


BOSCH

Invented for life

LTC 2380/90, LTC 2382/90 Digital Video Quad Processor



- ▶ Auto detects Color and B/W cameras and PAL/NTSC signals
- ▶ Real-time display and record update rate
- ▶ Sequencing Full Screen or Quad display
- ▶ Video loss detection
- ▶ RS-232 control
- ▶ Programmable alarm features
- ▶ Two relay outputs

The LTC 238x/90 Digital Video Processors use the latest integrated technology to produce high quality, real time video in both Full and Quad Screen Modes. The video processor auto detects the applicable video standard, PAL or NTSC, and configures itself accordingly. In addition the unit will detect color or B/W cameras and configures itself accordingly.

The display is updated at the field rate of 60 fields per second for EIA/NTSC or 50 fields per second for CCIR/PAL, providing real time video. These video processors require no external synchronization and accept video inputs with 2:1 interlaced source.

System Overview

LTC 2380/90

The LTC 2380/90 Digital Video Processor is designed for easy installation in applications where four cameras need to be viewed on a single monitor. It offers a quad display with no user controls required - truly plug and play.

LTC 2382/90

The LTC 2382/90 is a full-featured Digital Video Processor that includes a monitor output plus a second output (REC Out) for video recording devices. The Monitor output can be set for the following display options:

- Quad display (all four cameras).
- Full Screen display (any camera).

- Sequencing with programmable dwell time. The LTC 2382/90 allows recording in Quad mode or Full-screen mode of individual cameras. Quad recorded images can be viewed in full screen using the built-in zoom playback.

These units allow user-friendly on-screen programming for quick-and-easy setup, including setting 8-character camera titles.

The LTC 2382/90 allows for remote control and external time/date synchronization via an RS-232 connection. Several units may be daisy chained together so that all can be controlled from one PC.

Other features include a flashing Alarm indicator, programmable audible alarm, a video loss output relay and an alarm output relay for control of a VCR or a DVR. Also available 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

Input Mains Voltage to External Power Supply (all models)

Voltage	90 to 265 VAC
Frequency	47 to 63 Hz
Nominal Power	10 W

DC Voltage (into unit)

Voltage	5 VDC \pm 5%, 10 W
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Video Format

Resolution

All models auto detect the applicable video standard, PAL or NTSC, and configures itself accordingly.

- PAL 720 x 625
- NTSC 720 x 525

Controls and Indicators

Front Panel–LTC 2382/90

Power Indicator is illuminated when Power is applied to the unit.

- **PLAY** Button with LED indicator; selects playback video display on monitor
- **MENU** Button; selects on-screen menu
- **SEQ/ALM** Button with LED indicator; selects sequencing and alarm clear functions
- **Camera Select (Arrow)** Four (4) push buttons with LED indicators; selects a video input (camera 1, 2, 3 or 4) for full screen display. Used as menu navigation keys during programming.
- **QUAD/RETURN** Button with LED indicator; selects quad display on the monitor. Used to enter or set parameters during programming.

Connectors–LTC 2382/90

- **Video Input** Four (4) BNC, with auto switched 75 Ω termination¹
- **Video Output** Four (4) BNC, loop through¹
- **Monitor Output** One (1) BNC, 75 Ω output impedance
- **PLAY IN** One (1) BNC, 75 Ω terminated
- **REC OUT** One (1) BNC, 75 Ω output impedance
- **ALM/RS232** 15-way D-type, breakout terminal block
- **Power Input** DC power jack
- **Chassis Earth** Phillips screw

Connectors–LTC 2380/90

- **Video Input** Four (4) BNC, with auto switched 75 Ω termination¹
- **Video Output** Four (4) BNC, loop through¹
- **Monitor Output** One (1) BNC, 75 Ω output impedance
- **Power Output** DC power jack
- **Chassis Earth** Phillips screw

1. 75 Ω termination is normally connected to the video input. If a loop through is connected, however, this 75 Ω termination is switched out and termination must be supplied by the downstream equipment

Electrical Ratings–Rear Panels

Video Input Voltage	2 Vp-p max. 0.5 Vp-p min.
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Relay Outputs	30 V max. at 1 A
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Alarm Inputs	–0.3 V to 30 V max.; internal 22 K pull-up
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Alarm I/P Threshold	1.5 VDC
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Alarm I/P Voltage (Low)	0.7 VDC max.
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RS232	Fully compliant EIA-232
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Mechanical

Rack Mount Kit	Hardware included to mount either a single unit or two connected units in a 19-in. rack
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Construction	Steel chassis
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Finish	Charcoal
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Dimensions (W x D x H)	220 x 296 x 42 mm (8.66 x 11.65 x 1.65 in.)
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Weight

- LTC 2380/90 1.5 Kg (3.31 lbs)
- LTC 2382/90 1.8 Kg (3.97 lbs)

Environmental

Operating Temperature	0°C to 45°C (32°F to 113°F)
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Storage Temperature	–35°C to 65°C (–31°F to 149°F)
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Humidity	< 95%
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Ordering Information

Digital Video Quad Processor Four (4) BNC video inputs, four (4) BNC video outputs, PAL/NTSC, 90-265 VAC, 47-63 Hz, 1.5 Kg (3.31 lbs)	LTC 2380/90
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Programmable Digital Video Quad Processor Four (4) BNC video inputs, four (4) BNC video outputs, video recording and playback, PAL/NTSC, 90-265 VAC, 47-63 Hz, 1.81 Kg (3.97 lbs)	LTC 2382/90
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LTC 2380 Digital Video Quad Processor	LTC 2380
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LTC 2382 Digital Video Quad Processor	LTC 2382
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