

# LTC 2821/90 Color Video Monitor

- 51-cm (20-in) Viewing Diagonal
- 450 TVL Resolution
- PAL & NTSC Format
- Two Composite Video Inputs
- One Y/C Input
- Auto-termination
- Audio Capability
- Wide Range Power Supply
- Compact, Space-saving Design



The LTC 2821/90 is a color monitor with a 51 cm (20 inch) viewable picture area and multistandard compatibility. With a built-in loudspeaker and inputs able to accept NTSC, PAL, and S-video standards, the LTC 2821/90 monitor offers maximum flexibility for a wide variety of applications.

The monitor incorporates a 21-inch (diagonally measured) display tube with a stripe pitch of 0.7 mm (0.027 inch), which delivers outstanding color reproduction and picture clarity with more than 450 TV lines of horizontal resolution.

The LTC 2821/90 has two sets of composite video inputs and a Y/C input for S-video signals. Each of these inputs has auto-termination and provides bridged outputs. The monitor also features an auto-detect function,

which identifies whether input signals are NTSC or PAL and automatically switches mode accordingly. It also provides a "no input" on-screen indication in the event of loss of video signal.

Monitor adjustments are made via the front control buttons together with the Volume (Data) control buttons. Selections and adjustments can be made to monitor functions such as picture sharpness, tint, color, brightness, and contrast. An "On-screen Display" provides feedback information of the selected settings.

The speaker volume is also adjustable with push-button switches arranged conveniently on the front panel for easy access.

The LTC 2821/90 monitor is housed in a compact, space-saving metal cabinet for rugged reliability.

# SPECIFICATIONS

## Electrical

Model No.	Rated Voltage	Voltage Range	Power at Rated Voltage	Sync Format
LTC 2821/90	230 VAC, 50 Hz 120 VAC, 60 Hz	207 to 253 108 to 132	75 W 75 W	PAL NTSC

**Display Tube:** 53 cm (21 in) measured diagonally, 90° deflection stripe pitch 0.7 mm (0.027 in), in-line guns, integral implosion protection.

**Viewable Picture Area:** 51 cm (20 in) measured diagonally.

### Linearity:

Horizontal: Within  $\pm 7\%$ .

Vertical: Within  $\pm 7\%$ .

**Horizontal Resolution:** 450 TV lines, typical.

### Video Input:

Composite Video: 0.5 to 2.0 V<sub>p-p</sub>, sync negative. Automatic switching from 75  $\Omega$  unbalanced termination to Hi-Z with looped-through operation.

Y/C:

Impedance: 75  $\Omega$  unbalanced, bridge-out possible, auto termination.

Y-signal: 0.7 V<sub>p-p</sub>.

C-signal: 0.3 V<sub>p-p</sub>.

### Audio Input:

Line Level: 300 mV.

Impedance: 47 k $\Omega$ .

### Audio Output:

Loop-through line level.

Speaker: 1.2 W.

### Controls:

Front Panel:

Sharp.

Tint.

Color.

Brightness.

Contrast.

Volume.

Video input selection switch.

Power on/off.

### Indicators:

Front Panel LEDs:

Video A (composite).

Video B (composite).

Video C (Y/C).

On-Screen Text:

Adjustment level.

Video input signal indication.

Loss of video signal.

### Connectors:

Power input socket.

Composite Video A: 2 BNC.

Composite Video B: 2 BNC.

Y/C Video C: 2 mini DIN.

Input/Output Audio Terminals: 6 RCA phono jacks.

### Power Cord:

1.83 m (6 ft) with European Continental type.

1.83 m (6 ft) with plug US type.

## Mechanical

### Cabinet:

Material: Steel with plastic front.

Finish: Charcoal.

**Dimensions:** 490 W x 483 D x 444 H mm

(19.3 x 19.0 x 17.5 in).

**Weight:** 25 kg (55 lb).

## Environmental

### Temperature:

Operating: 0°C to +40°C (+32°F to +104°F).

Storage: -25°C to +50°C (-13°F to +122°F).

**Humidity:** 20% to 80% relative, noncondensing.

## Electromagnetic Compatibility

### EMC Requirements:

Immunity: EN50082-1 1992.

Emission: EN50081-1 1992.

FCC Part 15, Class A.

Product complies with DHHS Rules 21 CFR applicable at the date of manufacture.

### Safety:

CE, LVD Requirements: EN60065 1993.

UL: UL 1410.

cUL: CSA 22.2, No. 1.

