

Introducing the 6 Terabyte E-3 Professional Digital Video Recorder



High Definition Images and All the Storage You could Want

The E-3 professional VADR was designed to provide the reliability, expandability and functionality you need for your security operations. Whether you are installing a new system or upgrading an existing one, The E-3 professional VADR is the perfect choice for your organization. The E-3 professional VADR records in high definition CIF at 30 frames per second on every camera channel using H.264 compression technology and provides up to 6 terabytes of internal storage, reducing greatly the need for constant archiving.

Lighting panel features:

- Top row green light identifies operating cameras
- Top row unlit light identifies non-working cameras
- Top row red light identifies camera recording
- Bottom row red light identifies alarms

As the new standard in DVR security surveillance systems, the E-3 professional VADR can be configured on the unit itself or using a PC, it also uses the latest available technology; including new generation digital signal processing chips (DSP) to lower power consumption, an embedded MPU processor as the main processor and a Real-Time Operating System (RTOS) to make the E-3, one of the most reliable products in the industry.

Affordable State-of-The-Art Surveillance Technology

The E-3 model offers all the same functions and advanced features as the E-1, but uses CIF H.264 independent hardware compression on all video channels. By using CIF H.264 compression in our E-3 model, we can make the latest security surveillance technology available and affordable to large and small businesses alike.

KEY FUNCTIONS

Monitoring

- Single or multiple screen real-time view
- Display switching
- On Screen Display (OSD) menu
- Image sheltering processing
- Video loss processing function
- Multiple level, multiple zone motion detection and processing
- Compression function
- High Resolution H.264 compression algorithm
- CIF independent hardware compression on all Video Channels
- Video and audio synchronization in playback
- Bi-directional audio talk
- Real-time audio encoding and decoding

Network

- Supports TCP/IP, DHCP, UDP, RTP, PPPoE, PPP and more protocols
- Supports DDN, SDH, PSDN, ISDN, ADSL and more
- Remote visit
- Bi-directional audio talk or unidirectional audio broadcasting through a network

Alarm

- Image sheltering alarm processing
- Local video signal level alarm interoperation
- Network alarm signals upload

Recording

- Multiple recording modes including: manual, time, alarm, motion detection and motion detection alarm
- Water-Mark technology
- Multiple playback modes including: fast play, slow play, pause and frame by frame

Storage

- One unit supports up to 6 terabytes internally
- Hard disks plug in and use no disk fragmentation
- Non-operation hard disk set as sleep mode to extend the hard disk usage and greatly reduce internal heating of the unit
- Supports network storage
- Backup using USB flash disk, USB hard disk and USB CDRW

Hardware Interface

- One to sixteen (1-16) video input
- One (1) AV output, one (1) VGA output
- One to sixteen (1-16) audio input
- One (1) audio output
- One (1) line in (for voice talk)
- One (1) USB interface
- One (1) RS-232 output
- One (1) RS-485 output
- One (1) RJ45 keyboard interface
- One (1) RJ45 network daisy chain interface
- One (1) RJ45 Ethernet interface
- Four (4) /Eight (8) /Sixteen (16) alarm input
- Two (2) /Four (4) alarm output

Technical Specifications

Video compression	H.264
Video input	1-16 channel (NTSC or PAL auto detection), BNC (level: 1,0Vp-p, impedance: 75 Ohms)
Video output	1 channel (NTSC, PAL optional), BNC (linear electric level: 1.0Vp-p, impedance: 75 Ohms/), able to switch, supporting 1/4/9/16 screen, 1 channel VGA output
Frame rate	PAL: 1-25 fps adjustable NTSC: 1-30 fps (self-definition)
Video stream	Optional single or multiple video stream (self definition)
Bit rate	16Kbps - 8Mbps adjustable (self definition)
Preview resolution	NTSC: 704*480; PAL: 704*576
Playback resolution	NTSC: 352*240; PAL: 352*288
Audio compression	OggVorbis
Audio input	1-16 channel, RCA (linear electric level, 2Vp-p, impedance: 1k Ohm)
Audio output	1 channel, RCV (linear electric level, impedance: 600 Ohms), able to switch
Compression rate	16Kbps
Voice audio input	1 channel, RCA (linear electric level, impedance: 1k Ohm)
Internal storage	Support up to 8 SATA/II hard disks
Transmission protocol	TCP/IP, UDP, PPPoE, RTP and more
Operation mode	Faceplate button operation or remote control
Communication interface	1 RJ45 10M/100M/1000M adaptive, Ethernet interface, 1 RS232 interface and 1 RS485 interface
Alarm input	4/8/16 alarm/relay in
Alarm output	2/4 relay or dry contact closure out
Power	90-135 VAC or 180-265 VAC, 47-63 Hz
Power consumption	20W - 42W (not including hard disk)
Operating temperature	-10°C ~ +55°C
Relative humidity	10% ~ 90%
Size	Standard 3U, 440mm (L)x132mm (H)x460mm (D) Rack mount



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