

4-channel Standalone DVR

APG-4600V



Technical Data

CPU	TI Davinci DM644x
OS	Embedded Linux
System Ability	4-channel simultaneous record and playback, multi-channel network transmission, support dual stream
TV System	PAL / NTSC
Video Compression	H.264
Audio Compression	ADPCM
Redording	Manual, Program, Alarm, Motion Detection
File Search	By time, even or channel index
Backup	Network Backup, USB Backup, SATA Backup
Video Input	4-channel BNC
Video Output	1-channel BNC, 1-channel VGA
Audio Input	1-channel BNC
Display Resolution	PAL:720 X 576 (D1) NTSC: 720 X 480 (D1)
Recording Resolution	PAL: 352 X 288 (CIF) NTSC: 352 X 240 (CIF)
Image Control	6 level adjustable
Motion Detection	396(22X18) Checking Area , Multi-level Sensibility adjustable
Display	Mono / Quad
Record Speed	PAL: 25 f/s(adjustable) NTSC: 30f/s(adjustable)
Storage	Local Hard Disk / Network
Local Playback	1-channel simultaneous playback
Alarm Input	Switch X 4
Alarm Output	Relay Output X 1
Pan & Tilt	RS485
Hard Disk Drive	2pc SATA Interface
Network Interface	RJ45 10M/100M Self-adaptive Ethernet
Protocol	TCP/IP, UDP, HTTP, PPPoE, RTP
USB Interface	USB2.0 X 1, USB1.1 X 1
Power Supply	DC 12V 3A
Size	315 X 270 X 55 MM

Standalone DVR



Technical Data

Model	APG-8600S	APG-1600G	APG-8600D	APG-1600D
CPU	Industrial Level Microprocessor Control Unit			
Operating System	Embedded Real-Time Operating System (RTOS)			
Pictures Display	1/4/8/9/16 Pictures Display			
Monitor Image Resolution	PAL/NTSC: D1(704X576) / (720X480)			
Replay Resolution	PAL/NTSC: D1(352X288) / (320X240)		PAL/NTSC: D1(704X576) / (720X480)	
Video Input	8 channels	16 channels	8 channels	16 channels
Video Output	2-channel BNC, 1-channel VGA			
Image Compression	H.264 variable bit rate and constant bit rate support			
Image Control	6-level switchable			
Detection Sensibility	192pcs (16X12) detection area in one image, multi-level sensibility settable			
Recording Priority	Manual > Alarm > Dynamic Detection > Timing			
System Resource	Multi-channel recording Simultaneous, Multi-channel replay Simultaneous, Multi-channel network operation Simultaneous,			
Local Replay	2-channel (max.)			
Recording Storage	Local Harddisk, Network			
Backup	Network, USB, SATA			
Alarm Inputs	16-channel (Low level available)			
Alarm Outputs	6-channel relay output			
Audio Input & Output	16-channel input & 1-channel output			
Recording Search	Index by time, calendar, event, channel			
PTZ Control Interface	RS485 1pc, RS232 1pc			
Network Interface	RJ45 10M/100M Self-adaptive Ethernet Interface			
USB Interface	2pcs			
Hard Disk	4pcs STAT Interface			

Hybrid DVR

Features

Advanced Functions

- H.264 / MPEG-4 / MJPEG compression
- Up to 8CH IP camera recording
- Megapixel recording
- Real-time recording
 - Pentaplex operation: in time, recording, replay, network, backup
- User management
 - Per channel configuration
 - NTP for time synchronization
 - WLAN, SMS
 - Built-in Pelco Coaxitron® protocol
 - POS function: transaction monitoring
 - Up to 4 internal SATA HDDs
 - Supports internal DVD+RW
- Digital display output
- Dual-gigabit LAN ports
- 4/8/16CH audio recording
 - Mobile View software
 - AIPURemote™ for remote monitoring
 - AIPUGuard™ CMS for video management



Humane Technology

- GUI
- USB mouse / USB keyboard; optional
 - Control keyboard; optional
 - IR remote control
 - Jog / Shuttle
- UPnP
 - Exports AVI file for Microsoft® Media Player

Modular Upgrade Kits

- U Module for real-time recording
 - Optional Disk Array for extended recording storage
 - Alarm Hub for 16CH alarm relay output
- Audio Module for 4/8/16CH audio output

Specification

Item	APG-8816H
Video	
Operation System	Embedded (Linux)
Video Standard	NTSC/PAL Switch Selectable
Input	BNC × 16, 1.0 Vp-p, 75 ohm
Input IP devices	Up to 8CH

Outputs	Main Monitor	BNC × 1, S-Video × 1, 1.0 Vp-p/75 ohm
	Call Monitor	BNC ×1, 1.0 Vp-p/75 ohm
	Loop	BNC × 16,1.0Vp-p,75 ohm
Digital Display Output		800 × 600, 1024 × 768, 1280 × 1024 pixels
VGA Output		800 × 600, 1024 × 768, 1280 × 1024 pixels
Picture Refresh Rate		NTSC: 30 pps/per CH, PAL: 25 pps/per CH
Audio		
Input		Terminal Block, × 16 Line-In
Output		RCA x 1, Line-Out
Compression Method		ADPCM, G.726
Data Rate		8 KB/s per CH
Recording		
Compression Method		H.264
Recording Mode		Schedule, Alarm, Motion Detection
Pre-alarm		Yes
H.264		NTSC 720 × 480 MAX 480 pps PAL 720 × 576 MAX 400 pps
Recording Quality		8 Levels Presets, Adjustable
Storage Mode		Linear / Circular
Data Lifetime		Yes (Programmable)
Storage		
Build-in HDD		× 4 SATA for HDD and DVD+RW
Cartridge / DVD+RW		Optional
Extended Storage		Support Disk Array
Output		× 4 USB 2.0 Ports, Support USB Flash Drive and DVD+RW
Alarm		
Alarm Input		×16, Terminal Block (TTL)
Alarm Relay Output		× 3, Terminal Block, 3.0A / 30 VDC or 3.0A / 125 VAC
Alarm Detection		N.C./N.O., Programmable
Motion Detection		15 × 11 Grid Array, Sensitivity, Trigger Level Adjustable
Video Loss Detection		Programmable
Communication		
Network Connectivity		Ethernet RJ45 connector, 10/100/1000 Mbps
Compatible IP Camera		ACTi, AXIS, DynaColor, HUNT, SANYO, SONY, VIVOTEK
Remote Control Software		AIPU™ CMS, AIPURemote™①
Remote Operation		Monitoring, Playback, Recording, System Setup, Dome Camera Control, Archiving
RS-232C		D-SUB 9 Pin Female
RS-485		Terminal Block
Dome Camera Control Protocol		DSCP, Pelco P, Pelco D, AD422, Fastrax 2, Panasonic, JVC
General		
Unit Dimension (W × H × D)		440 × 90 × 413 mm (17.3 × 3.54 × 16.3 inches)
Unit Weight		7 Kg (15.42 lbs) with DVD+RW
Operation Temperature		0 °C ~ 40 °C (32 °F ~ 104 °F)
Relative Humidity		0% ~ 90% Non-condensing
Power Consumption & Input		AC 100 ~ 240V, 50-60 Hz, 200W (Manual Select)

Industrial-PC DVR (6000-series)

Features

- * Simultaneous support H.264 and MPEG4 compressed format
- * Real-time compression and preview
- * Support I, B and P multi-combined modes with high compression ratio
- * No CPU occupancy and no interference during preview or compression
- * Dynamic accurate settings of multi-video/audio parameters guarantee best effect
- * High frame rate: 1-25fps (PAL) (adjustable), 1-30fps (NTSC) (adjustable)
- * Support high compression bit rate: 20K~ 2Mbps for CBR, VBR or Hybrid
- * Optimized decoder for over 32 channels simultaneously
- * 8 TCP/UDP transmission per channel
- * 32 channels TCP/UDP transmission per server and no limit for group play
- * Dynamic frame extraction during compression and recovered at any time to reduce storage space
- * Low time-lapse transmission
- * Support CIF/QCIF for PAL/NTSC
- * Audio module selectable, support G.72x audio compression with 16bits sampling accuracy to guarantee sound quality



Technical Data

Model No.	APG-6004J	APG-6008J	APG-6012J	APG-6016J
Video Input	4-channel composite video signal	8-channel composite video signal	12-channel composite video signal	16-channel composite video signal
TV System	PAL, NTSC			
Horizontal Resolution	352X288 / 176X144 (PAL)			
	320X240 / 160X120 (NTSC)			
Frame Rate	25f/s, 30f/s			
Output Bit Rate	20kbps-2Mbps			
Audio Input	4-channel	8-channel	12-channel	16-channel
Audio Sampling	8KHZ, 16bits sampling accuracy			
Output Bit rate	8-32kbps			
Compression	G.72X			
Network Protocol	TCP / UDP			
Operation System	Windows2000/XP			

Industrial-PC DVR (9000-series)

Features

Image

- . H.264 technology with high resolution image
- . Multi-patent and technologies used during compression guarantee high image quality with low bit rate
- . Multi-image processing to strengthen filtering noise signal and get clear image

Image Compression

- . Simultaneous support H.264 and MPEG4 compressed format
- . Real-time compression and preview
- . I, B and P multi-combined modes support with high compression ratio
- . Dynamic frame extraction during compression and recovered at any time to reduce storage space
- . No CPU occupancy and no interference during preview or compression
- . Dynamic accurate settings of multi-video/audio parameters guarantee best effect
- . High frame rate: 1-25fps (PAL) (adjustable), 1-30fps (NTSC) (adjustable)
- . Support high compression bit rate: 20K~ 2Mbps for CBR, VBR or Hybrid



Play & Transmission

- . Optimized decoder simultaneous support over 32 channels
- . 8 TCP/UDP transmission per channel
- . 32 channels TCP/UDP transmission per server and no limit for group play
- . Low time-lapse transmission

Stability & Convenience

- . Refined Technology and firm structure
- . Low power consumption and heat, system reliability & high stability

Technical Data

Model No.	APG-9004H	APG-9008H	APG-9012H	APG-9016H
Video Input	4-channel composite video signal	8-channel composite video signal	12-channel composite video signal	16-channel composite video signal
TV System	PAL, NTSC			
Horizontal Resolution	720X576 / 352X288 / 176X144 (PAL)			
	720X480 / 320X240 / 160X120 (NTSC)			
Frame Rate	25f/s, 30f/s			
Output Bit Rate	20Kbps-5Mbps			
Audio Input	4-channel	8-channel	12-channel	16-channel
Audio Sampling	8KHZ, 16bits sampling accuracy			
Output Bit rate	8-32kbps			
Compression	D1/CIF/QCIF			
Compression Frame Rate	1-25 (PAL) (adjustable), 1-30 (NTSC) (adjustable)			
Compression Bit Rate	20K-5Mbps, support CBR / VBR / Hybrid			
Network Protocol	TCP / UDP			
Operation System	Windows2000/XP			