



TLR3168 Series Video Cassette Recorder

168-HOUR TIME-LAPSE VCR

Product Features

- 6/8 Hour Standard Recording
- 18/30/54/78/102/126/174 or 24/40/72/104/136/160/232 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
- Super Resolution Option
- Jog/Shuttle for Easy Forward or Reverse Field Playback
- Search Using Alarm Index, Time and Date, Skip, Counter Memory Stop
- On-Screen Programming



- Interfaces with Pelco's Genex® Multiplexers
- Automatic Head Cleaning
- Complete or Partial Front Panel Lock
- Battery Backup of Settings
- Elapsed Time Display
- Tape Use Counter
- Daylight Saving Time Setting

The **TLR3168** is a full-featured, versatile 168-hour time-lapse recorder designed for a wide variety of security applications. From simple, small retail applications to large industrial security systems, the TLR3168 has the features needed to satisfy almost any application.

The **TLR3168** can record for 6, 18, 30, 54, 78, 102, 126, or 174 hours on a T-120 tape cassette or 8, 24, 40, 72, 104, 136, 160, or 232 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 **TLR3168** 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.

The **TLR3168** 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 **TLR3168** also has an end-of-tape output that can activate another recorder. This feature allows multiple **TLR3168s** to be connected to increase the system's recording time.

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 **TLR3168** can be easily set up using programming menus displayed on the video monitor. The menus can be accessed at the press of a button.

Complete or 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 reused 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 **TLR3168** has a programmable clock pulse output for easy interfacing with Pelco's Genex Series multiplexers for automatic speed tracking.



TECHNICAL SPECIFICATIONS

MODEL

TLR3168 Time-lapse NTSC VCR with standard 6- and 8-hour recording modes and time-lapse recording modes for 18, 24, 30, 40, 54, 72, 78, 102, 104, 126, 136, 160, 174, or 232 hours (depending on type of tape).

ELECTRICAL/VIDEO/AUDIO

Power Source 100-230 VAC \pm 10%, 50/60 Hz (the included power cord is used for 120 VAC, 60 Hz)

Power Consumption Approximately 20 watts

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

Horizontal Resolution More than 400 lines (super resolution mode)
More than 240 lines (VHS mode)

Video Recording System Four rotary heads

Luminance Signal Frequency modulation recording

Color Signal Low frequency conversion, subcarrier 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 Approx. 120 seconds with T-120 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

Microphone Input 0.346 mV (rms), 600 ohms, mini-jack

Audio Output 388 mV (rms), 1K ohms, RCA plug

Audio Frequency Response 70 Hz to 7 kHz (6H mode)

Signal-to-Noise Ratio

- Video Better than 42 dB
- Audio Better than 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 (Month)-(Day)-(Year):(Hour):(Minute):(Second) (Alarm recording number)

Display Mode 1 (Month)-(Day)-(Year) (Day of week) (Alarm recording number) (Hour):(Minute):(Second) (Recording mode)

Display Mode 2 In any position

Display Position Eight programs – daily start and stop times for one week

Timer Program Lasts 31 days (when fully charged)

Battery Backup 89,999 hours maximum

Elapsed Timer Indicator

GENERAL

Connectors

- Screw Terminal ALM, RST, REC, GND, CLK, MODE, and CALL
- REMOTE Jack Jack for connecting the remote control unit (remote control not supplied)

RS-232C Interface DB9

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 12.4" D (9.5 x 42.5 x 31.4 cm)

Unit Weight 9 lb (4.2 kg)

Shipping Weight 13 lb (5.9 kg) approximate

CERTIFICATIONS/RATINGS/PATENTS

- UL Listed
- UL Listed to Canadian safety standards
- FCC, Class B

OPTIONAL ACCESSORIES

LB1000 Horizontal lock box for top and front loading VCRs.

LB3000, LB3000PS Wall mount lock box for front loading VCRs.

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

Tape Speed and Recording Time (T-160 Cassette)

T-120 Mode	T-160 Mode	Record Time (hours) (T-120/T-160)	Speed (mm/s)	Recording Interval (s/field)	Recording Fields (per second)	Video Signal	Audio Signal	Tape Drive
6H (EP)	8H (EP)	6/8	11.12	0.0167	60	Continuous	Recordable	Continuous
L18H (EP)	L24H (EP)	18/24	3.71	0.050	20	Time Lapse	Recordable	Continuous (slow)
L30(EP)	L40H (EP)	30/40	2.22	0.083	12	Time Lapse	Recordable	Continuous (slow)
48H (EP)	64H (EP)	54/72	--	0.150	6.7	Time Lapse	Not recorded	Time Lapse
72H (EP)	96H (EP)	78/104	--	0.217	4.6	Time Lapse	Not recorded	Time Lapse
96H (EP)	128H (EP)	102/136	--	0.284	3.5	Time Lapse	Not recorded	Time Lapse
120H (EP)	160H (EP)	126/160	--	0.350	2.8	Time Lapse	Not recorded	Time Lapse
168H (EP)	224H (EP)	174/232	--	0.484	2.1	Time Lapse	Not recorded	Time Lapse
0H (EP)	0H (EP)	--	--	--	--	Time Lapse	Not recorded	Time Lapse



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