

4 Channel Digital Video Recorder

Model: TM8304V



Operation system	RTOS (pSOS)
Power supply	Standard ATX power(AC:220V \pm 10% or 110V \pm 10%, 50 \pm 1Hz)
Work temperature	0-55 $^{\circ}$ C
Work humidity	< 80%RH
Power consume	250W
Case Dimension	435(L)*91(W)*490(D) MM
Packing size	560(L)*205(W)*610(D) MM
Weight	12.5KG(HDD excluded)
Video	Compression format: H.264(MPEG4 PART 10) Display frame speed: 25FPS/CH PAL or 30FPS/CH NTSC Record frame speed: 25FPS/CH PAL or 30FPS/CH NTSC Resolution: 704 \times 576, 352 \times 288 Input interface:4CH BNC Vp-p=1.0V/75 Ω Output interface: 1CH BNC, 1CH VGA Output bit rate:128kbps — 1152kbps/ch
Audio	Compression format: G.722 Input interface: 4CH RCA Output interface: 1CH RCA Output bit rate: 3Kbps
Alarm	8CH input / 4CHch output
Search mode	YY / MM / DD, HH / MM / SS
Bus controller	RS485
HDD interface	IDE interface, support max 4 HDD
Network	10/100M Ethernet, LAN, MAN. TCP/IP, ADSL
P/T/Z	Support
System upgrade interface	Serial port (RS232) ,10/100M Ethernet interface
MTBF	25000 hours

FEATURES

- 1 Adopt the professional embedded operating system RTOS, completely divorced from PC, can avoid virus infraction. Specially designed for the surveillance purpose with the features of full real-time and high stability.
- 2 Adopt the latest H.264 compression technology, HDD Occupation is far less than MPEG1 and MPEG2. 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.
- 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 LAN and MAN. 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, English and Chinese version is optioned
- 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

Storage Function:

Storing with FAT32 format, and continuously, no-disk-fraction.
Storing new files with circularly overlay manner after HDD capacity is full; in turn, these HDDs can work and sleep;
Can store and backup to other devices via USB.

Record Function:

Multiplexing, each channel can also playback, preview, retrieve, setup, network it the same time when it is recording full real-time.
Multi-record manners: manual record, timer record, alarm linkage record, motion detect record etc.
Can adjust the record parameters frame by frame(1-25PAL, 1-30NTSC)

Play Function:

Can playback and monitor at the same time in the same screen, can work with multiplex manner (record, monitor, playback).
Quick playing: segmently play, periodical play.
Support the retrieving by time, event, channel.
Can retrieve and play simultaneously.
Playing mode: 4X, 8X, 24X speed playing, pause, 1/2X, 1/4X, 1/8X slow playing, single-frame playing.

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, and sensor, support the alarm-trigger, short circuit ,etc in each channel, ensuring to

alarm in time when someone want to break it.

Motion detection alarm, can save the HDD capacity effectively; single image is divided into 11x9 check regions; multi-grade flexibility adjustable, conveniently and real no-watching effect.

Feature the adjustable pre-alarming and alarm record delay functions(59 minutes, adjustable) to assure the integrity of alarm record information which is convenient for future use.

Alarm record can automatically pop up the alarm channel image and transmit the alarm video & alarm information to the control center.

Video Function:

VGA output to computer monitor, which it will be more clearer and exquisite pictures with VGA signals.

Can adjust the video parameter according your actual needs.

Preview image can be setup the auto-switching.

PAL/NTSC switchable.

P/T/Z Function:

Support the P/T/Z decoder with the RS845 communication.

Having the multi-decoding protocol and baud rate; can control the P/T/Z and camera with remote controller; can expand multi-decoding protocol.

Network Function:

Support the Modem, ADSL, ISDN, LAN, WAN etc.

Support the TCP/IP, UDP/IP, MULTICAST etc. Protocols.

Can record, stop, backup, control the P/T/Z etc. remotely.

In sub network, multiple hosts with share IP can at the same time be accessed remotely via the internet.