



## Characteristics

- Supports H.264 codec
- Supports 4K display & Dual display
- Up to Max. 5M recording
- All In One - Supports TVI/AHD/CVI/CVBS/IP
- Supports Various IP Camera by ONVIF
- Supports VA - Various Video Analytics function
- Supports CVBS Spot Monitor
- HD monitor and VGA Video Output
- Supports P2P
- Compact Size & easy to install the HDD



## Specification

CHANNELS		16CH	
VIDEO	INPUT SIGNAL	SD(960) / AHD,TVI(HD,FHD)/ 3,4,5M	
	IP HYBRID	MAX. 16CH IP, 2MP@30	
	MAIN MONITOR	HDMI / VGA	
	SPOT OUT	1(CVBS)	
AUDIO	LOOP THROUGH	no	
	INPUT SIGNAL	4CH(10KOhm, 2.8Vpp)	
	OUTPUT SIGNAL	1CH(600Ohm, 2.8Vpp)	
	CODEC	G.711 ulaw	
RECORDING	CODEC	H.264	
	REC. RATE	[Analog] Upto 160FPS@1296x1944(5M Half) Upto 96FPS@2592x1944(5M) Upto 240FPS@1344x1520(4M Half) Upto 240FPS@1280x1440(4M Half) Upto 120FPS@2688x1520(4M) Upto 120FPS@2560x1440(4M) Upto 240FPS@1024x1536(3M Half) Upto 144FPS@1920x1536(3M) Upto 240FPS@ FHD [IP] Upto 480FPS@ FHD Up to 480FPS@ 2CIF Up to 480FPS@ CIF	
	REC. RESOLUTION	CIF, 2CIF, D1, 960H, 720P, 1080P, 3M, 4M, 5M	
	ALARM I/O	ALARM INPUT: 2CH ALARM OUT: 1CH(RELAY)	
	STORAGE	INTERNAL HDD	2EA
		EXTERNAL STORAGE	no
	INTERFACE	INTERNAL ODD	no
USB		2x front	
RS-485		1	
RS-232		-	
LAN		1x 10/100/1000	
POWER	REMOTE CONTROL	YES	
	POWER SUPPLY	12V/3A	
ENVIROMENT	POWER CONSUMPTION	14W max. without HDD	
MONITORING	TEMPERATURE / HUMINITY	0°C ~ 40°C (32°F~104°F) / 10 ~ 90% NC	
	DISPLAY RATE	[Analog] Upto 320FPS@1296x1944(5M Half) Upto 192FPS@2592x1944(5M) Upto 480FPS@1344x1520(4M Half) Upto 480FPS@1280x1440(4M Half) Upto 240FPS@2688x1520(4M) Upto 240FPS@2560x1440(4M) Upto 480FPS@1024x1536(3M Half) Upto 288FPS@1920x1536(3M) Upto 480FPS@ FHD [IP] Upto 480FPS@ FHD	
	DISPLAY RESOLUTION	1920x1080(HD Display, VGA), Dual Display (Mirroring)	
	DISPLAY MODE	1,4,6,8,9,16	
	SEQUENCE	Programmable Sequence	
	DIGITAL ZOOM	YES	
	COVERT CAMERAS	YES	
	CAMERA COLOR CONTROL	YES (CONTRAST, COLOR, TINT, BRIGHTNESS)	
	PTZ CAMERA	YES	
	RECORD	SCHEDULE METHOD	DAILY/WEEKLY EACH HOUR
		PROGRAMMABLE FOR CH	YES
		MANUAL RECORDING	YES
		POST-EVENT RECORDING	5/10/15/20/30/60/180 SEC
EVENT RECORDING		YES	
PRE-EVENT RECORDING		0/1/2/3/4/5/10/15 SEC	
PANIC RECORDING		YES	
EVENT LOGGING		YES (MOTION,ALARM,PANIC,VLOSS)	
SYSTEM LOGGING		YES (SYSTEM ON/OFF, TIME CHANGED, H,DD/EMAIL OPERATIONS, SYSTEM OPERATIONS)	
SETUP LOGGING		YES (SETUP CHANGED)	
SEARCH & PLAYBACK	REMOTE LOGGING	YES (WHO, IP ADDRESS, REMOTE OPERATIONS)	
	PLAYBACK RATE	Same as Recording Rate	
	PLAYBACK SPEED	x1, x2, x4, x8, x16, x32, x64	
ARCHIVING	SEARCH TYPE	CALENDER / EVENT / TIME / THUMBNAIL	
	ARCHIVING DEVICES	USB Memory, FTP	
	REMOTE ARCHIVING	YES (WEB RA, VMS, FTP)	
	SNAPSHOT ARCHIVING	YES	
	DATA RESERVING	YES	
	RESERVED DATA LIST MANAGEMENT	YES	
	BACKUP DATA FORMAT	AVI, RAW	
	WARTERMARK	YES	
	WARTERMARK VARIFICATION	YES	
	ARCHIVED DATA PLAYBACK	YES	
NETWORK	MAX. CONNECTIONS	32 USERS	
	DHCP / DDNS	YES	
	TRANSMISSION RATE	MAX 480 FPS	
	BANDWIDTH CONTROL	YES	
	WEB BROWSER ACCESS	YES	
	REMOTE FUCNTION	REMOTE MONITORING / PLAYBACK / ARCHIVING / SETUP / PTZ CONTROL / HEALTH CHECK	
	VMS SUPPORT	YES	
	TWO-WAY AUDIO	YES	
	PC BASED REMOTE AGENT	YES	
	SMART PHONE APPLICATION	YES (iOS, Android)	
	WEB BASED REMOTE AGENT	YES (WINDOWS®, LINUX, MAC OS/X®, ETC.)	
	SDK	YES (HTTP, RTSP Protocol Base)	
	AUTO ROUTER PORT FORWARDING	YES	
	DUAL STREAMING	YES	
	FTP CLIENT	YES (For ARCHIVING)	
E-MAIL	YES (SMTP CLIENT)		
AUTHORITY CONTROL	ADMIN / MANAGER / USER		
PROTOCOLS	RTP, RTSP, RTCP, SMTP, NTP, HTTP, FTP, DDNS, DHCP, Upnp (Router Port Forwarding)		
EVENT	TYPE	VIDEO LOSS EVENT / EVENT NOTIFICATION / EVENT POPUP / MOTION DETECTION / MOTION SENSOR AREA	