







DVR-HA6104 4ch 100/100fps DVR (2HDDs)

DVR-HA6108 8ch 200/200fps DVR (2HDDs)

DVR-HA6116 16ch 400/400fps DVR (2HDOs)



DVR-HA6216 16ch 400/400fps D1 DVR (4HDDs)



Professional Pentaplex H.264 DVR Digital Video Recorder





DVR-HC6504 4ch 100/100fps Combo DVR

DVR-HC6508 8ch 200/100fps Combo DVR



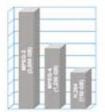
DVR-HV6004 4ch 100/100fps Vehicle DVR

DVR-HV6008 Bch 200/100fps Vehicle DVR

HA6000 Series DVR



Latest H.264 Video Compression



- 60% Smaller File Size than MPEG-2
- 40% Smaller File Size than MPEG-4
- Longer Record Times



- Lower HDD Cost
- 30% Lower Bandwidth than MPEG4
- Faster Downloads
- · Higher Frame-rate through network



Pentaplex

Simultaneous Live Monitoring, Playback, Recording, Remote Monitoring & Backup.



Embeded Linux

Stable, Reliable & Cost Effective comparable to PC system.

Real-Time Display

Real-Time 25/30fps per channel live display.

D1/Half-D1/CIF Recording

Various recording resolution, frame rate, programmable through scheduling of each ch. Cater for each customer need

Independent VGA & Composite Output

Support LIVE / Playback or LIVE / PTZ or LIVE / Event Popup display with 1 VGA and 1 composite monitor. Both monitor display independently controlled.



Advertisement (HA Series only)

Support JPEG images up to 15ips advertisement with scheduling.

3 Streaming (HA Series only)

Independent Recording, Network and Mobile Phone resolution, quality and framerate.

Advance iPhone/iPad/Android Software

Support Multi-Channel Live View, DVR setup, Event Monitoring, Alarm Output Control, PTZ Control and Remote Playback.

MAC Safari



Remote monitoring through APPLE MAC Safari

User Friendly GUI

Same GUI for DVR setup at Live & through Network and Mobile phone.



Powerful Web Function

Remote Monitoring / DVR Setup / Search & Backup through Internet Explorer 7.0 or above.



Digital Zoom

Up to 8x (HA models) or 2x (other models) digital zoom during live & playback.







Digital Zoom In

Digital Zoom Out

Advance User Authority

Detail user authority control eg. Remote View, Playback, PTZ by channel.

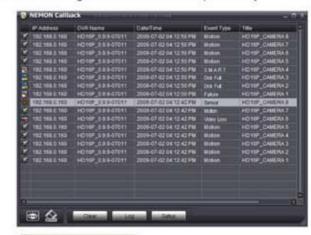
Schedule Backup

Automatic backup DVR data to remote PC or NAS Server. Unlimited days of video recording.



Powerful Call Back Function

DVR can be programmed to send message to 10 CMS center if any event occur. Including, alarm in, motion, video loss, text-in, HDD bad and etc. The CMS operator can view live video & audio or playback easily by clicking the connect button. CMS center can receive un-limited numbers of DVRs callback. Callback message will be stored in CMS PC permanently.





Email Notification

Callback

DVR can be programmed to send text message to 5 E-mail account if any event occur.



Spot Monitor Output

Channels, Sequence time, and Pop-up can be programmed for each spot monitor output. HA6216 with 4 spot monitor output.



Quick Setup

DVR 1st time power up, automatically prompt for Quick Setup like DVR name, language, time/date, network setting, recording frame rate/quality, format HDD.

Video Looping Output

Video input can be loop-out to 2nd monitoring station w/o signal loss. Saving cost for video distribution amplifier. Video looping output is optional for HA series. H6216 build-in video looping output.

E-Map

Remote monitoring through map with event handling.





PIP

Monitoring & PTZ on a single channel full screen, while opening a small PIP window for another important channel. Various options for size and location of the PIP.



PTZ mode with PIP



PTZ mode in Web

PTZ

RS485 output. Multiple protocol & baudrate programmable. 8-direction Pan/Tilt Control. Easy Presets saving and recall. Same GUI and functions in live mode and remote side.



Keyboard Controller

Multiple DVRs can be operated with a single CCTV keyboard.



Remote-con ID

Multiple DVRs can be operated with a single remote controller. Both Remote con ID & DVR ID is programmable.







Multiple Audio Support

H6000 series DVR support multiple audio recording and live audio monitoring through network. Title of each audio in is programmable up to 16-Alpha-numeric.

Two-Way Audio

Allows 2-way communication between DVR & remote site through network.





Multi-Backup Format

DVR original format : Multi-ch, require DVR software to playback

EXE format : Multi-ch, PC direct playback

Video Clip: 1ch, PC playback using Quick-time player

AVI : 1ch backup/playback through PC

DVR support direct playback from backup media like DVD/USB drive if backup in DVR original format.



Multi Language

Support up to date 12 languages. Including Korean, English, Chinese, Japanese, Portuguese, France, Italian, Czechoslovakia, Spanish, Nederland, Turkish and etc.

Text-Insert

Integration with ATM / POS / Access Control with RS232/485 connection. User can search & playback the video with text in. Text-in can be turn on/off during live and playback.





Alarm Input/Output

Multiple Alarm input enable the DVR integrate with various devices like emergency button, PIR motion sensors, door contact etc. Multiple Relay output enable the DVR to control various output devices including siren, lighting, door open and etc.

Sensor Input

-	1	2	3	50	NSO G	R IN	•	7		G
ſ	0	0	0	0	0	0	0	0	0	0
l	0	0	0	0	0	0	0	0	0	0
L	Ļ	10	11	12	G	13	14	15	16	G

Alarm Output & RS485

	_	_	_	-	_	ALA	RM.	DUT	_	_	_	-	_
	Rt	R5	R2	82	R3	R3	R4	RA	5		7		0
	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0
_	G	,	10	**	12	G	13	14	15	16	0	TRX	• TR

NTP Synchronization

DVR can be programmed time sync to any NTP (Network Time Protocol) server through internet. Ensure DVR time frame will not runs off.

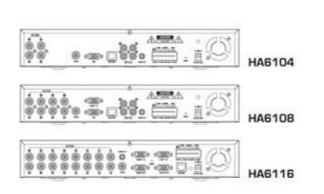




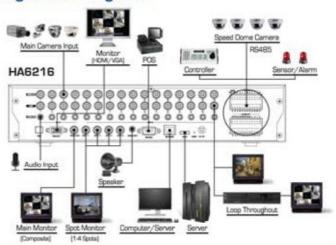


	HA6104	HA6108	HA6116	HA6216
VIDEO INPUTS & OUTPUTS			The second second second	
Signal Format (Auto-Detect)	NTSC or PAL	NTSC or PAL	NTSC or PAL	NTSC or PAL
Video Input	Composite : 4 BNC	Composite : 8 BNC	Composite : 16 BNC	Composite : 16 BNC
Monitor Dutauts	1 Composite, 1 VGA	1 Composite, 1 VGA	1 Composite, 1 VGA	1 Composite, 1 VGA, 4 Spot, 1 HDN
VGA Dutput	1	4	1	1
Video Looping Output	No	Option	Option	Built-In
Resolution	720 X 576	720 X 576	720 X 576	1920 X 1080
NAME AND ADDRESS OF THE OWNER, WHEN PARTY OF T	720 X 370	760 A 370	720 A 3/0	1950 X 1080
AUDIO INPUTS & OUTPUTS	No. of the last of		I washing	
Audio Input	4 RCA	Option	Option	16 RCA (4 Mic In, 12 Line In - Option)
Audio Output	1 RCA (Line Out)			
AUXILIARY INPUTS & OUTPUTS	No.	8	A	1
RS232		1EA, For POS, Access Control, PT	Z Integration, Key Board Control, ATM	
RS485		1EA, For POS, Access Control, PT	Z Integration, Key Board Control, ATM	
USB Port		USB 2.0 x1, US	8 1.1 (Mouse) x1	
IR Remote Control Port	Yes	Yes	Yes	Yes
ALARM HANDLING				
Alarm Input	4 TTL	4 TTL	4 TTL	16 TTL
Alarm Dutput	ACC127.	0.57475		COVADA DE ENDOVARIO
	5 LLT	2 TTL	2 TL	4 Relay + 12 TTL
Pre-alarm Recording	Up to 30 sec. (Programmable)			
Post-alarm Recording	Up to 1 min. (Programmable)			
MONITOR VIEWING		14/2000	i julianos	V State of the sta
Display Rate	Real Time	Real Time	Real Time	Real Time
Split Screen	1, 4, PIP, Digital Zoom	1, 4, 9, PIP, Digital Zoom	1, 4, 9, 13, 16, PIP, Digital Zoom	1, 4, 9, 13, 16, PIP, Digital Zoom
RECORDING				
Video Compression	H.264	H.264	H.264	H 264
Recording Image Resolution	CIF, Half D1, D1			
Speed @ Resolution	120fps / 100fps @ H-D1	240fps / 200fps @ H-D1	480/ps / 400/ps @ CIF	480fps / 400fps @ D1
(NTSC / PAL)	60fps / 50fps @ D1	120fps / 100fps @ D1	240fps / 200fps @ H-D1	Houps / Houps & D1
INISC/ PALI	Bulgs / Sulps W D1	12ups/10ups w b1.		
	ALTONIO DE PARTO DE LA CONTRACTOR DE LA		120fps / 100fps @ D1	
Picture Quality	Very High, High, Standard, Low			
Quality Programmable per CH	Yes	Yes	Yes	Yes
Mode		Time-Lapse, Event, Time	& Event, Emergency (Panic)	
STORAGE		2335100000000000000000000000000000000000	AND DESCRIPTION OF THE PARTY OF	
Primary Storage	SATA 2EA	SATA 2EA	SATA 2EA	SATA 3EA + SATA COO lor Max. 4 SATA HOO!
Max. Capacity per HDD	2TB	218	2TB	BIR
SEARCH & PLAYBACK	210	610	610	610
Display	4 A Dickel Zees	1 4 0 Detail 7	1 4 0 42 46 Dietal Zees	1 4 0 12 45 Nobel Zees
Contraction of the Contraction o	1, 4, Digital Zoom	1, 4, 9, Digital Zoom	1, 4, 9, 13, 16, Digital Zoom	1, 4, 9, 13, 16, Digital Zoom
Search Mode		the contract of the contract o	rch, Text-In Search, Go To Time	
Playback Mode	N.	fulti Channel Normal & Reserve Play, RW & FF	(X2, X4, XB, X16, X32), Frame to Frame, Pau	use
BACKUP				1
000	None	None	None	CD / DVD-RW
USB .		External HOD (LUSB),	External USB Memory	
Network Backup		1. DVR Own Format (use software to play)	ack) 2. AVI (Single CH, from Network to PC)	
DVR Backup	1 DVR Own Fo		lexe file for PC viewl 3. Video Clip (Single CH,	from DVR to PCI
NETWORK & INTEGRATION	A PART OF THE PART	The second secon		Service Wilder
Remote Monit	Demote Monitoring Demote Dia	Analy December Cetting (Configuration), December	Backup, Web Monitoring, Web Search, Web Se	at Lin. CS-SC and Call Back E-motion
USER INTERFACES	Methode Worldwing, Methode Met	wow, nervous security scorringer source, Hernoce	Deliver, West Wishinstrag, West Scientifi, West St	IL MA, LIMO BILL CHI DIOX FURGIONI
STATE OF THE PARTY	No.	U. Salar	W.	
Mouse	Yes	Yes	Yes	Yes
R Remote Control	Yes	Yes	Yes	Yes
Software Upgrade	USB, Network	USB, Network	USB, Network	USB, Network
SECURITY				
Key Lock	Yes	Yes	Yes	Yes
TIME SYNCHRONIZATION				
Network Time Protocol	Yes	Yes	Yes	Yes
MISCELLANEOUS				
Dimensions (W x H x D)	370 x 67 x 390 (mm)	370 x 67 x 390 [mm]	370 x 67 x 390 (mm)	430 x 88 x 428 (mm)
Operating Temperature	5°C - 40°C	5°C - 40°C	5°C - 40°C	5°C - 40°C
Power	12V DC. 3.33A, 40W	12V DC, 3.33A, 40W	12V DC, 3.33A, 40W	12V DC, 6.67A, 80W

Rear Panel



Single-Line Diagram







The Most Rugged And Versertile Vehicle DVR Introduced Ever

Various Useful I/Os

HV6004 is equipped with various useful I/Os. 4ch Audio In and 2ch relay out (350mA). 2 USB ports for backup and Mouse control. RS232 and RS485 are provided for External devices.









Multi Storage Support

2.5" Removable HDD, SD Card And USB

3 modes of recording:

- 1) HDD only. 2) SD card only (up to 32GB).
- 3) HDD & SD card (recommended)
- During vehicle start, if temperature is beyond HDD operating temperature (-20°C ~ -50°C), DVR will record into SD card first. HDD recording will resume automatically when temperature return to normal.
- Under normal condition, HDD will record continuously, SD card will record Event only.

Additional Power Supply For Camera And Monitor (12V)

HV6004 provides additional power [12V, 300mA per camera] for cameras and monitor (12V).





Industrial Standard To Stand Harsh Temperature

Built-in Heater & Blower for HDD & DVR board. Extend operating temperature to -20°C ~ 50°C



Anti-Shock And Vibration Tests Upon Military Specification

G-Shock Sensor

Record events like accident, quick accelerate or quick stop.

Built in GPS For E-Map Application

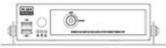
Live tracking vehicle movement by using CMS and Google Maps



Specifications

Model	HV6004	HV6008			
Video Input	4ch	8ch			
Video Output	1x 1Vp-p Composite Video				
Compression	Enhanced H.264				
Display	Real-Time 100fps	Real-Time 200fps			
	100fps@CIF (325x288)	200fps@CIF (325x288)			
Recording (PAL)	50fps@Half-D1	100fps@Half-D1			
	25fps@D1	50fps@D1			
Storage	1x 2.5" SATA HDO (up to 1TB) or 1x SD Card (up to 32GB)				
Audio	4ch In / 1ch Out				
Sensor	2ch In / 2ch Out				
Power	12~36VDC, 64W				
Dimension	218 (W) x 56 (H) x 255 (D)				
Weight	1.3kg w/o HDD				

Technical Drawing



Front View



Back View

128CH CMS (Central Monitoring System) Software



- Compatible with all H6000 series DVR.
- Automatic synchronize with Google map when playing back HV6004 recorded video.
- Health check and auto re-connect for each DVR.
- Group (up to 128ch) Sequencing.
- Monitoring each DVR Sensor in, control each DVR alarm out.
- Up to 128ch video or 128 DVRs Remote. Monitoring / Setup / Search, Backup & Upgrade. Up to 16 favorite group of DVRs & cameras
- for easy monitoring.
- PTZ control for each channel.
- 2-way audio for each channel (depend on which model of DVR)
- Preview during playback
- Allow multiple CMS operate in the same PC.





Combination Functions Of:

- DVR
- PC Monitor
- Text Inserter
- DVR Monitor
- Power Supply For Camera
- Advertisement Display Monitor
- Front-End Sensor For Video CMS Center



23" Wide Screen

Its 23" Wide Screen allows easy monitoring of CCTV surveillance and sufficient view for normal desk job on PC.

Power Supply For Cameras

HC6504/6508 provide 4/8ch direct 12VDC (350mA each ch) power to camera, through RJ45 connections. Easy for installation.



Various And Most Useful I/Os

HC6504/6508 are equipped with various useful I/Os. 4ch Audio Ins and 2ch relay outs (350mA). 2 USB ports for backup and Mouse control. RS232 and RS485 are provided for External devices.









Multi Functional Monitor (VGA In)

HC6500 series can be used as normal PC monitor using its VGA In. Switching between PC & DVR display by touch of a button. Monitor can be turn-off while DVR still running at the background.



Personalised ADs From Network

Advertisement (video or JPEG) can be displayed on screen, while DVR is running at the background. ADs content can be transferred from a center control PC through network.



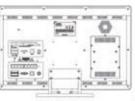
Specifications

Model	DVR-HC6504	DVR-HC6508						
Video Input	4ch	Bch						
Video Output	Built-In 23" 1	Built-In 23" TFT LCD (16:9)						
Compression	Enhanced H.264							
Display	100fps (PAL) / 120fps (NTSC)	200fps (PAL) / 240fps (NTSC)						
	PAL: 100fps@CIF (325x2BB) / NTSC: 120fps@CIF (325x2BB)							
Recording (PAL)	PAL: 50fps@Half-D1 (704x288) / NTSC: 60fps@Half-D1 (704x288)							
	PAL: 25fps@D1 (704x576) / NTSC: 30fps@D1 (704x576)							
Storage	1x 3.5° SATA HDD (up to 2TB)							
Audio	4ch In / 1 Line-out + Built In Speaker	8ch In / 1 Line-out + Built In Speaker						
Sensor	4 Alarm In / 2 Relay + 2TTL Out							
Power	12VDC, 6.67A (8OW) / Adapter Included							
Dimension	574 (W) x 395 (H) x 250 (D)							
Weight	7.7kg w/o HDD							
DATE OF THE COMMENT O								

Technical Drawing



Front View





Back View



Authorised Dealer:



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