)
  Setup : On/off (complies with RS-343A)
Clock Output
  ECL amplitude, AC coupled
Output Connectors
  R, G, B, HS, VS, CS, DISP, CLK: BNC
Digital (LT 1610A, LT 1612A)
  CMOS/TTL 5 V/3.3 V selectable

DIGITAL OUTPUTS (LT 1610A, LT 1612A)
Video Output 1
  R7-R0, G7-G0, B7-B0, HS, VS, CS, HD,
  VD, DISP, CLK, CTRLO, CTRL1,
  V cc (+5 V/+3.3 V)
Video Output 2
  R7-R0, G7-G0, B7-B0, ($1/2$ clock rate),
  CTRL2, V cc (+5 V/+3.3 V)
Output Connector
  Amphenol 57 series, 50 pin
ANALOG CONTROLS (LT 1610A, LT 1611)
  RGB video
  On-off
Fine Output Adjustment
  Offset RGB: individual
  Video Level: RGB common
  RGB Balance: R & B only
Composite Video
  Sync On/Off on green only
PULSE/SCAN CONTROL
Equalizing Pulse
  Off, 0.5H, 1H
Serration Pulse
  Off, 0.5H, 1H
Scanning
  Non-interlace (progressive), interlace,
  interlace shrink
OUTPUT CONTROL
  On/off and inverted RGB
  On/off and ± HS, VS, CS, HD, VD, DISP, CLK

EXTERNAL INTERFACE
  RS-232C: D-sub 9-pin connector
  Remote: Amphenol 57 series,
              36-pin connector
ENVIRONMENTAL
Operating Temperature
  0-40°C
POWER REQUIREMENTS
  90-250 V ac, 50/60 Hz
PHYSICAL
Size (W x H x D)
  $11^{5}/_{8}$ x $2^{3}/_{4}$ x $8^{1}/_{4}$ in.
  295 x 72 x 210 mm
SUPPLIED ACCESSORIES
  User ROM
  Windows Application Software
  Spare Fuse
OPTIONAL ACCESSORY
  LT 1610-01 Remote Control
  LT 1609-06/LT 1609-012) Video
  Distributor
AVAILABLE OPTION
  Still Picture Backup Ram (2 MB)