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



- ▶ Basic or full-featured
- ▶ Color or monochrome
- ▶ Real time update rate
- ▶ Sequencing or quad display
- ▶ Alarms and video loss
- ▶ Programmable titles and 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 and 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.

## Functions

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

## Certifications and Approvals

Electromagnetic Compatibility (EMC)	Complies with FCC Part 15, ICES-003, and CE regulations
Product Safety	Complies with CE regulations, UL, CSA, EN, and IEC Standards

## Technical Specifications

### Electrical

Model No.	Rated Voltage	Voltage Range <sup>1</sup>	Nominal Power <sup>2</sup>	Sync Format
<b>Monochrome Models</b>				
LTC 2372/50	230 VAC, 50 Hz	210 to 260 VAC	5.0 W	CCIR
LTC 2372/60	120 VAC, 60 Hz	105 to 135 VAC	5.0 W	EIA, RS-170
LTC 2376/50	230 VAC, 50 Hz	210 to 260 VAC	5.5 W	CCIR
LTC 2376/60	120 VAC, 60 Hz	105 to 135 VAC	5.5 W	EIA, RS-170
<b>Color Models</b>				
LTC 2375/50	230 VAC, 50 Hz	100 to 240 VAC	6.0 W	PAL
LTC 2375/60	120 VAC, 60 Hz	100 to 240 VAC	6.0 W	NTSC
LTC 2377/50	230 VAC, 50 Hz	100 to 240 VAC	7.0 W	PAL
LTC 2377/60	120 VAC, 60 Hz	100 to 240 VAC	7.0 W	NTSC

<sup>1</sup> Using included power adapter.

<sup>2</sup> At rated voltage.

### Digital Memory

LTC 2372 Series	704 x 525 CCIR; 704 x 480 EIA, RS-170
LTC 376 Series	704 x 525 CCIR; 704 x 480 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	9-bit, 182 gray scales
Color	8-bit and 16-bit, 16 million color palette

### Controls and 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.

### LTC 2372, LTC 2375 Series

Video Inputs	Four (4), BNC
Video Outputs	One (1), BNC
Monitor Output	One (1), BNC
Power Input	One (1), Class II Bayonet

Earth Ground	One (1), Phillips head screw
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### LTC 2376, LTC 2377 Series

Video Inputs	Four (4), BNC
Video Outputs	Four (4), BNC, loop-through, auto-terminating
Monitor Output	One (1), BNC
VCR Input	One (1), BNC
VCR/Video Output	One (1), BNC (secondary monitor output)
Alarms/RS-232	One (1), 15-pin D
Power Input	One (1), Class II Bayonet
Earth Ground	One (1), Phillips head screw

### Power Adapters (Included)

All models	Input 100–240 VAC, 50/60 Hz Output 5 VDC, 2.0 A
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### Mechanical

Construction	Steel chassis with sheet metal cover
Finish	Charcoal
Dimensions (W x D x H)	430 x 300 x 44 mm (16.9 x 11.8 x 1.73 in.)

### Weight

LTC 2372 Series, LTC 2375 Series	2.8 kg (6.1 lb)
LTC 2376 Series, LTC 2377 Series	3.0 kg (6.5 lb)

### Environmental

Operating Temperature	0°C to 55°C (32°F to 131°F)
Storage Temperature	–40°C to 70°C (–40°F to 158°F)
Humidity	10%–95% relative, non-condensing

## Ordering Information

LTC 2372/50 VidQuad Monochrome Digital Video Processor four (4) BNC video inputs, one (1) BNC video input, 230 VAC, 50 Hz	896023725001
LTC 2372/60 VidQuad Monochrome Digital Video Processor four (4) BNC video inputs, one (1) BNC video input, 120 VAC, 50 Hz	896023726001
LTC 2376/50 VidQuad Monochrome Digital Video Processor four (4) BNC video inputs, four (4) BNC, loop-through auto-terminating video outputs, RS-232 connection, 230 VAC, 50 Hz	896023765001
LTC 2376/60 VidQuad Monochrome Digital Video Processor four (4) BNC video inputs, four (4) BNC, loop-through auto-terminating video outputs, RS-232 connection, 120 VAC, 50 Hz	896023766001

## Ordering Information

LTC 2375/50 VidQuad Color Digital Video Processor 896023755001  
four (4) BNC video inputs, one (1) BNC video input, 230 VAC, 50 Hz

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LTC 2375/60 VidQuad Color Digital Video Processor 896023756001  
four (4) BNC video inputs, one (1) BNC video input, 120 VAC, 50 Hz

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LTC 2377/50 VidQuad Color Digital Video Processor 896023775001  
four (4) BNC video inputs, four (4) BNC, loop-through auto-terminating video outputs, RS-232 connection, 230 VAC, 50 Hz

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LTC 2377/60 VidQuad Color Digital Video Processor 896023776001  
four (4) BNC video inputs, four (4) BNC, loop-through auto-terminating video outputs, RS-232 connection, 120 VAC, 50 Hz

### Americas:

Bosch Security Systems  
130 Perinton Parkway  
Fairport, New York, 14450, USA  
Phone: +1 585 223 4060  
Fax: +1 800 289 0096  
security.sales@us.bosch.com  
www.boschsecurity.us

### Europe, Middle East, Africa:

Bosch Security Systems B.V.  
P.O. Box 80002  
5600 JB Eindhoven, The Netherlands  
Phone: +31 40 27 83955  
Fax: +31 40 27 86668  
emea.securitysystems@bosch.com  
www.boschsecurity.com

### Asia-Pacific:

Bosch Security Systems Pte Ltd  
38C Jalan Pemimpin  
Singapore 577180  
Phone: +65 6319 3450  
Fax: +65 6319 3499  
apr.securitysystems@bosch.com  
www.boschsecurity.com

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