EUROPLEX TECHNOLOGIES

EIV – EUROPLEX INTEGRATED VIDEO DIGITAL RECORDING

- **1 to 16 camera stand-alone digital recording**

- **View archive remotely via ISDN / PSTN / or TCP/IP**

- **Multiple camera triggers includes:**
  Time Lapse
  Motion Detection
  Time Event
  Alarm trigger
  Europlex Log Event

- **Easy search & viewing/animation of events**

- **Easily upgradeable for increased storage**

- **Upgradeable to include remote monitoring/transmission using EIVT**

Introduction
With conventional CCTV systems much repetitive, valueless video information is needlessly stored. Subsequently it is difficult to retrieve specific video events. EIV allows CCTV users to intelligently capture, archive and retrieve specific video information.

System Components (standard)
- Industrial PC
- Special Video Capture Card
- 8 way video matrix (or 2 matrix boards for the 16 camera version)
- Each with event inputs and outputs
- ISDN for remote communications
- 10X100 Ethernet card as standard.
- Upgradeable hard drives for increased storage.
- Composite video output from SVGA card.

System Capacity
- Each PC may control up to 16 cameras
- One set of Keyboard/Mouse/Display may be used with up to 8 PCs using available Share-View units.
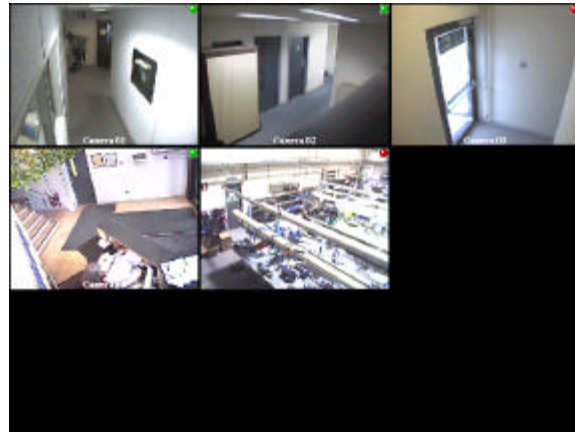
Event Triggers
- Multiple camera recording views may be configured for each individual camera input (combined max of 16)
- Each camera view/mode may have up to 4 triggers for storage purpose.

All actual camera inputs are forwarded to the EIV Controller. Images will be stored based on event triggers. The controller is configured to store a compressed JPEG or true bitmap video frame depending on trigger type. Additional data may be appended to the stored images. The original stored images cannot be manipulated due to a special encryption header.

Time Lapse – Stores the video images periodically. System can continuously store images from a camera with a programmed delay between each recorded frame.

Motion Detection - By comparing each video frame, motion events are identified. Changes may be based on the full camera image or on specific area(s) with full programmable sensitivity level control to eliminate small or spurious background changes.

Time Event – System may be set up to record within set times. E.g. 9AM to 5PM Monday to Friday.

Alarm Trigger - The EIV will interface via relay switches with other Building Management systems such as fire, security or environmental control. A series of 'pre-trigger' frames may also be stored. Trigger can also be assigned as a 'raid' event causing the video frames to be recorded as true bitmap images at up to 10 frames per second.

Europlex Log Events - The EIV may be configured to respond in a specific manner to log events received from Europlex Controllers. The actual triggering log event text can be super-imposed onto the stored frames.

Digital Storage - Storing video frames digitally provides great flexibility. These may be fixed local hard disk, removable hard disk, read/write CD-ROMs or a network file server. Individual storage locations may be specified for each camera's images.

When a store location becomes full the system automatically overwrites the oldest files first. This allows for a cyclic non-attendance system. Backup procedures may also be implemented automatically. The storage capacity will depend on size, number of triggers and selected compression rates. However, a typical storage example would be 50,000 images for every 1 Gigabyte of disk space (based on image size of 20K). This equates to almost 17 hours storage at a continuous rate of 1 frame per second. The storage capacity can be easily upgraded to meet changing user requirements.

Remote Access - As EIV uses a PC Windows platform, a local EIV system may be queried and the archive images viewed remotely using standard Windows networking connections over TCP/IP.

INTEGRATED SECURITY SOLUTIONS

EIV 8/16 CAMERA DIGITAL STORAGE DATA SHEET

	EIV-8	EIV-16	
Video Connectors	X 8	X 16	BNC PAL/NTSC Composite Video Inputs
	X 4	X 4	BNC PAL/NTSC Composite Video Outputs
Alarm Inputs	X 8	X 16	Dry contact (0 Volts) alarm inputs.
Relay Outputs	X 4	X 8	Software controlled relay contacts.

Video Input	NTSC/PAL Colour & Monochrome
Picture Resolution	QCIF (176 x 144 pixels), CIF (352 x 288 pixels) and HiRes (768 x 576 pixels)
Recording Speed	Up to 10 Frames/Sec For Concurrent Video Inputs (Uncompressed)
Monitoring	Monitoring as and when images are recorded - up to 10 Frames/Sec For Concurrent Video Inputs (while recording)
Compression	Standard JPEG Compression
Compression Ratio	20:1 to 100:1 for Archiving
PC	800 MHz (Minimum) 64 MB SDRAM Memory Floppy Drive 75 GB Hard Disk Video Capture Card with fast I^2C port. Internal ISDN card 10/100 Ethernet adapter Keyboard and Mouse Optional Internal/External Removable Hard Drives
PC Dimension	Typical Industrial Cabinet: 18 cm (H) x 45 cm (W) x 45 cm (D)
Multiplexer Cabinet	Camera Multiplexer Cabinet: 300mm(W) x 440mm(L) x 80 mm (D)(Rack mountable)
Software	• Windows 98 • EIV Digital Recording software featuring: … Motion Detection … Hard contact alarm input triggering … Scheduled time lapse triggering … RS 232 data input • EIV Archive Viewing software … Instant search per camera … Search using Date/Time criteria … Playback of recorded files as animation

Optional System Upgrades

Removable Hard Drive and Disk caddies for increased image storage.
… Industrial PC allows up to three caddies to be added.
… Removable 75GB Hard Drive capacities available

17" Monitor

Read/Write CD-ROM Drive

Sound Card

Epsom Colour Printer

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