

# LTC 2372 Series, LTC 2376 Series LTC 2375 Series, LTC 2377 Series VidQuad® Digital Video Processors

- Basic or Full Featured
- Color or Monochrome
- Real Time Update Rate
- Sequencing or Quad Display
- Alarms & Video Loss
- Programmable Titles & Time/Date
- External Control via RS-232
- Zoom Playback
- Supports External RS-232 Time/Date Input



VidQuad® Digital Video Processors use advanced circuitry to produce high quality, true-to-life video. Each input uses an automatic gain and level circuit that increases image accuracy without the annoying on-screen flickering (aliasing) commonly associated with multiscreen displays. The image display is updated at the field rate of 60 fields per second for EIA/NTSC or 50 fields per second for CCIR/PAL, providing genuine real time video. These video processors require no external synchronization and accept video inputs with 2:1 interlaced source.

The LTC 2372 Series and LTC 2375 Series VidQuad Digital Video Processors are designed for easy installation in applications where you

want to view up to four cameras on a single monitor. They offer a full time quad display with no user controls required – truly *plug & play*.

The LTC 2376 Series and LTC 2377 Series units are full featured Digital Video Processors which include a primary output and a secondary output (VCR Out). The primary output can be set for the following display options:

- Quad display (all four cameras)
- Full screen display (any camera)
- Sequencing with programmable dwell time

Both of the outputs that display time/date are programmable. Camera titles can accept eight characters per camera.

These video processors always record in Quad mode, but recorded images can be viewed *full screen* using the built-in electronic zoom playback.

These units allow user-friendly on-screen programming for quick-and-easy setup. In addition, remote control of the unit, as well as synchronization with external time/date signals, is available via an RS-232 connection. Other features include a flashing Alarm indicator, programmable audible alarm, and an alarm output relay for control of a VCR or other device. Also included are front panel *alarm clear*, user programmable alarm dwell time, and a video loss indicator.

# SPECIFICATIONS

## Electrical

Model No.	Rated Voltage <sup>1</sup>	Voltage Range	Nominal Power <sup>2</sup>	Sync Format
<i>Monochrome Models</i>				
LTC 2372/50	230 VAC, 50 Hz	210 to 260	4 W	CCIR
LTC 2372/60	120 VAC, 50 Hz	105 to 135	4 W	EIA, RS-170
LTC 2376/50	230 VAC, 50 Hz	210 to 260	4 W	CCIR
LTC 2376/60	120 VAC, 50 Hz	105 to 135	4 W	EIA, RS-170
<i>Color Models</i>				
LTC 2375/50	230 VAC, 50 Hz	100 to 240	6 W	PAL
LTC 2375/60	120 VAC, 50 Hz	100 to 240	6 W	NTSC
LTC 2377/50	230 VAC, 50 Hz	100 to 240	6 W	PAL
LTC 2377/60	120 VAC, 50 Hz	100 to 240	6 W	NTSC

1. Using included power adapter.
2. At rated voltage.

## Digital Memory:

LTC 2372 Series: 768 x 625 CCIR; 762 x 525 EIA, RS-170.  
LTC 2376 Series: 768 x 625 CCIR; 762 x 525 EIA, RS-170.  
LTC 2375 Series: 720 x 576 PAL; 720 x 480 NTSC.  
LTC 2377 Series: 720 x 576 PAL; 720 x 480 NTSC.

## Video:

Monochrome: 10 bit, 256 gray scales.  
Color: 8 bit and 16 bit, 16 million color palette.

## Controls & Indicators (LTC 2376, LTC 2377 Series):

VCR: One push button with LED indicator; selects VCR display on monitor.  
Menu: One push button; selects on-screen menu.  
Sequence/Alarm: One push button with LED indicator; selects sequencing and alarm clear functions.  
Camera Select (Arrow): Four push buttons with LED indicators; selects one input for full screen display of cameras 1, 2, 3, or 4. During programming, used as directional keys.  
Quad/Enter: One push button with LED indicator; selects quad display on monitor. During programming, used to enter or set parameters.

## Connectors:

LTC 2372, LTC 2375 Series:  
Video Inputs: 4, BNC.  
Video Outputs: 1, BNC.  
Monitor Output: 1, BNC.  
Power Input: 1, Class II Bayonet.

LTC 2376, LTC 2377 Series:  
Video Inputs: 4, BNC.  
Video Outputs: 4, BNC, loop-through, auto-terminating.  
Monitor Output: 1, BNC.  
VCR Input: 1, BNC.  
VCR/Video Output: 1, BNC (secondary monitor output).  
Alarms/RS-232: 1, 15-pin D.  
Power Input: 1, Class II Bayonet.

## Power Adapters (Included):

LTC 2372/50, LTC 2376/50: Input 230 VAC, 50 Hz,  
Output 9 VDC, 500 mA.  
LTC 2372/60, LTC 2376/60: Input 120 VAC, 60 Hz,  
Output 9 VDC, 500 mA.  
LTC 2375, LTC 2377 Series: Input 100–240 VAC, 50/60 Hz,  
Output 5 VDC, 3.0 A.

## Mechanical

**Construction:** Steel chassis with sheet metal cover.

**Finish:** Charcoal.

**Dimensions:** 430 W x 300 D x 44 H mm  
(16.9 x 11.8 x 1.73 in).

## Weight:

LTC 2372 Series, LTC 2375 Series: 2.9 kg (6.4 lb).  
LTC 2376 Series, LTC 2377 Series: 3.0 kg (6.7 lb).

## Environmental

### Temperature:

Operating: 0 °C to 55 °C (32 °F to 131 °F).  
Storage: –40 °C to 70 °C (–40 °F to 158 °F).

**Humidity:** 10% to 95% relative, noncondensing.

## Electromagnetic Compatibility

### EMC Requirements:

Immunity: Complies with EN50130-4, Alarm Standard (CCTV systems, for security applications).  
Emission: Complies with FCC (Class A), ICES-003, and CE Regulations.

**Safety:** Complies with UL, CSA, and EN Standards.



# PHILIPS

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