



## Specifications: ATM Series DVR

### ATM Series Digital Video Recorder:

#### Features:

- H.264 Compression
- Pentaplex Function: Live, Record, Playback, Backup, Transmit
- Full D1 Realtime Recording: **TS-DVR04AH-U**
- Dual Encoding Streams Support
- TV / VGA / HDMI Synchronous Video Output
- Smart Video Detection: Motion Detection, Camera Blank, Video Loss
- 3D Intelligent Position Support through Thyonix Speed Domes
- Support 4 SATA HDDs, 1 eSATA, 2 USB
- Support any ATM protocol for Text Overlay & Search
- Smart HDD Management: Non Working HDD Hibernation, HDD Fault Alarm, RAID Function

Model	TS-DVR04AL-U TS-DVR04AL-UD	TS-DVR04AH-U TS-DVR04AH-UD
<b>System</b>		
Main Processor	High performance embedded microprocessor	
Operating System	Embedded LINUX	
System Resources	Pentaplex function: live, recording, playback, backup & remote access	
Control Mode	Front panel, USB mouse, IR remote control, Keyboard, Network	
<b>Video</b>		
Input	4 channel, BNC(1.0Vp-p, 75Ω)	
Standard	NTSC(525Line, 60f/s), PAL(625Line, 50f/s)	
Output	1 TV, BNC(1.0Vp-p, 75Ω), 1 VGA, 1 HDMI 5.6-inch color LCD [ TS-DVR04AL / AH-UD ]	
<b>Audio</b>		
Input	4 channel, BNC(200-2800mV, 30KΩ)	
Output	1 channel, BNC(200-3000mV, 5KΩ)	
Bidirectional Talk	1 channel Input, BNC(200-2800mV, 30KΩ), 1 channel Output, BNC(200-3000mV, 5KΩ)	
<b>Display</b>		
Display Split	1/4	
Resolution	1280×1024, 1280×720, 1024×768, 800×600	
Tour Display	Support	
Privacy Masking	4 self-defined four-sided zones for privacy masking for each camera	
OSD	ATM/POS information, camera title, time, video loss, camera lock, motion detection, recording	
<b>Recording</b>		
Video/Audio Compression	H.264 / G.711	
Image Resolution	D1/4CIF(704×576/704×480) / HD1(352×576/352×480) / 2CIF(704×288/704×240) / CIF(352×288/352×240) / QCIF(176×144/176×120)	
Encoding Speed	Main Stream: Channel 1: D1/CIF/QCIF (1~25/30fps); Channel 2~4: CIF/QCIF (1~25/30fps), D1 (1~6/7fps); Extra Stream: QCIF(1~25/30fps), CIF(1~6/7fps)	Main Stream: D1/HD1/2CIF/CIF(1~25/30fps), Extra Stream: CIF/QCIF(1~25/30fps)
Bit Rate	32~2048Kb/s	
Image Quality	1~6 level(level 6 is the best, VBR effectively)	
Recording Mode	Manual, Schedule(Regular(Continuous), MD(Video detection: Motion detection, Camera blank, Video loss), Alarm), Stop	

Recording Priority	Manual > Alarm > MD > Regular
Recording Interval	1~120 min. (default: 60 min.), Pre-record: 1~30 sec., Post-record: 10~300 sec.
<b>Video Detection &amp; Alarm</b>	
Trigger Events	Recording, PTZ movement, Tour, Alarm, Email
Motion Detection	Zones: 396(22×18), Sensitivity: 1~6 (level 6 is highest)
Video Loss & Camera Support	Support
Blank	
Alarm Input	6 channel
Relay Output	3 channel
<b>Playback &amp; Backup</b>	
Playback Channel	1/2/4
Search Mode	ATM/POS, Time/Date, Alarm, Motion Detection & Exact search (accurate to second)
Playback Functions	Play, Pause, Stop, Rewind, Fast play, Slow play, Next file, Previous file, Next camera, Previous camera, Full screen, Repeat, Shuffle, Backup selection, Digital zoom(any size)
Backup Mode	Flash drive/ USB HDD/ USB CD/DVD-RW / Network download
<b>Network</b>	
Ethernet	RJ-45 port (10/100M)
Network Functions	TCP/IP, UDP, DHCP, DNS, IP Filter, PPPOE, DDNS, FTP, Email, Alarm Server
Remote Operation	Monitor, PTZ control, Playback, System setting, File download, Log information
<b>Hard Disk</b>	
Hard Disk	4 SATA ports, Max 2TB per HDD supported
Space Occupation	Audio: 28.8MB/H, Video: 56~900MB/H
HDD Management	Hard disk hibernation technology, HDD faulty alarm & Raid(Redundancy)
<b>Auxiliary Interface</b>	
USB Interface	2 ports, 1 for mouse control, 1 for backup
eSATA	1 port
RS232	ATM/POS communication, Thyonix keyboard, PC communication
RS485	PTZ control
<b>Environmental</b>	
Power Supply	AC 100~240 V, 50/60 Hz
Power Consumption	18W~22W
Working Environment	-10~6+55°C / 10~90%RH / 86~106kpa
Dimension	ATM box, 200mm×130mm×320mm(W×D×H)
Weight	3.5KG~4.5KG(without HDD)

