

GALAXY

Digital Video Recorder

ernitec



Description

The new Ernitec GALAXY digital video recorder presents the latest technology within the digital age of video recording. The system makes it possible to record video from up to 16 cameras to the built-in hard disc.

Depending on the model, the system can store recordings of high-resolution video, which is recorded continuously over a time period of 1 day to more than 3 months. The digital system ensures that the recorded video is safely stored and that it can be retrieved quickly whenever needed.

The system provides the possibility of saving suspicious events to the hard disc and with the right set-up, these cannot be overwritten. Furthermore the operator can easily copy suspicious events to DVD for long term storage.

With an easy to use search function, video pictures or video clips are easily retrieved and replayed on the monitor or via a PC.

The unit provides full-screen recording. This ensures that all details from the camera are fully recorded.

The hardware and software of the unit is specially designed and optimised for digital video recording. The system is not a PC based system.

In case of power failure, the system reboots automatically right away and returns to full operation.

Storage

A security system is operating 24 hours a day and for several years. In order to ensure stable storage of video, we have chosen the most reliable version of a hard disc, the SCSI version. This choice ensures that

the reliability of the unit is extended dramatically, compared to conventional hard disc units used in most PCs.

Split Screen Function

The unit also includes the possibility of producing split screen images similar to the Ernitec E-MUX multiplexer range. This useful feature enables the operator to see all connected cameras on the monitor at the same time.

Record

The unit is very easy to install and operate. Simply connect the cameras and press the RECORD button and the unit will start recording.

Recording can be done to the hard disk or to DVD or both.

All recordings done on DVD can be replayed on a PC with a DVD drive and GALAXY PC replay software.

Playback

Easy playback of video backwards, forwards and at different speed. Freeze, zoom and playback step by step.

Duplex Display

Replay can take place without interrupting recording.

Quick Search

Fast image retrieval is one of the biggest advantages compared to a tape based system. The GALAXY can search on date and time, alarm activity, movement detection and data field content.

Alarm Events

On receipt of an external alarm, all or individual cameras can record in real time or in a chosen time lapse rate. Subsequent recordings will not overwrite video recorded during alarm events. Alarm events can also be copied to a DVD.

Copying and Evidence

Video data is encrypted and can only be played back on a GALAXY system. Alarm events can be copied automatically to DVD.

A typical example of this would be in a bank. In the event of a raid the alarm events will be recorded and copied to DVD, along with a predetermined section of recording prior to the raid. The DVD can be handed over to the police or the entire hard disk can be removed if required. Digital watermark for authentication.

Movement Detection

Video movement detection masks can be set on each camera input. Images with movement can be recorded more often than those without. On

playback you can quickly search for images with movement.

Video Matrix Integration

The GALAXY DVR can be interfaced to the Ernitec range of video matrix systems, System 500M and 1000M. When integrating, the control of the DVR is done from the matrix keyboard. Another benefit is that previously installed systems can be upgraded to include digital video storage, replacing the old tape-recorder and multiplexer.

Connection between the matrix and the DVR is done via a converter box and requires a free RS232 port on the matrix.

Variations

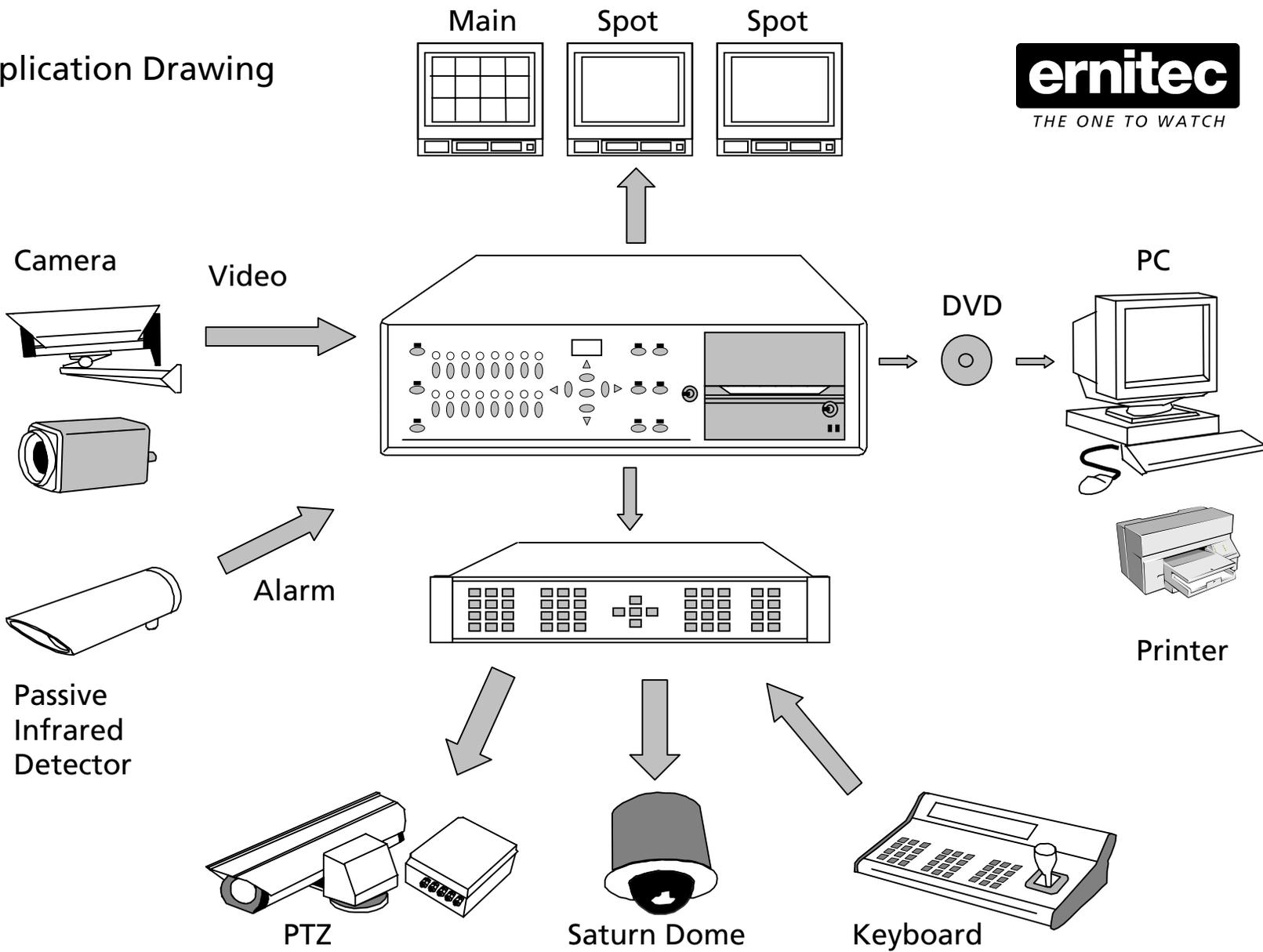
To increase the video storage capacity additional disks can be added.

An RS232 interface allows remote control from a PC or a remote keyboard.

Models

GALAXY - DIGITAL VIDEO RECORDER SYSTEM	
NAME	DESCRIPTION
GALAXY DX7DAY	Digital Video Recorder designed for professional use with 16 video inputs. Fitted with 36GB SCSI hard disc. Includes main monitor with multiscreen display and two spot monitors for normal viewing. Includes movement detection, alarm inputs and timer programs. Hard disc drive is removable for upgrade at a later time. Remote control by RS232 input. <i>This unit should be sufficient for 7 days recording in many applications if set up as follows: Background recording rate set for 10 seconds/camera and 24hr recording rate when movement is present or in case of alarm.</i>
GALAXY DX7DAY-DVD	Same as GALAXY DX7DAY, but with a DVD RAM drive fitted. The removable DVD drive has a capacity of 4.7GB, large enough to copy video clips from the hard drive.
GALAXY DX14DAY	GALAXY with 72GB SCSI Hard Disc. About 2 weeks of recording if set-up as above.
GALAXY DX14DAY-DVD	GALAXY with 72GB SCSI Hard Disc and 4.7GB DVD RAM drive. About 2 weeks of recording if set-up as above.
GALAXY DX31DAY	GALAXY with 180GB SCSI Hard Disc. About 1 month recording if set-up as above.
GALAXY DX31DAY-DVD	GALAXY with 180GB SCSI Hard Disc and 4.7GB DVD RAM drive. About 1 month recording if set-up as above.
GALAXY DX62DAY	GALAXY with 360GB SCSI Hard Disc. About 2 months recording if set-up as above.
GALAXY DX62DAY-DVD	GALAXY with 360GB SCSI Hard Disc and 4.7GB DVD RAM drive. About 2 months recording if set-up as above.
GALAXY DX93DAY	GALAXY with 540GB SCSI Hard Disc. About 3 months recording if set-up as above.
GALAXY DX93DAY-DVD	GALAXY with 540GB SCSI Hard Disc and 4.7GB DVD RAM drive. About 3 months recording if set-up as above.
DVD DISC	
DVD DISC 2.6GB	2.6GB DVD RAM disc. It is used to allow the operator to copy important events, such as pictures or video clips and store this information somewhere else. The disc is rewritable.
DVD DISC 4.7GB	4.7GB DVD RAM disc. It is used to allow the operator to copy important events, such as pictures or video clips and store this information somewhere else. The disc is rewritable.
GALAXY PC SOFTWARE	
PC Replay	This software allows images recorded by the GALAXY to be replayed on a PC. The system requires the 2.6 GB DVD discs. All the search operations, time, movement and alarms can be repeated on the PC. Entire video sequences can be stored on the PC to save DVD discs if required. Images can be e-mailed as bit maps. They can also be printed out if a suitable colour printer is attached. A PC running windows 95/98/2000 with at least 64MB of memory is required.
PC back-up	Software to download GALAXY menu setting from a PC / LAPTOP running windows.
DVD DRIVE FOR PC	
DVD Drive	4.7GB DVD RAM drive for use in PC. This drive is used to decode the DVD disc recorded on the GALAXY. The drive works on a SCSI bus and requires a SCSI card fitted in the PC, if one is not fitted already.
INTERFACE BOX GALAXY/SYSTEM 1000M/500M	
GALAXY DXERN01-converter	The GALAXY DVR can be controlled from an 1503M/1505M System Keyboard. This function requires the use of an GALAXY DXERN01-converter, fitted between the video matrix and the GALAXY DVR. One converter unit can control up to 12 pcs of GALAXY units.

Application Drawing



Specifications

Video		Typical Recording Capacity	
Video Inputs	16 Colour/BW		
Connector type	BNC	DVD or Hard Disk (GB)	Approx. Recording time (days)
Signal format	PAL	4.7	1*
Video input requirements	1.0 Vpp video, 75 ohm	36	7*
Camera video input	75 ohm or hi-z, switch for each input	72	14*
Video outputs	3 (1 Main and 2 Spot monitors)	144	21*
Video output characteristics	1 Vpp, 75 ohm	180	31*
Alarm Inputs		360	60*
Connector type	25 pole female Sub-D	540	90*
Number of inputs	16	* The mentioned recording time is based on a set-up with: Recording rate, 10 seconds. Movement triggered. Alarm recording rate set to 24 Hr. In other words, only record when movement is present, apart from a slow background record rate.	
Alarm input characteristics	Contact closure		
Alarm Outputs			
Connector type	25 pole female Sub-D (same connector as alarm input)		
Number of outputs	2		
Alarm output characteristics	Relay N/O or N/C		
Recording speed	25 frames per second		
Time-lapse rate	3, 12, 24, 48, 72, 96, ++ hours		
Clock	Internal		
Hard Disc	36GB SCSI to 4 TB		
RS232	2 x Bi-directional		
Resolution	500 lines		
General Specifications			
Power supply	220-240 VAC or 110 VAC		
Power consumption	< 75 W		
Temperature range	0°C to +40°C		
Humidity	10 to 80% non condensing		
Dimensions (H x W x D)	110 x 443 x 426 mm		
Mounting options	Tabletop as standard. 19" rack mount kit included.		
Weight	16.00 kg		
Security System	EN 50130-4		
EMC / EMI	EN 50081-1 EN 55022 class B EN 50082-1 IEC801-2		
Safety	EN 60950		



ernitec
THE ONE TO WATCH

Denmark Head Office

Ernitec A/S
Hørkær 24
2730 Herlev
Denmark
Phone: +45 44 50 33 00
Fax: +45 44 50 33 33
ernitec@ernitec.dk
www.ernitec.com

French Branch Office

Ernitec France
Parc Péreire
95 rue Péreire
Bat. D
78100 Saint Germain en Laye
France
Phone: 01 39 21 12 00
Fax: 01 39 21 12 95
ernitec@ernitec.fr
www.ernitec.com

German Branch Office

Ernitec GmbH
Stormarnring 28
22145 Stapelfeld
Germany
Phone: 040 67 56 25 0
Fax: 040 67 56 25 25
ernitec@aol.com
www.ernitec.com

UK Branch Office

Ernitec UK
Gerrard House
Worthing Road
East Preston
West Sussex BN16 1AW
England
Phone: 01903 77 27 27
Fax: 01903 77 27 07
sally@ernitec-uk.co.uk
www.ernitec.com

Middle East Office

Ernitec ME
Hamra - Makdesi Street
Younis Center - 5th floor
Office no. 503
P.O.Box: 113/5721
Beirut
Lebanon
Phone: +961 1 751 796
Fax: +961 1 751 795
malek_kabrit@ernitecme.com
www.ernitecme.com