



PRODUCT SPECIFICATION

TLR3040 Series Video Cassette Recorder

40-HOUR/24-HOUR REAL-TIME, HIGH DENSITY TIME-LAPSE VCR



UL LISTED

Product Features

- "Real-Time" High Density 24-Hour Recording
- 6/18/30 or 8/24/40 Hour Time-Lapse Recording
- Repeat Recording
- Series Recording with Multiple Recorders
- Daily/Weekly/Holiday Recording Schedules
- Audio Recording up to 40 Hours
- One-Button Recording Check
- Jog/Shuttle for Easy Forward or Reverse Field Playback
- Search Using Alarm Index, Time and Date, Skip
- On-Screen Programming
- Interfaces with Pelco Genex® Multiplexers
- Automatic Head Cleaning

The **TLR3040** is a full-featured, versatile, 40-hour time-lapse recorder designed for a wide variety of security applications. From simple, small retail applications to large industrial security systems, the **TLR3040** has the features needed to satisfy almost any application.

The **TLR3040** can record for 6, 18, or 30 hours on a T-120 tape cassette or 8, 24, or 40 hours on a T-160 tape. Playback in 2H mode is 2 hours on a T-120 tape and 2 hours and 40 minutes on a T-160 tape. In addition, the **TLR3040** can be programmed to record specific time periods on a daily or weekly schedule. It can also be set up to record only upon activation by an external alarm. Recording time can be extended significantly by combining these features with the time-lapse capability. 20 fields/second "real-time" recording is available in L24H mode with T160 tape.

The **TLR3040** can also be programmed for repeat recording. This means when the end of the tape is reached, the unit automatically rewinds and begins recording again. However, if an alarm is received during recording, the unit stops at the end of the tape. The **TLR3040** also has an end-of-tape output that can activate another recorder. This feature allows multiple **TLR3040s** to be connected to increase the system's recording time.



- Complete or Partial Front Panel Lock
- Battery Backup of Settings
- Elapsed Time Display
- Tape Use Counter
- Daylight Saving Time Setting

Special playback features include speed search and reverse playback. With the front panel jog/shuttle controls, users can quickly search the recording in either direction, then easily switch to forward/reverse, field-by-field movement for detailed study. Users can also search to the minute for a specific date and time.

The **TLR3040** can be easily set up using programming menus displayed on the video monitor. The menus can be accessed at the press of a button.

Full and partial lock modes block all or some front panel functions, preventing changes to the unit's settings. A tape use counter displays how many times the same tape has been re-used in repeat recording mode (useful in monitoring tape replacement). Another useful maintenance feature in scheduling preventative maintenance and head replacement is the elapsed time of recording and playback.

The **TLR3040** has a programmable clock pulse output for easy interfacing with Pelco Genex Series Multiplexers for automatic speed tracking.

VIDEO RECORDERS

TIME-LAPSE, 40-HOUR



International Standards Organization Registered Firm ISO 9001 Quality System



TECHNICAL SPECIFICATIONS

MODEL

TLR3040 Time-lapse NTSC VCR with standard 6- and 8-hour recording modes and time-lapse recording modes for 18, 24, 30, and 40 hours (depending on type of tape). Playback in 2H mode is either 2 hours or 2 hours and 40 minutes (depending on type of tape).

ELECTRICAL/VIDEO/AUDIO

Power Source 100-230 VAC, 50/60 Hz (included power cord is for 120 VAC, 60 Hz)

Power Consumption Rating Approximately 20 watts

ALM/CALL/MODE Active: "low" level, maximum current 50 mA (+5 VDC)/10 mA (+24 VDC)
Non-active: open, maximum voltage +24 VDC

ALM/RST/REC Active: when terminals are short-circuited or "low" level voltage is applied
Non-active: open

CLK Recording: a pulse of the frequency division ratio selected in Rear Terminal menu

Television System 525 lines, 60 fields, NTSC-type color system

Horizontal Resolution More than 330 lines (black and white)
More than 240 lines (color)

Video Recording System Four rotary heads

Luminance Signal Frequency modulation recording

Color Signal Low frequency conversion, sub-carrier phase shift recording

Audio Track One track

Tape Format VHS, 1/2-inch width high-density video cassette tape

Tape Speed and Recording Time See table below

Fast Forward/Rewind Time Approximately 160 seconds with T-160 tape

Heads

- Video Four rotary heads
- Audio/Control One stationary head
- Erase One full-track head

Motors Three direct drive (drum, capstan)

Video Input/Output 1.0 Vp-p, 75 ohms, BNC plug

Audio Input 308 mV (rms), 50 ohms, RCA plug

Audio Output 388 mV (rms), 1 ohm, RCA plug

Audio Frequency Response 70 Hz to 4 kHz (8H mode)

Signal-to-Noise Ratio

- Video >42 dB
- Audio >43 dB

Alarm Recording Time

- Timed 15 sec/30 sec/45 sec/1 min/2 min/5 min/10 min
- Manual MAN1 – Until the alarm reset terminal is grounded
MAN2 – While the alarm in terminal is grounded

Display Format

- Display Mode 1 (Month)-(Day)-(Year) (Hour):(Minute):(Second) (Alarm recording no.)
- Display Mode 2 (Month)-(Day)-(Year) (Day of week) (Alarm recording no.) (Hour):(Minute):(Second) (Recording mode)

Display Position In any position

Timer Program Eight programs – Daily start and stop times for one week

Battery Backup Elapsed Time Indicator Lasts 31 days (when fully charged)
89,999 hours maximum

GENERAL

Connectors

- Screw terminal ALM, RST, and REC inputs
GND (Ground)
ALM, CLK, MODE, and CALL outputs
- BNC Video input/output
- RCA Audio input/output

Operating Temperature 41° to 104°F (5° to 40°C)

Relative Humidity Maximum 80%

Dimensions (JOG Dial Included) 3.7" H x 16.7" W x 12.3" D
(9.5 x 42.5 x 31.3 cm)

Unit Weight 9 lb (4.2 kg)

Shipping Weight 13 lb (5.9 kg) approximate

CERTIFICATIONS/RATINGS

- ◆ UL and cUL listed to Standard 2044
- ◆ cUL listed to Standard CSA 22.2 No. 1-94
- ◆ FCC, Class B

OPTIONAL ACCESSORIES

LB1000 Horizontal lock box for top and front loading VCRs. (See C911 spec)

LB3000, LB300PS Wall mount lock box for front loading VCR. (See C1907 spec)

RM2001, RM2001SD Rack mount for TLR Series VCRs. Fits standard 19-inch (48.26 cm) console. 3 RUs. (See C967 spec)

Tape Speed and Recording Time (T-160 Cassette)

Mode	Record Time (hours)	Speed (mm/s)	Recording Interval (s/field)	Recording Fields (per second)	Video Signal	Audio Signal	Tape Drive
8H (EP)	8	11.12	0.0167	60 (Real-time)	Continuous	Recordable	Continuous
L24H (EP)	24	3.71	0.050	20 (Real-time)	Time-lapse	Recordable	Continuous (slow)
L40H (EP)	40	2.22	0.083	12	Time-lapse	Recordable	Continuous (slow)

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