

16 Channel Digital Video Recorder

Model: TM8616



Operation system	RTOS (pSOS)
Operation GUI	OSD Menu
Multitask	Triplex (Simultaneously Record, playback and transfer)
Power supply	Standard ATX power(AC:220V±10%, 50±1%Hz) optional (AC: 110V±10%, 60Hz±1% Hz)
Work temperature	0-55℃
Work humidity	< 80%RH
Power consumption	50W (HDD excluded)
Case Dimension	435(L)*91(W)*490(D) MM
Packing size	560(L)*205(W)*610(D) MM
Packing Weight	13KG(HDD excluded)
Video	Compression format: H.264 (MPEG4 PART 10) Display frame speed: 400F/S (PAL) 480F/S (NTSC) Record frame speed: 400F/S (PAL) 480F/S (NTSC) (adjustable) Resolution: 720×576, 360×288 Input interface:16CH BNC Vp-p=1.0V/75Ω Output interface: 1CH Analog RGB,and 1CH VGA Output bit rate:32kbps — 1152kbps/ch
Audio	Compression format: G.722 Input interface: 16CH RCA Output interface: 1CH RCA Output bit rate: 8Kbps
Alarm	8CH input / 4CHch output
Search mode	Motion detection, manual, time, sensor
Backup	Removable HDD, Build-in IDE interface, USB port, Client software
Serial Port	RS485 to connect P/T/Z Controller
Network interface	RJ-45, 10M/100M Ethernet interface
HDD interface	IDE interface, support max 8 HDD, any capacity is supported
Network transmission	PSTN, ISDN, ADSL, LAN, MAN, WAN, TCP/IP
Clock	Built-in CMOS Clock, perpetual calendar

FEATURES

- 1 High stability----absolute Hardware compression and the professional embedded operating system RTOS, completely divorced from PC, can avoid virus infraction.
- 2 Top advanced arithmetic---- H.264 (MPEG4 Part 10) video compression. It's better than MJPEG, MPEG1, MPEG2 and wavelet in HDD occupation(only 1/8). Occupies less HDD space and more convenient for Network transmission.
- 3 Adopt G.722 compression format for audio
- 4 Each channel compresses the signal at real-time individually, the parameters of resolution, frame, and record time can be set up separately.
- 5 IDE interfaces support the HDD of any capacity, including the capacity more than 137G.
- 6 Provide the customers with the powerful client SDK, enables the user implement the second development based on their own requirements and build the remote surveillance and management system.
- 7 At accidental condition, watchdog can restart the system less than 10 seconds to shorten the non-work time. In case the power is off improperly, system will restart automatically once the power is on again, suitable for the uncared working situation.
- 8 Built-in alarm interfaces of output and input (the interface number is different according to different DVR. (Normally, 4/2 and 8/4)
- 9 An Ethernet interface, support PSTN, ISDN, ADSL, LAN and WAN. Through the powerful client software, remote surveillance can be full-filled easily and support upgrading through serial port and Ethernet interface.
- 10 Support PAL and NTSC systems, the Max real-time resolution can reach 704*576(320-550 TV line). Record resolution is 352*288(220-320 TV line)
Friendly GUI makes the operation simple and easy.
- 11 Support the alarm of video-lost, motion detection and sensor, support the pre-record and image shield, ensuring to get the accurate evidence and protect the privacy right of legal users.
- 12 Support searching by each frame, FFW, FBW and etc. Search according to time is more convenient.
- 13 Support the local backup and network backup. Data encryption techniques and 3-grade password solution can ensure the system can not be operated or data juggled by illegal users.
- 14 File management adopts the special structure of chain-table and fragment will not occur.
- 15 Powerful HDD error correcting ability enables DVR continue working while fault occurs. With the function of dormancy, the HDD working time is extended and work in rotary.
- 16 Extremely convenient to maintain the HDD as the detailed information provide the FDISK, format, the damage situation etc.
- 17 Detailed log information, including the Info. Of operation, alarm and network of the system.
- 18 Support the superposition of OSD characters, can display the date, time and port title of each channel. Title content support Max 8 characters.

FUNCTIONS

Video Function:

Professional 16ch Hardware H.264 (MPEG4 Part10) DVR.
Small file size from 32Kbit/s ~1152Kbit/s (Namely 0.16~5.76Kbyte/f).

Max. 480fps Display and 480fps Record

Record Function:

Multiplex operation, each channel can also simultaneously playback, preview, search, setup and network transmit while recording.

Multi-record manners: manual record, time record, alarm record and motion detection record.

Can adjust the frame rate from 1 to 30 frame(1-25PAL, 1-30NTSC)

Storage Function:

Built-in 1-8 HDD

Continuously storing with FAT32 format with no-disk-fraction.

Storing new files with overlay circularly after hard disk is full. Support HDD sleeps function. These hard disks can work one by one in order to reduce the temperature in the casing.

Various backup via USB, removable HDD and network.

Play Function:

Triplex operation, simultaneously record, playback and preview.

Quick playback: segmental play and period play.

Playing mode: 4X, 8X, 24X speed playing, pause, 1/2X, 1/4X, 1/8X slow playing, single-frame playing.

Search by time, event and channel.

Alarm Function:

8 Channel alarm input independently, make a defense and canceling it timely, which the alarm input is triggered by the outer alarm switching value.

Support the alarm of video-lost, sensor, alarm-trigger, short circuit, etc in each channel, ensuring to alarm in time when someone deliberately break it.

Support motion detection alarm and record in order to save the HDD capacity effectively; single image is divided into 11x9 blocks; multi-grade flexibility adjustable, conveniently and real no-person watching.

Support pre-alarm and alarm record delay (59 minutes are selectable) to assure the integrity of alarm record information that is more integrated for evidence

The screen of alarm record can be automatically popped up and transmit the video & information to the control center.