EDNS2000
Digital Video Recorder

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The EDNS2000 provides very high quality video recording and synchronised voice recording.

With 4/8/16 camera inputs and 3 monitor outputs it can be installed in most applications requiring Digital video recording. It is perfect as a direct replacement in installations with Multiplexer and Timelaps tape recorders.

Existing cameras, Monitors and cables can be re-used. Simply install the new DVR, connect the video cables and power-up the unit. You have now upgraded your installation to a complete high quality digital video recording system. There is no longer any need to change tapes every day.

The DVR presents the latest technology within embedded DVR solutions, using Linux software as a platform, providing stable and long time operation.

The high video quality makes it a very suitable high security application within the industry, military, prisons, banks, or wherever the need for high definition and superior image quality is required for further investigation.

By use of MPEG4 hardware compression, it is possible to record up to 100 images per second and with resolutions from 352x288 up to 720x576.

We provide storage solutions for days or month, via built hard disc. The digital system ensures that the recorded video is safely stored and that it can be retrieved quickly whenever needed.

The unit displays live and recorded video information on a standard CCTV monitor or VGA Monitor. An extra spot Monitor is available for display of all connected cameras in a sequence.

Easy Operation via Front Panel

The various buttons on the front panel provide easy control of most DVR operations, such as camera selection, screen mode selection, search and pan-tilt-zoom control.

Various LED indicators show the status of power, network, sensor and recording.

Remote control

All DVRs include a remote control unit as standard. By using IR technology it is possible to operate all the DVR functions via the remote control unit. It is also possible to control several DVR units from one single remote.

Jog wheel & replay buttons

The DVR includes a super smart JOG wheel for easy replay of interesting scenes, normally only seen in top range of Broadcast equipment. With the inner JOG you can search back and forth, picture for picture. With the outer wheel you can replay recordings with up to 32x the recorded speed.

Simple replay buttons are placed below the JOG wheel for start, stop, forward, backward etc.

Activity Detection
More efficient recording can be obtained by the use of activity detection. For each camera a special mask can be set-up for the desired area of motion to be recorded. Using activity detection requires less hard disk space, without compromising the image recording.

Smart Search Functions
Search the recorded images by date, time and camera sensor event.

CD-RW for File Back-up
The system provides the possibility of copying suspicious events to an internal CD-RW for long-term storage.

Alarm Recording
It is possible to connect 4 alarm sensors. When a sensor is selected for a camera, the connected camera will immediately capture any motion detected by the

sensor. There are 2 control outputs. Each output can be automatically triggered by any alarm.

Network Solutions
The DVR may be used in local or wide area networks for remote surveillance. Any number of units may be connected to a 10/100BaseT network Hub, providing multiple connectivity to multiple recorders, vast remote locations and multi-channels all from multiple review stations, installed with RemoteAgent PC software.

Auto-Rebooting
After the power supply is recovered from the power failure, the DVR automatically reboots and continues recording normally.

Easier Control at the On-Site & Remote-Site
The DVR supports on-site and remote control of cameras equipped with PTZ controller through RS485 using RemoteAgent networking software.

Sound Recording
The DVR has a built-in 4 channel sound card for the recording of synchronised audio.

Proprietary Compression Technology
Proprietary Enhanced MPEG 4 video compression provides the industry's most powerful compression of video images for fast processing speed and high image resolution.

High compression efficiency achieved allows fast network transmission of recorded image files over a variety of network settings for live viewing, remote playback or remote file copy.

Prevents Alteration of Images by Encryption and Password
Alteration and forgery of images is impossible. Users can only view images in the Viewer program, because of the powerful encryption.
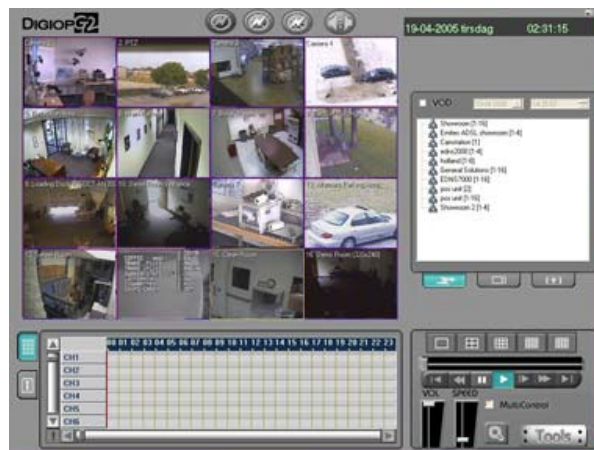
Image files recorded with Ernitec DVR can be provided as legal and forensic evidence.

Remote Live View, Playback, File Copy
The EDNS2000 DVR comes with very advanced network software as standard. The software is named RemoteAgent and with this software it is possible to have remote live view, playback and file copy. It is even possible to receive video from 16 remote sites simultaneously.

The software package provides features like:
-Live Monitoring from Remote DVR
-V.O.D (Playback of Recorded Data of Remote DVR)
-Image File Copy from Remote DVR for Archival
-Remote Control of P/T/Z for connected DVR
-Remote Sensor Alarm (Abnormal Shutdown)
- Technical alarms
- Screen Display: 1,4,9,16 ch
- RemoteAgent PC software – type: EDNS 16NET

Order Codes

Basic models:
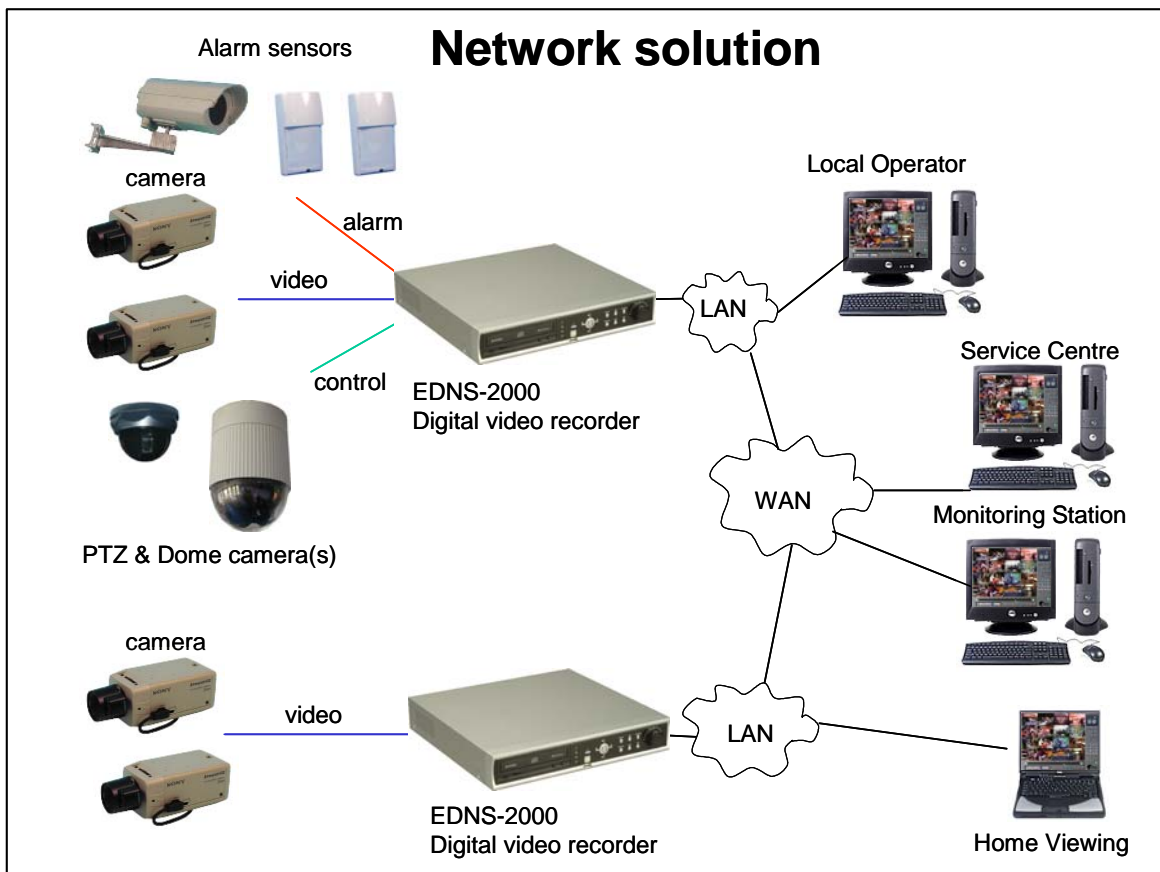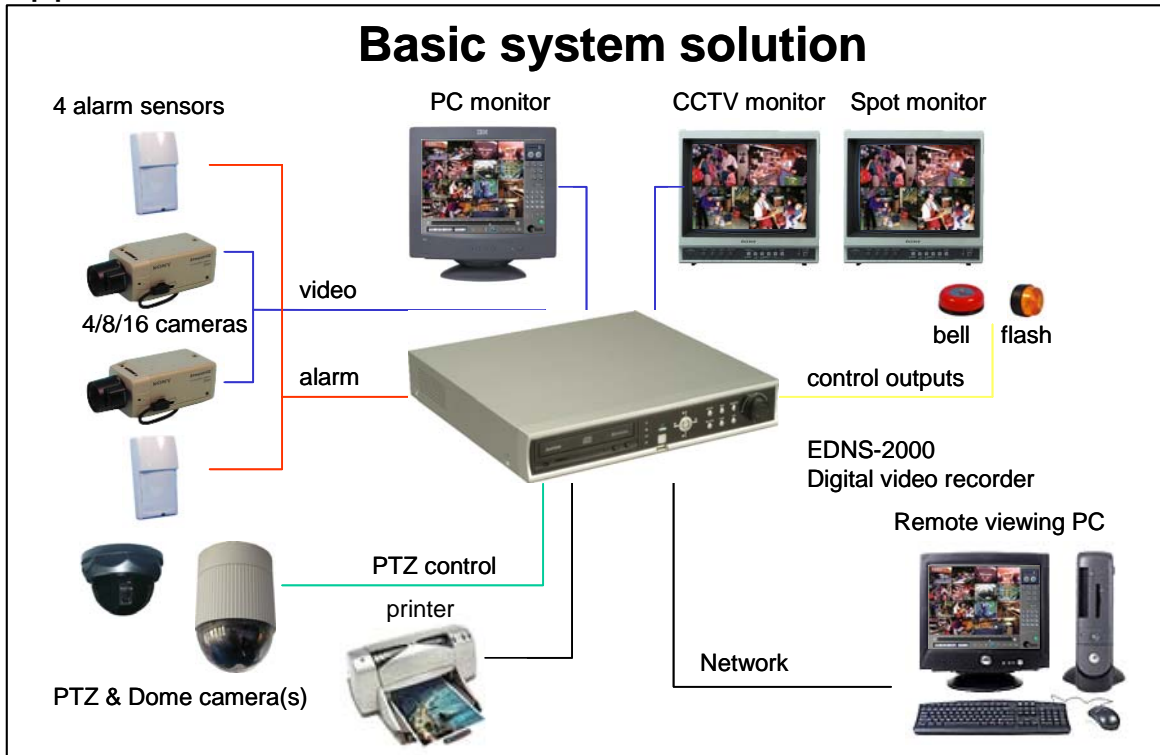EDNS2000-4EPC
EDNS2000-8EPC
EDNS2000-16EPC

The hard disc capacity changes regularly, so please contact your Ernitec sales person for the latest sizes available.

Accessories:
EDNSPTZ: RS232/RS485 converter

Applications

Basic system solution

4 alarm sensors

PC monitor   CCTV monitor   Spot monitor

4/8/16 cameras

video

alarm

bell   flash

control outputs

EDNS-2000
Digital video recorder

PTZ control

printer

Remote viewing PC

Network

PTZ & Dome camera(s)

Network solution

Alarm sensors

camera

alarm

video

control

EDNS-2000
Digital video recorder

LAN

Local Operator

PTZ & Dome camera(s)

WAN

Service Centre

Monitoring Station

camera

video

EDNS-2000
Digital video recorder

LAN

Home Viewing

Specifications

H/W	CPU	EDNS2000-4EPC	EDNS2000-8EPC	EDNS2000-16EPC
	CPU	Geode x86 266MHz		
	RAM	128MB		
	HDD	Max. 3HDD (2HDD + CD-RW)		
OS		Embedded Linux		
Video Input		4ch	8ch	16ch
Loop-OUT		4ch	None	
Video Mode		PAL / NTSC Selectable		
Display Speed (PAL/ NTSC)		100/120fps	200/240fps	400/480fps
Screen Modes for Live Display		4/1/PIP	9/4/1/PIP	16/10/9/4/1/PIP
Recording speed (PAL/ NTSC)	352x288/240 CIF	100/120fps (with Playback: 50/60fps)		
	704x288/240 4CIF	50/60fps (with Playback: 25/30fps)		
	720x576/480 D1	25/30fps (with Playback: 12.5/15fps)		
Monitor output		Main monitor output (Composite & S-Video, VGA (50Hz refresh cycle)) / Spot output (Composite)		
Recording Resolution		PAL: 352x288, 704x288, 720x576 NTSC: 352x240, 704x240, 704x480		
Byte Size per Image (Standard Quality)		3~5Kbyte @ PAL: 352x288, (NTSC: 352x240) 5~10Kbyte @ PAL: 704x288 (NTSC: 704x240) 10~16Kbyte @ PAL: 720x576 (NTSC: 704x480)		
Compression method		MPEG4		
Recording Modes		Continuous, Motion, Alarm, Pre-alarm		
Recording schedule		Yes, schedule per camera		
Motion Detection		Yes, per camera		
Audio Input/ Output		4 input / 1 output (ADPCM)		
Sensor/ Alarm		4 Dry Contact Input / 2 Relay Output		
P/T/Z control and port		PAN/TILT/ZOOM/FOCUS/IRIS, RS-485 port		
LAN		10/100 Ethernet		
Transmission Speed and No. of Connection		Same as Recording Speed for each Channel Max 16 ch Connection (16 video transmissions at the same time)		
Remote Transmission		Multi-to-Multi connection, Multi-channel transmission Live Viewing, Remote Playback and File Backup at the same time (Triplex-on-Remote)		
Remote Control		Remote PAN Tilt ZOOM/FOCUS /IRIS control		
Remote management		Remote Software Upgrade & Remote Software Upgrade		
CD-RW		Internal CD-RW		
External Backup Device		Support (Front USB Ports)		
System Operation		Button on Front panel / IR Remote Controller / Jog / Shuttle		
Storage Temperature and Humidity		-20~60 degrees Celsius / 20~95%RH		
Operating Temperature and Humidity		5~40 degrees Celsius / 20~80%RH		
Power		Single Phase AC115~230V, 50/60Hz (Select Switch)		
Dimension and Weight		380(W) x 66(H) x 370(D) mm, 6Kg		
Remote S/W		RemoteAgent S/W (16ch)		
Standard Authentication		FCC, CULUS, CE (EMC/LVD) – CLASS A		
* The system specification can be modified without notification.		Standard spec. based on Oct, 20th. 2004		

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THE ONE TO WATCH