1.3 Specifications

1.3.1 1U Series

	Parameter	4-ch	8-ch	16-ch
System	Main Processor	High-performance industrial embedded micro controller		
	OS	Embedded LINUX		
	System Resources	Multiplex operations: Multiple-channel record, multiple-channel playback and network operation simultaneously		
	Interface	User-friendly graphical user interface		
	Input Devices	Front panel, USB mouse, remote control		
	Input Method	Arabic number, English character, donation and extension Chinese (optional)		
	Shortcut Function	Copy/paste operation, USB mouse right-key shortcut menu, double click USB mouse to switch screen.		
Compression Standard	Video Compressio n	H.264		
	Audio Compressio n	G.711A		
Video monitor	Video Input	4-CH composite video input: (NTSC/PAL) BNC (1.0V$_{P-P}$, 75Ω)	8-CH composite video input: (NTSC/PAL) BNC (1.0V$_{P-P}$, 75Ω)	16-CH composite video input: (NTSC/PAL) BNC (1.0V$_{P-P}$,
	Video Output	1-ch PAL/NTSC, BNC (1.0VP-P, 75Ω) composite video signal output. 1-ch VGA output.		
	Video Standard	PAL (625 line, 50f/s), NTSC (525 line, 60f/s)		
	Record Speed	Real-time Mode: PAL 1f/s to 25f/s per channel and NTSC 1f/s to 30f/s per channel		
	Video Partition	1/4 windows(Optional)	1/4/8/9 windows	1/4/8/9 /16 windows
	Monitor Touring	Support monitor tour functions such as alarm, motion detection, and schedule auto control.		
	Resolution (PAL/NTSC)	PAL/NTSC		
		Playback：		
		Support dual streams: extra stream resolution CIF 352×288/ 352×240, QCIF		
	Image Quality	6-level image quality (Adjustable)		
	Privacy mask	Support one privacy mask of user-defined size in full screen. Support max 4 zones.		
	Image Information	Channel information, time information and privacy mask zone.		
	TV Adjust	Adjust TV output zone suitable to anamorphic video.		
	Channel Lock	Cover secret channel with black screen though system is encoding normally. Screen-lock function to prevent unauthorized user seeing secret video.		
	Channel Information	Channel name, recording status, screen lock status, video loss status and motion detection status are shown on the bottom left of display		
	Color Configuratio n	Hue, brightness, contrast, saturation and gain setup for each channel.		
Audio	Audio Input	4-ch 200-2000mv 10KΩ(BNC)	8-ch 200-2000mv 10KΩ(BNC)	4-ch 200-2000mv 10KΩ (BNC)
	Audio Output	1-ch audio output 200-3000mv 5KΩ(BNC)	1-ch audio output 200-3000mv 5KΩ(BNC)	1-ch audio output 200-3000mv 5KΩ(RCA)
	Bidirectional Audio	1-ch audio talk output 200-3000mv 5K Ω (BNC)	1-ch audio talk output 200-3000mv 5K Ω (BNC)	1-ch audio talk output 200-3000mv 5K Ω (RCA)

Hard disk	Hard Disk	2 built-in SATA port. Support 2 HDDs.
	Hard Disk Occupation	Audio：PCM 28.8MByte/h Video：56-900MByte/h
Record and playback	Recording Mode	Manual recording, motion detection recording, schedule recording and alarm recording
	Recording Length	1 to 120 minutes single record duration (Default setup is 60 minutes)
	Playback Repeat Way	When hard disk is full, system can overwrite previous video file.
	Record Search	Various search engines such as time, type and channel.
	Playback Mode	Various fast play, slow play speeds, manual frame by frame playback and reverse play mode.
	Various File Switch Ways	Can switch to previous or next file or any file in current play list. Can switch to file on other channel of the same time. (If there is a file) Support file continuous play, when a file is end system auto plays the
	Multi- channel Playback	There is 1/4/9/16-channel playback mode. (It may vary due to different series.)
	Window Zoom	Switch between self-adaptive screen/full screen when playback
	Partial Enlargement	When in one-window full-screen playback mode, you can select any zone to activate partial enlargement function.
Backup function	Backup Mode	HDD backup
		Support peripheral USB backup device. (Flash disk, portable disk and etc.)
		Support peripheral USB burner.
		Support network download and backup
Network Function	Network control	View monitor channel remotely.
		DVR configuration through client-end and web browser
		Upgrade via client or browser to realize remote maintenance.
		View alarm information such as external alarm, motion detection and video loss via
		Support network PTZ lens control
		File download backup and playback
		Multiple devices share information via corresponding software such as
		Duplex transparent COM
		Network alarm input and output
		Bidirectional audio.
Motion Detection and Alarm	Motion Detection	Zone setup: support 396((PAL 22×18, NTSC 22×15)) detection zones. Various sensitivity levels.
	Video Loss	Alarm can activate external alarm or screen message prompt.
	External Alarm	Support record activation function or activate external alarm or screen message in specified period.

	Manual Alarm Control	Enable or disable alarm input channel Support analog alarm signal to specific alarm output channel.		
	Alarm Input	4-ch alarm input（You can set normal open or normal close type to select the alarm type. ）	8-ch alarm input（You can set normal open or normal close type to select the alarm type. ）	16-ch alarm input（You can set normal open or normal close type to select the alarm type. ）
	Alarm Output	3-channel relay output.		
	Alarm Relay	30V DC 2A，125VAC 1A（activation alarm ）		

Interface	USB Interface	2 USB 2.0 ports.
	Network connection	RJ45 10M/100M/1000M self-adaptable Ethernet port
	RS485	PTZ control port
	RS232	Ordinary COM (Debug),keyboard connection and transparent serial port(COM
System Information	Hard Disk Information	Display HDD current status
	Data Stream Statistics	Data stream statistics for each channel (in wave mode)
	Log statistics	Backup to 1024 log files.
	Version	Display version information: channel amount, alarm input and output amount,
	On-line user	Display current on-line user

User Management	User Manageme nt	Multi-lever user management; various management modes
		Support user /group and its corresponding rights modification. No limit to the user
	Password Authenticati on	Password modification
		Account lock strategy
Upgrade		Web browser, client-end and update tool.
Login, Logout and Shutdown		Password login protection to guarantee safety
		User-friendly interface when login. Provide the following options: Logout
		Right authentication when shut down to make sure only those proper people can
General Parameter	Power	DC 12V
	Power Consumption	≤25W (With adapter, exclude HDD)
	Working Temperature	0℃－＋55℃
	Working Humidity	10%－90%
	Air Pressure	86kpa－106kpa
	Dimension	1U standard industrial case. 375(W) x280 (D) x50mm(H)
	Weight	1.5-2.5KG(Exclude HDD)
	Installation Mode	Desktop installation