

Surveillance Solutions



Digital Video Recorder Specifications

	Model	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 simultaneous network operation.		
	Interface	User-friendly graphical user interface (GUI)		
	Input Devices	Front panel, USB mouse, remote control		
Compression	Video Compression	H.264		
	Audio Compression	G.711A		
Video	Video Input	4-CH composite video input: (NTSC/PAL) BNC (1.0VB _{P-P} , 75Ω)	8-CH composite video input: (NTSC/PAL) BNC (1.0VB _{P-P} , 75Ω)	16-CH composite video input: (NTSC/PAL) BNC (1.0VB _{P-P} , 75Ω)
	Video Output	1-ch PAL/NTSC, BNC (1.0VP- P, 75Ω) composite video signal output.		
		1-ch VGA output.		
		1-ch HDMI output.		
		Support TV/VGA/HDMI concurrent video 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			
Video Partition	1/4 windows(Optional)	1/4/9 windows	1/4/9 /16 windows	

	Monitor Touring	Support monitor tour functions such as alarm, motion detection, and schedule auto control.	
	Resolution	PAL	
		Real-time monitor :	
		D1 704×576	
		Playback :	
		D1: 704×576; 1f/s to 25f/s per channel	
		CIF: 352×288 ; 1f/s to 25f/s per channel	
		QCIF: 176×144; 1f/s to 25f/s per channel	
		Support dual streams: extra stream resolution CIF: 352x288, QCIF 176×144; 1f/s to 25f/s per channel	
	Motion Detection		Zone setup: support max 396(22×18) zones.
			Support various sensitivities.
	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 (wide-screen).	
	Channel Lock		Cover covert selectable channel with blue screen.
			Screen-lock function to prevent unauthorized user seeing covert 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 screen.		
Color Configuration	Hue, brightness, contrast, saturation and gain setup for each channel.		
Audio	Audio Input	4-ch 200-2000mv 10KΩ(BNC)	
	Audio Output	1-ch audio output 200-3000mv 5KΩ(BNC)	
	Bidirectional Audio	Supports bi-directional communication.	
Record and playback	Hard Disk	1 built-in SATA port. Support 1 HDD. (current maximum 2TB)	
	Recording Mode	Manual recording, motion detection recording, schedule recording and alarm recording	
		Priority: Manual recording> alarm recording>motion detection recording>schedule recording.	
	Hard Disk Overwrite	When hard disk is full, system can overwrite previous video files.	
Record Search	Various search criteria such as time, type and channel.		

	Playback Mode	Various fast play, slow play speeds, manual frame by frame playback and reverse play mode.
	Multi-channel Playback	There are two playback modes: 4-ch and full-channel. In 4-ch playback mode, you can select the 1/2/3/4-ch playback according to your requirement. In full-channel mode, system displays video recordings in full-screen mode.
	Window Zoom	Switch between self-adaptive screen and full screen when viewing playback.
	Partial Zoom	When in one-window full-screen playback mode, you can select any zone of the video recording to zoom-in digitally.
HDD Backup	HDD Backup	Support peripheral USB backup device. (Flash disk, external hdd)
		Support USB burner
		Support network download and backup
		Support NAS (Network Attached Storage) and FTP (File Transfer Protocol)
Network Function	Network control	View live video and recordings. Stream live video over the internet.
		DVR configuration through client-end software and web browser.
		Upgrade via client or browser for remote maintenance.
		View alarm information such as external alarm, motion detection and video loss via client or web server.
		IP Client filter for increased security.
		Supports network PTZ control.
		File download, file backup, config backup and playback.
		Professional Surveillance Software supports the monitoring and configuration of up to 100 DVR's.
		Duplex transparent COM
		Network alarm input and output.
Bidirectional audio.		
Alarms	Motion Detection	Zone setup: support 396(PAL 22×18, NTSC 22×15) detection zones.
		Various sensitivity levels.
		Motion alarms can activate recording, send email messages, activate relay outputs or dial-back to remote monitoring software.
	Video Loss	Alarms can activate external sirens or display message prompts.
	External Alarm	Support recording can activate recording, send email messages, activate relay outputs or dial-back to remote monitoring software.
Manual Alarm Control	Enable or disable alarm input channels.	
	Supports analog alarm signals to specific alarm output channels.	

	Alarm Input	4-ch alarm input	8-ch alarm input	16-ch alarm input
	Alarm Output	3-channel relay output.		
	Alarm Relay	30VDC 2A, 125VAC 1A (activation alarm)		
Interface	USB Interface	2 USB 2.0 ports.		
	Network connection	RJ45 10M/100M self-adaptable Ethernet port.		
	RS485	PTZ control port.		
		Support various PTZ control protocols.		
RS232	Ordinary COM (Debug), keyboard connection and transparent serial port (COM input and output via network).			
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 for audit trails.		
		Supports various search engines such as date, time and type.		
	Version	Displays version information: channel availability, alarm input and output amounts, system version and release date.		
On-line user	Displays current on-line user.			
User Management	User Management	Multi-lever user management; various management modes.		
		Integrated management for local user, serial port user and network user.		
		Full configurable user power including camera viewing rights, setup rights, playback rights .		
		Supports user groups and the corresponding rights modifications.		
		No limit to the user or group amount.		
	Password Authentication	Password modification		
		Administrator can modify other user's password.		
		Accounts lock strategy optional.		
		Five times login failure in thirty minutes may result in account lock.		
Upgrade	Upgrade	Web browser, client-end and update tool.		
Login, Logout and Shutdown	Login, Logout and Shutdown	Password login protection to guarantee site security.		
		User-friendly interface for logins. Logout /shutdown/ restart.		
		Rights authentication checked for system shut-downs.		
General	Power	DC +12V/3.3A		

Parameter		
	Power Consumption	12W (Exclude HDD)
	Working Temperature	0°C – + 55°C
	Working Humidity	10% – 90%
	Air Pressure	86kpa – 106kpa
	Dimension	375 x285 x45mm
	Weight	3.25KG(Exclude HDD)
	Installation Mode	Desktop installation, Rack-Mount