

## ETM Series Digital Video Recorder Embedded DVR

ETM 60-04, ETM 60-09, ETM 60-16

The ETM version of Electronics Line series of Embedded DVRs all provide professional functionality and reliability at an economical price. ETM Embedded DVR converts analogue NTSC and PAL video to digital images and records them on a hard disk drive. Using a hard disk drive allows you to access recorded video almost instantaneously; There is no need to rewind tape. The technology also allows you to view recorded video while the DVR continues recording video.

High performance embedded DVR, the ETM Series from Electronics Line USA. This Linux based DVR has triplex operation including remote access from anywhere you have internet connectivity. This complete DVR offers high resolution digital storage and transmission. Recording modes include: Full time, Scheduled, Event and Motion. Models include 4, 9, & 16 channel versions all offering 60 FPS record capability and 1 channel of audio. This DVR is a complete system with integration of multiple (up to 99) DVRs connected and controlling PTZ, zoom and PIT cameras ( up to 255) all from remote joystick controllers.



### Features & Benefits

- **General**
  - Unique DVR ID (1~99)
  - Maximum of 4 internal Hard Disk Drives
  - Printer Connection
  - Loop Through Video Output
  - 4/9/16 alarm input/ 4 alarm output
  - Built in Alarm buzzer
  - NTSC/PAL Selection using DIP S/W
  - Operated by the joystick controller up to 99 different DVR units.
- **Display**
  - Real time Single Camera, Quad, PIP and Multi-Channel
  - Auto Sequence Switching
  - Freeze Frame
  - Instant Switching from Record Display to Playback Display
  - Front Display various mode using LED
- **PTZ**
  - Pan/Tilt, Zoom In/Zoom Out, Focus Near/Far Control
  - Quick Preset Set/Call
  - Speed Dome/Smart Scan - 16 Preset Positions
  - Zoom Enviro Camera - 6 Preset Positions
- **Networking**
  - Remote Monitoring System through Ethernet or External Modem
  - PTZ , Live Monitoring, Playback and Back Up available
- **Recording**
  - Simultaneous Recording or Playback
  - Easy, User Friendly Set Up Menu
  - Continuous recording while Archiving, Transmitting to remote site and during playback
  - One channel audio recording playback
  - Up to 4 different Recording Quality Grade
  - Full 30 frames per second recording speed
  - Up to 50 field per second in field mode
  - Manual & Scheduled recording
  - Event Recording by Motion Detection or External Alarm, Video Loss
  - 1000 Event List for external alarm or video loss
  - Pre-alarm recording time adjustable
  - Continuous Recording in Disk overwrite mode
- **Playback**
  - Playback by Time/Date,Event
  - Frame by Frame or Field by Field Replay
  - Easy Replay operation by Jog/shuttle dial or Arrow button
- **Archiving**
  - Digital Backup to USB Hard Disk
- **Search**
  - You can search the recorded images using the playback mode on the front panel and from the joystick controller. If you want to search from the remote site, there is a Remote Monitoring System (RMS)



Electronics Line USA

5637 Arapahoe Avenue Boulder, Colorado 80303

Tel . 303.938.1133 1.800.683.6835

Fax . 303.938.8062 Email . sales@el-usa.com

www.el-usa.com

## Technical Specifications

### Remote Management



RMS Manager



RMS View



RMS Search

This RMS program is the integrated software that can manage, monitor and search the DVR unit at the remote site.

### Video

Single Format	NTSC/PAL(Selectable) Composite : 4, 9, or 16 Looping In, 1Vp-p,
Video Input	Auto Termination, 75Ohms Composite : One, 1Vp-p, 750hms S-Video : One
Playback/Record Speed	Simples : 60ips(NTSC) , 50ips(PAL) Duplex : 30ips(NTSC) , 25ips(PAL)
Video Resolution	720×480(NTSC), 720×576(PAL)

### Video /Audio Inputs/Outputs

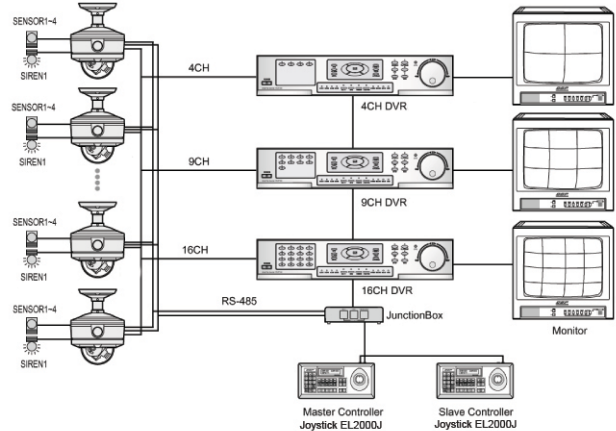
Video Input	Composite 4, 9, or 16 BNC
Video Loop	Composite 4, 9, or 16 BNC
Monitor Output	Composite :1 BNC, S-VHS : 1 Y/C
Audio Input	RCA Connector
Audio Output	RCA Connector
Alarms	Terminal Block
Ethernet	RJ-45
RS232S Serial Port	DB9(P)
RS485 Serial Port	2 RJ-11 or Four-connector terminal block (Remote Control or PTZ Control Selection)

### Mechanical Connectors

Alarm Input	4,9, or 16 TTL, NC/NO Programmable 4.3V threshold
Alarm Output	1TTL, 4.3V threshold
Network	10/100 Mbps Ethernet
Audio Input	RS-232C for external Modem
Audio Output	One(Line in or Mic.) One Line

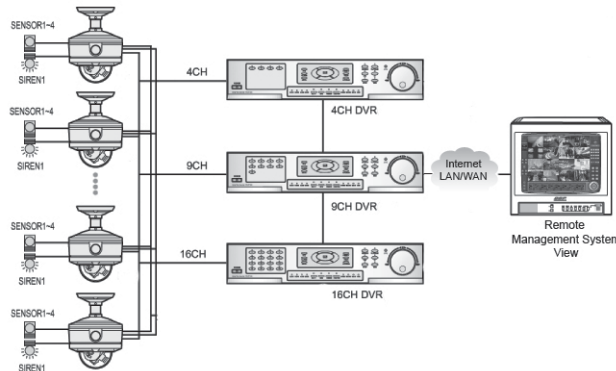
### Recording / Storage

Model	Camera Inputs	Images per Second	Storage
ETM - 60-04	4	30	120 GB
ETM - 60-09	9	30	120 GB
ETM - 60-16	16	30	120 GB
Primary Storage			EIDE Hard Disk Drive (up to 4)
Backup Storage			USB HDD USB CDRW



Up to 99 DVRs

### Multiple System Configurations



### Remote Management System Program Configuration

Operating Temperature	32° to 104°F (0° to 40°C)
Relative Humidity	90%
Dimensions	428 x 86 x 359 (mm)
Unit Weight	7.5 kg
Power	100 to 240 VA, 1/2A, 60/50 Hz

### General



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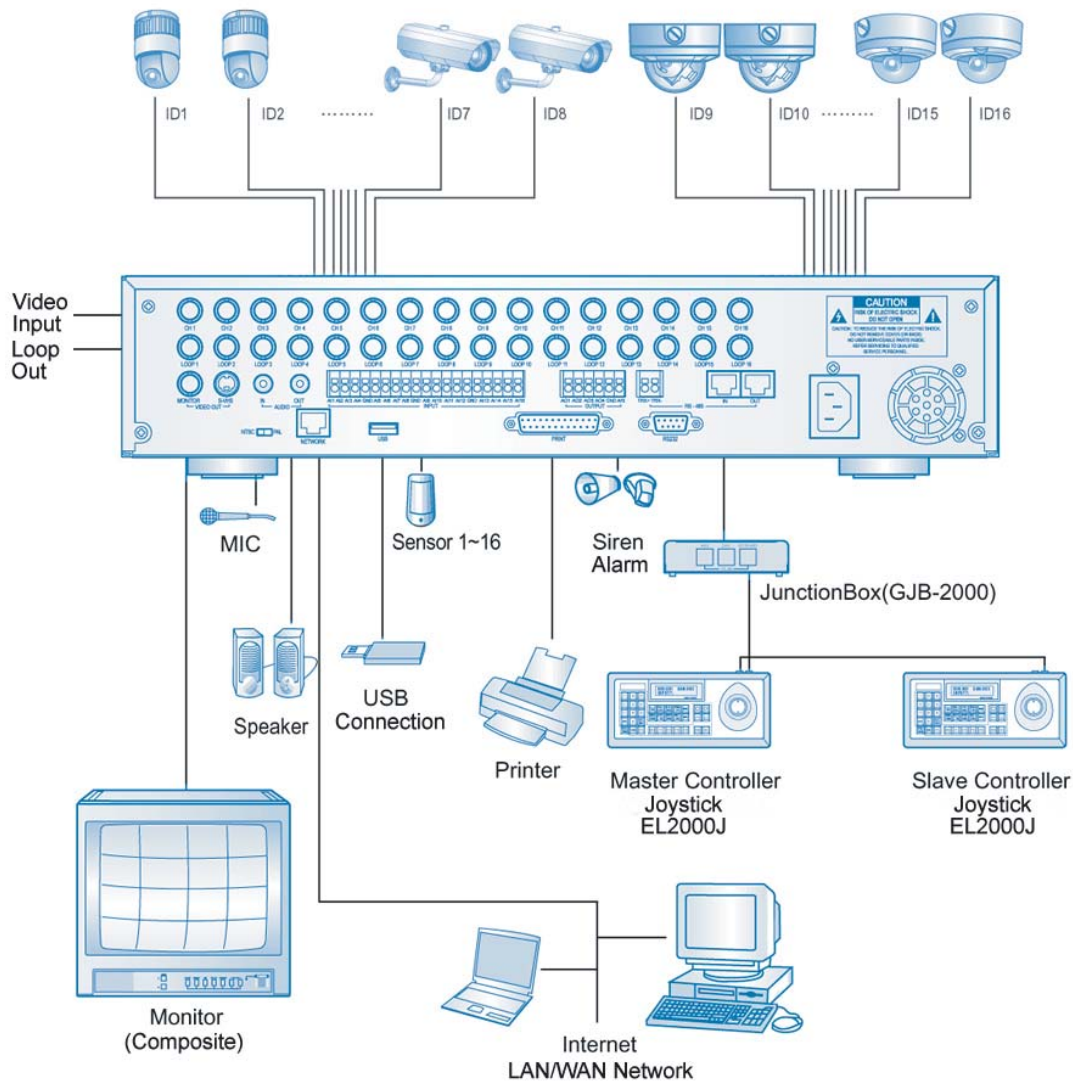
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## ETM DVR Configurations

The ETM DVR can accommodate 4, 9 or 16 cameras. Using two monitors, the user can view live multiscreen images as they are being recorded and spot cameras in a sequencing rotation. The unit can archive to a CDRW through the USB port. LAN/WAN connection is through an RJ45 connector. External alarm sensors can be connected via the terminal blocks. It can be remotely controlled and monitored by a PC or foreign host. Up to 99 ETM's and EL-2000J Joystick Controllers can be connected to the same network.



Consult Electronics Line USA for assistance in designing a system that is suitable for your application.



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