

Analog 5M All-in-one 16 CHANNEL DVR V3

VIDEO INPUT			
Video input Format	BNC	AHD, TVI, CVBS(960H,SD)	
	IP(Ethernet)	H.264, H.265	
		Protocol	WESP, Onvif Profile S (all ch support)
Resolution/Frame Rate	AHD	1920×1080@30fps, 1920x1080@25fps 2560×1440@30fps, 2560x1440@25fps 2560x1944@20fps, 2560x1944@20fps	
	TVI	1920×1080@30fps, 1920x1080@25fps 2560×1440@30fps, 2560x1440@25fps 2560x1944@20fps, 2560x1944@20fps	
	CVBS(960H)	960×480@60i, 720×480@60i 960×576@50i, 720×576@50i	
	IP	1st stream: 1280x720~3840x2160 2nd stream: max 720x576	
Connectors		16ch, 75Ω BNC connector	
CoC		Control over Coax@AHD,TVI	
VIDEO OUTPUT			
Video output	Resolution	HDMI : 3840×2160(*), 1920×1080 VGA : 1920×1080, 1280x1024, 1024x768 BNC(CVBS) : 720×480, 720×576	
	Modes	<ul style="list-style-type: none"> - HDMI main + VGA spot - HDMI main + CVBS spot - HDMI/VGA Duplicate - HDMI/CVBS Duplicate - HDMI main + VGA(Service Channel) - HDMI main + CVBS(Service Channel) 	
	BNC(CVBS)	1, 4, 9, 16 split-screen, Switching	
RECORDING			
Compression	H.264 / H.265 / MJPEG		
Resolution	2560x1944, 2560×1440, 1920×1080, 960×480		
Rate	Total 480 fps, Max 30fps/ch @ 1920x1080 Total 240 fps, Max 15fps/ch @ 2560x1440 Total 160 fps, Max 10fps/ch @ 2560x1944		
Quality	10 levels up to 8Mbps@2M, 12Mbps@4M, 8Mbps@5M		
IP Camera	Same as BNC Camera		
Mode	Normal/Event Record, Schedule/Event Record, Emergency Record		
Schedule	24hrs / 7days		
PLAYBACK			
Mode	Instant Playback / Search		
Speed	Max. 480fps		
Search type	Date/Time, Calendar/Time-line, Event, Thumbnail(Interval/Motion), Text, Bookmark		
Block playback	1day ~ 365days		
EVENT & ALARM			
Event source	Motion detection, Sensor input, Video Loss, Text input, AI, System		
Event check Schedule	24hrs / 7days		
Event action	Relay, Buzzer, E-mail, FTP, Video pop-up, Camera Preset, Mobile Alarm Push, System alarm		
MD area	15x10		
Text input	POS/ATM support, AVE VSI Pro/Hydra support		
SYSTEM ALARM			
Event source	HDD fail, HDD almost full, Password fail, WRS/DDNS fail, Recording Fail		
Event action	Pop-up Message, Buzzer, E-mail, Relay, Mobile Alarm Push		
AUDIO			
Input/output	8 RCA input / HDMI & RCA output		
Compression	G.711		
Direction	Both		

PTZ	
Protocols	HIK-C, AHD, C1080(D1080), C1080PT-Z20, Pelco-D, Pelco-P, Samsung, Panasonic and others
NETWORK	
Interface	1 Gigabit Ethernet (10/100/1000Mbps)
Type	Static IP, Dynamic IP
DDNS	WNS, DynDNS, NoIP, WRS
Bandwidth limit	0.01 ~ 100Mbps, unlimited
NTP	Server / Client / Both
Users	10 Monitoring, 4 Playback
RTSP	Supported
UPnP	UPnP auto port forwarding
Streaming	H.264 or H.265 stream, High resolution 1 additional H.264 or H.265 stream, Normal resolution 1 JPEG stream, Normal resolution
Service Streaming	Service Channel or Remote DVR
SECURITY	
User level	1 admin, 10 users
User privilege	Menu, PTZ, Relay, Playback, Power off, Copy, Network MIC, Camera setup
IP filtering	Supported
STORAGE & BACKUP	
Storage devices	2 internal SATA HDD, 1 external eSATA Interface
RAID Level	Not supported
File system	High-performance proprietary file system Data-loss protection against power interrupt
Capacity	Max. 128TB with eSATA
Backup type	Multi-channel exe file, Single channel avi file, JPEG(Capture)
Backup device	2 USB 3.0 drive (1 rear), 2.0 drive (1 front) FAT32(Max 32GB), NTFS (Min. 1GB)
S.M.A.R.T.	Health checking and alarm, Reallocation sector monitoring and alarm
SERIAL & I/O	
Serial port	1 RS-485
Sensor input	16 Dry-contacts + Sensor of IP Camera
Relay output	4 Relays
CONTROLLER	
Device	IR remote controller, Joystick Keyboard(option), Mouse
SOFTWARE	
HTML5 Webviewer	Monitoring / Event / PTZ / Playback for browser supporting HTML5
Webviewer	Monitoring / Event / PTZ / Playback for IE
Mobile viewer	Monitoring / Playback / Alarm Push / PTZ / Audio / Log View with iPhone & Android
CMS	Control Center, Max. 1024 Units
SDK	ActiveX(COM) SDK
ENVIRONMENTAL & PHYSICAL	
Dimension	380(W) × 267.8(D) × 45(H) mm
Weight	1.8Kg (No HDD)
Operating Temperature	5°C ~ 45°C (41°F ~ 113°F)
Operating Humidity	80% below, free of condensation
Power	DC 12V / 4A (Option : DC 12V / 5A **)
Power Consumption	11.1 W (without HDD)
Approval	KC, FCC, CE

* Scheduled to be supported.

** It is highly recommended to use an option adapter to use a high capacity HDD with a power consumption of 6W or more.
Please refer the HDD's specification for power consumption of HDD.

Analog 5M All-in-one 8 CHANNEL DVR V3

VIDEO INPUT		
Video input Format	BNC	AHD, TVI, CVBS(960H,SD)
	IP(Ethernet)	H.264, H.265
Protocol		WESP, Onvif Profile S (all ch support)
Resolution/Frame Rate	AHD	1920×1080@30fps, 1920x1080@25fps 2560×1440@30fps, 2560x1440@25fps 2560x1944@20fps, 2560x1944@20fps
	TVI	1920×1080@30fps, 1920x1080@25fps 2560×1440@30fps, 2560x1440@25fps 2560x1944@20fps, 2560x1944@20fps
	CVBS(960H)	960×480@60i, 720×480@60i 960×576@50i, 720×576@50i
	IP	1st stream: 1280x720~2048x1536, 3840x2160(*) 2nd stream: max 720x576
Connectors		8ch, 75Ω BNC connector
CoC		Control over Coax@AHD,TVI
VIDEO OUTPUT		
Video output	Resolution	HDMI : 3840×2160(*), 1920×1080 VGA : 1920×1080, 1280x1024, 1024x768 BNC(CVBS) : 720×480, 720×576
	Modes	- HDMI main + VGA spot - HDMI main + CVBS spot - HDMI/VGA Duplicate - HDMI/CVBS Duplicate - HDMI main + VGA(Service Channel) - HDMI main + CVBS(Service Channel)
	BNC(CVBS)	1, 4, 9 split-screen, Switching
RECORDING		
Compression	H.264 / H.265 / JPEG	
Resolution	2560x1944, 2560×1440, 1920×1080, 960×480	
Rate	Total 240 fps, Max 30fps/ch @ 1920x1080 Total 120 fps, Max 15fps/ch @ 2560x1440 Total 80 fps, Max 10fps/ch @ 2560x1944	
Quality	10 levels up to 8Mbps@2M, 12Mbps@4M, 8Mbps@5M	
IP Camera	Same as BNC Camera	
Mode	Normal/Event Record, Schedule/Event Record, Emergency Record	
Schedule	24hrs / 7days	
PLAYBACK		
Mode	Instant Playback / Search	
Speed	Max. 240fps	
Search type	Date/Time, Calendar/Time-line, Event, Thumbnail(Interval/Motion), Text, Bookmark	
Block playback	1day ~ 365days	
EVENT & ALARM		
Event source	Motion detection, Sensor input, Video Loss, Text input, AI, System	
Event check Schedule	24hrs / 7days	
Event action	Relay, Buzzer, E-mail, FTP, Video pop-up, Camera Preset, Mobile Alarm Push, System alarm	
MD area	15x10	
Text input	POS/ATM support, AVE VSI Pro/Hydra support	
SYSTEM ALARM		
Event source	HDD fail, HDD almost full, Password fail, WRS/DDNS fail, Recording Fail	
Event action	Pop-up Message, Buzzer, E-mail, Relay, Mobile Alarm Push	
AUDIO		
Input/output	8 RCA input / HDMI & RCA output	
Compression	G.711	
Direction	Both	

PTZ	
Protocols	HIK-C, AHD, C1080(D1080), C1080PT-Z20, Pelco-D, Pelco-P, Samsung, Panasonic and others
NETWORK	
Interface	1 Fast Ethernet (10/100Mbps)
Type	Static IP, Dynamic IP
DDNS	WNS, DynDNS, NoIP, WRS
Bandwidth limit	0.01 ~ 100Mbps, unlimited
NTP	Server / Client / Both
Users	10 Monitoring, 4 Playback
RTSP	Supported
UPnP	UPnP auto port forwarding
Streaming	H.264 or H.265 stream, High resolution 1 additional H.264 or H.265 stream, Normal resolution 1 JPEG stream, Normal resolution
Service Streaming	Service Channel or Remote DVR
SECURITY	
User level	1 admin, 10 users
User privilege	Menu, PTZ, Relay, Playback, Power off, Copy, Network MIC, Camera setup
IP filtering	Supported
STORAGE & BACKUP	
Storage devices	1 internal SATA HDD, 1 external eSATA Interface
RAID Level	Not supported
File system	High-performance proprietary file system Data-loss protection against power interrupt
Capacity	12TB HDD Supported per SATA Port
Backup type	Multi-channel exe file, Single channel avi file, JPEG(Capture)
Backup device	2 USB 2.0 drive (1 front, 1 rear) FAT32(Max 32GB), NTFS (Min. 1GB)
S.M.A.R.T.	Health checking and alarm, Reallocation sector monitoring and alarm
SERIAL & I/O	
Serial port	1 RS-485
Sensor input	8 Dry-contacts + Sensor of IP Camera
Relay output	2 Relays
CONTROLLER	
Device	IR remote controller, Joystick Keyboard(option), Mouse
SOFTWARE	
HTML5 Webviewer	Monitoring / Event / PTZ / Playback for browser supporting HTML5
Webviewer	Monitoring / Event / PTZ / Playback for IE
Mobile viewer	Monitoring / Playback / Alarm Push / PTZ / Audio / Log View with iPhone & Android
CMS	Control Center, Max. 1024 Units
SDK	ActiveX(COM) SDK
ENVIRONMENTAL & PHYSICAL	
Dimension	300(W) × 249(D) × 45(H) mm
Weight	1.22Kg (No HDD)
Operating Temperature	5°C ~ 45°C (41°F ~ 113°F)
Operating Humidity	80% below, free of condensation
Power	DC 12V / 3A (Option : DC 12V / 5A **)
Power Consumption	4.7W (without HDD)
Approval	KC, FCC, CE

* Scheduled to be supported.

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Please refer the HDD's specification for power consumption of HDD.

Analog 5M All-in-one 4 CHANNEL DVR V3

VIDEO INPUT			
Video input Format	BNC	AHD, TVI, CVBS(960H,SD)	
	IP(Ethernet)	H.264, H.265	
		Protocol	WESP, Onvif Profile S (all ch support)
Resolution/Frame Rate	AHD	1920×1080@30fps, 1920x1080@25fps 2560×1440@30fps, 2560x1440@25fps 2560x1944@20fps, 2560x1944@20fps	
	TVI	1920×1080@30fps, 1920x1080@25fps 2560×1440@30fps, 2560x1440@25fps 2560x1944@20fps, 2560x1944@20fps	
	CVBS(960H)	960×480@60i, 720×480@60i 960×576@50i, 720×576@50i	
	IP	1st stream: 1280x720~2048x1536 2nd stream: max 720x576	
Connectors		4ch, 75Ω BNC connector	
CoC		Control over Coax@AHD,TVI	
VIDEO OUTPUT			
Video output	Resolution	HDMI : 1920×1080 VGA : 1920×1080, 1280x1024, 1024x768 BNC(CVBS) : 720×480, 720×576	
	Modes	<ul style="list-style-type: none"> - HDMI main + VGA spot - HDMI main + CVBS spot - HDMI/VGA Duplicate - HDMI/CVBS Duplicate - HDMI main + VGA(Service Channel) - HDMI main + CVBS(Service Channel) 	
	BNC(CVBS)	1, 4 split-screen, Switching	
RECORDING			
Compression	H.264 / H.265 / JPEG		
Resolution	2560x1944, 2560×1440, 1920×1080, 960×480		
Rate	Total 120 fps, Max 30fps/ch @ 1920x1080 Total 60 fps, Max 15fps/ch @ 2560x1440 Total 40 fps, Max 10fps/ch @ 2560x1944		
Quality	10 levels up to 8Mbps@2M, 12Mbps@4M, 8Mbps@5M		
IP Camera	Same as BNC Camera		
Mode	Normal/Event Record, Schedule/Event Record, Emergency Record		
Schedule	24hrs / 7days		
PLAYBACK			
Mode	Instant Playback / Search		
Speed	Max. 120fps		
Search type	Date/Time, Calendar/Time-line, Event, Thumbnail(Interval/Motion), Text, Bookmark		
Block playback	1day ~ 365days		
EVENT & ALARM			
Event source	Motion detection, Sensor input, Video Loss, Text input, AI, System		
Event check Schedule	24hrs / 7days		
Event action	Relay, Buzzer, E-mail, FTP, Video pop-up, Camera Preset, Mobile Alarm Push, System alarm		
MD area	15x10		
Text input	POS/ATM support, AVE VSI Pro/Hydra support		
SYSTEM ALARM			
Event source	HDD fail, HDD almost full, Password fail, WRS/DDNS fail, Recording Fail		
Event action	Pop-up Message, Buzzer, E-mail, Relay, Mobile Alarm Push		
AUDIO			
Input/output	4 RCA input / HDMI & RCA output		
Compression	G.711		
Direction	Both		

PTZ	
Protocols	HIK-C, AHD, C1080(D1080), C1080PT-Z20, Pelco-D, Pelco-P, Samsung, Panasonic and others
NETWORK	
Interface	1 Fast Ethernet (10/100Mbps)
Type	Static IP, Dynamic IP
DDNS	WNS, DynDNS, NoIP, WRS
Bandwidth limit	0.01 ~ 100Mbps, unlimited
NTP	Server / Client / Both
Users	10 Monitoring, 4 Playback
RTSP	Supported
UPnP	UPnP auto port forwarding
Streaming	H.264 or H.265 stream, High resolution 1 additional H.264 or H.265 stream, Normal resolution 1 JPEG stream, Normal resolution
Service Streaming	Service Channel or Remote DVR
SECURITY	
User level	1 admin, 10 users
User privilege	Menu, PTZ, Relay, Playback, Power off, Copy, Network MIC, Camera setup
IP filtering	Supported
STORAGE & BACKUP	
Storage devices	1 internal SATA HDD
RAID Level	Not supported
File system	High-performance proprietary file system Data-loss protection against power interrupt
Capacity	12TB HDD Supported per SATA Port
Backup type	Multi-channel exe file, Single channel avi file, JPEG(Capture)
Backup device	2 USB 2.0 drive (1 front, 1 rear) FAT32(Max 32GB), NTFS (Min. 1GB)
S.M.A.R.T.	Health checking and alarm, Reallocation sector monitoring and alarm
SERIAL & I/O	
Serial port	1 RS-485
Sensor input	4 Dry-contacts + Sensor of IP Camera
Relay output	1 Relay
CONTROLLER	
Device	IR remote controller, Joystick Keyboard(option), Mouse
SOFTWARE	
HTML5 Webviewer	Monitoring / Event / PTZ / Playback for browser supporting HTML5
Webviewer	Monitoring / Event / PTZ / Playback for IE
Mobile viewer	Monitoring / Playback / Alarm Push / PTZ / Audio / Log View with iPhone & Android
CMS	Control Center, Max. 1024 Units
SDK	ActiveX(COM) SDK
ENVIRONMENTAL & PHYSICAL	
Dimension	300(W) × 249(D) × 45(H) mm
Weight	1.16Kg (No HDD)
Operating Temperature	5°C ~ 45°C (41°F ~ 113°F)
Operating Humidity	80% below, free of condensation
Power	DC 12V / 2A (Option : DC 12V / 5A)
Power Consumption	4W (without HDD)
Approval	KC, FCC, CE

* Scheduled to be supported.