



"Superb Image Quality"
"Excellent Performance & Stability"

Special Functions



Real-time (480fps) Recording / Playback

Recording and Playing back up to 480fps.



Cameo Live / Playback Function

Live Monitoring and Playback can be performed on a single screen.



e-Map Function

Locating any cameras to any spots on a map in .bit map format by drag & drop / Convenient hot key menu supporting Event Pop-up, Digital Zoom, Video Save and Print.



Front USB Ports and Built-in CD-RW (DVD-RW - option)

Connecting various External devices / Mouse, Memory Stick or External USB HDD.



Mass Storage System up to 1.5TB (1xCD(DVD)-RW, 3xSATA HDDs)

Up to 1.5TB of Internal Storage while using CD-RW or DVD-RW as a backup device.



MPEG-4 Real-Time DVR AT-1600

Major Features

- Real-time(480fps) Display / Recording / Playback.
- 4 x SATA (1 x SATA CD or DVD-RW, 3 x SATA HDDs). • 1000Mbps Ethernet.
- Pentaplex Operation - Simultaneous Live / Record / Playback / Network / Backup.
- Live or Playback selectable per channel on a single screen.
- Multiple Video Outputs: 1 Main, 1 VGA, 3 Spot Outputs.
- S.M.A.R.T (HDD Health Checking) & NTP(Network Time Protocol).
- User Friendly Graphic menu and Pop-up menu.
- Multiple Search Mode and Smart Search Function.
- Hidden (Covert) Camera Function.
- Multi-site/Enterprise Level Client Software with e-Map and 64ch Monitoring / Remote Configuration / Remote S/W upgrade / Web Browser (Internet Explorer).
- Static and Dynamic IP support / Dynamic DNS Server for Easy Remote Connection.
- Automatic E-mail Notification. • Backup files into AVI & JPEG formats.



GUI (Graphic User Interface)

- Client Friendly Graphic Menu
- Convenient Pop-up Menu



Live Viewer / Search Viewer

- 64ch simultaneous monitoring and recording
- Cameo Live or Playback per channel
- Timeline Based Search
- Remote Alarm In/Out control
- Single PTZ on Pilot • Favorites function
- Live Image Save and Print • Digital Zoom



SMS (Server Management Software)

- Remote Event Monitoring • Event Log Management
- Manages Unlimited number of DVRs
- E-Map based Monitoring • Remote Server Configuration Setup
- Remote Server Upgrade (Direct / Event / Schedule / CDBurning)
- Remote Backup and CD Burning
- Extensive Software Development Kit (SDK)



Web Viewer

- MS Internet Explorer Viewer
- Remote Alarm In/Out control
- Remote PTZ control
- Digital Zoom
- Live Image Print Saving & Printing



MPEG-4 Real-Time DVR AT-1600

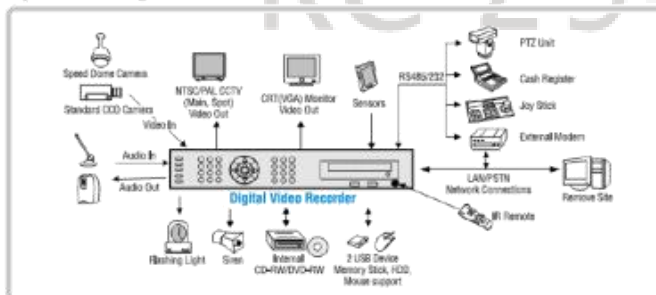


Specifications

MODEL	AT-1600	
Video Signal	Support NTSC & PAL Standards (Auto Selection)	
Operating System	Embedded Linux	
Pentaplex Function	Simultaneous Live / Record / Playback / Network / Backup	
Video	Input	16
	Output	1.Composite (BNC), 1.VGA 3 BNC (Spot)
Display	Loop Out	16
	Speed Screen	NTSC: 480fps / PAL: 400fps 1/4/7/9/10/13/16
Video Compression	Enhanced MPEG-4	
Recording	Speed	NTSC: CIF(480fps), HVGA(240fps), VGA(120fps) PAL: CIF(400fps), HVGA(200fps), VGA(100fps)
	Resolution	NTSC: CIF(360x240), HVGA(720x240), VGA(720x480) PAL: CIF(360x288), HVGA(720x288), VGA(720x576)
Serial Interface	RS-485, RS-232C (PTZ, Keyboard, POS)	
System Control	PC Mouse, Key Buttons, IR Remote Controller, Keyboard Controller, Client PC	
Alarm	In / Out	16 / 4
Audio Channels	4(Basic), 16(Optional)	
Display Settings	Brightness, Contrast, Color Adjustments, Hidden/Covert Per Channel	
Camera Title	13 Characters per Channel	
Recording Modes	Continuous, Schedule, Alarm, Motion, Overwrite	
Recording Adjustments	3 Levels of Resolution / Recording Frame Rate Adjustment Per Channel	
Motion Detection Per Channel	294 Selectable Grids / 5 Sensitivity Levels	
Search Modes	Time & Date, Camera, Motion, Alarm, Video Loss	
Playback Modes	Forward & Reverse: Pause, Field by Field, Normal Speed, 2x, 4x, 8x, 16x, Panorama, Motion	
Power Failure Recovery	Auto Reboot while Maintaining Previous Status	
Alarm Notification	Automatic E-mail	
System Utility	3-Level Password	
Internal Backup Device	CD-RW or DVD-RW	
External Backup Device	USB2.0: Memory Stick, External HDD	
Mini-player for Backup	Installing dedicated software into PC is not required to playback files from CD or DVD	
Communication Port	USB2.0, RS-232C, RS-42/485, 10 / 100 / 1000Mbps Ethernet	
Storage Capacity	1 x SATA CD(DVD)-RW, 3 x SATA HDDs(Up to 1.5TB)	
Network	LAN, WAN, Internet, PSTN	
External Modem Support	RS232C	
Remote Client Software	Multi-site / Enterprise Level Client Software or Web Browser	
Dimensions	440(W) x 430(D) x 78(H) : 2U Rack Mount Kit	
Weight	8kg	
Power	120W, 90-264 VAC (47Hz-63Hz)	
Operating Temperature	0 ~ 40°C	

* Specifications are subject to change without any prior notice.

System Configuration





MPEG-4 Pentaplex Standalone DVR ST-1600/800/400



480 fps FRONT USB CAMEO Live e-map SAVE TEXT 1500 GB MPEG-4 Movie

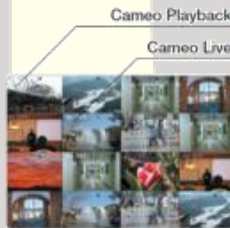
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Special Functions



Cameo Live / Playback Function

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e-Map Function

Locating any cameras to any spots on a map in .bit map format by drag & drop / Convenient hot key menu supporting Event Pop-up, Digital Zoom, Video Save and Print.



ATM/POS Text Save and Search

Saving texts from the connected ATM/POS devices with multiple search modes.



Front USB Ports and Built-in CD-RW (DVD-RW - option)

Connecting various External devices / Mouse, Memory Stick or External USB HDD.



Mass Storage System up to 1.5TB (3 internal HDDs)

Up to 1.5TB of Internal Storage while using CD-RW or DVD-RW as a backup device.

Major Features

- Multi-tasking Operation (Pentaplex) - Simultaneous Live / Record / Playback / Network / Backup
- Enhanced MPEG-4 Compression (Average file size: 1~2.5kb)
- Embedded Linux Operating System • Built-in Multiplexer
- Up to 240 fps of recording Rate
- Multiple Simultaneous Video Outputs: 1 Main Monitor, 1 VGA Monitor, 3 Spot Monitors
- User Friendly Graphic menu and Pop-up menu
- Multiple Search Modes and Smart Search Function
- Hidden / Covert Camera Function
- RS-422/485 for Speed dome and Keyboard controller
- Support Various PTZ Protocols
- HDD Mirroring between Internal HDD and External HDD
- Remote Configuration / Software Upgrade
- Mini Player: Auto Installation into CD or DVD during backup
- Built-in Backup Device: CD-RW or DVD-RW
- External Backup Device Support(USB 2.0): Memory Stick, External HDD
- Various Interface: Mouse, IR remote Controller, Keyboard Controller • POS Support
- Multi-site/Enterprise Level Client Software with e-Map and 64ch Monitoring / Web Browser (Internet Explorer 6.0)
- Static and Dynamic IP support / Dynamic DNS Service for Easy Remote Connection
- Automatic E-mail Notification • Backup files into AVI & JPEG Formats



GUI (Graphic User Interface)

- User Friendly Graphic Menu
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Live Viewer/ Search Viewer

- 64ch simultaneous monitoring and recording
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Web Viewer

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- Remote Alarm In/Out control
- Remote PTZ control
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- Live Image Print Saving & Printing



MPEG-4 Pentaplex Standalone DVR

ST-1600/800/400



Specifications

MODEL	ST-1600	ST-800	ST-400	
Video Signal	Support NTSC & PAL Standards (Auto Selection)			
Operating System	Embedded Linux			
Pentaplex Function	Simultaneous Live / Record / Playback / Network / Backup			
Video	Input	16	8	
	Output	3 BNC (Spot)	1 Composite (BNC), 1 VGA	4
Display	Loop Out	16	8	4
	Speed	NTSC: 480fps / PAL: 400fps	NTSC: 240fps / PAL: 200fps	NTSC: 120fps / PAL: 100fps
	Screen	1/4/7/9/10/13/16	1/4/7/8	1/4
Video Compression	Enhanced MPEG-4			
Recording	Speed	NTSC: CIF(240fps), HVGA(120fps) PAL: CIF(200fps), HVGA(100fps)		NTSC: CIF(120fps), HVGA(60fps) PAL: CIF(100fps), HVGA(50fps)
	Resolution		NTSC: CIF(360x240), HVGA(720x240) PAL: CIF(360x288), HVGA(720x288)	
Serial Interface	RS-485, RS-232C (PTZ, Keyboard, POS)			
System Control	PC Mouse, Key Buttons, IR Remote Controller, Keyboard Controller, Client PC			
Alarm	In / Out	16 / 4	8 / 1	4 / 1
Audio	In / Out		1 / 1	
Display Settings	Brightness, Contrast, Color Adjustments, Hidden/Covert Per Channel			
Camera Title	13 Characters per Channel			
Recording Modes	Continuous, Schedule, Alarm, Motion, Overwrite			
Recording Adjustments	4 Levels of Resolution / Recording Frame Rate Adjustment Per Channel			
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Internal Backup Device	CD-RW or DVD-RW			
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Mini-player for Backup	Installing dedicated software into PC is not required to playback files from CD or DVD			
Communication Port	USB2.0, RS-232C, RS-42/485, Ethernet			
Storage Capacity	Up to 1.5TB: 3 Internal			
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External Modem Support	RS232C			
Remote Client Software	Multi-site / Enterprise Level Client Software or Web Browser(IE 6.0)			
Dimensions	440(W) x 430(D) x 78(H) : 2U Rack Mount Kit			
Weight	7kg			
Power	60W, 90-264 VAC (47Hz-63Hz)			
Operating Temperature	0 ~ 40°C			

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System Configuration

