



### Features

- H.264 real-time Full D1 live ,D1 120 FPS recording and playback .
- VGA outputs at 1920 \* 1080i, built-in 3D intellectual motion adoptive refinement and vivid image enhancement engines.
- HTTP web-based interface including DVR configuration, PTZ control, playback, and live monitoring.
- Concurrent multiple channel playback for 16-channel.
- 3G mobile phone solutions provided.
- Resolution, frame rate, and video quality configurable for each channel.
- LCD Power saving design.
- Support Free CMX

Model	DVR216A
Recording	SATA HDD: internal * 2
Recording mode	External alarm / motion detection / schedule/ manual
Video source	Analog * 16
Resolution	Full D1: 720 * 576 (PAL) 720*480 (NTSC) / CIF: 320 * 288 (PAL) 320 * 240 (NTSC)
Recording	D1 120 / CIF 480 FPS (NTSC) / D1 100 / CIF 400 FPS (PAL)
Schedule	7 day * 24 hrs time table, recording mode configurable
Backup	USB 2.0 flash disk / HTTP file download / Audio supported
DVD/RW	External USB DVD/RW
Playback	H.264 AVC video
Speed	FR: 2x, 4x, 6x / FF: 2x, 4x, 6x
Compression	H.264 AVC and JPEG
Video Input	Analog cameras
Camera Name	12 characters
Live video	PAL: 400 FPS / NTSC: 480 FPS
Video Output	BNC * 1 + Spot monitor
VGA output	3D intellectual motion adoptive refinement with vivid image enhancement VGA engine up to 1920 * 1080i
Backlight saving	LCD backlight saving mode
Multiplexer	Sequence / digital zoom / freeze
Digital zoom	-
Split screen	4, 9, 16
Spot monitor	Yes
Matrix	Control DVR and IP Fast Dome via TCP/IP by multiple keyboards
Reports	Full alarm, configuration, and operation reports exporting over HTTP or USB
Authentication	User authentication with feature configurable
Recording day	Dynamic recording day calculation
Alarm/event	D1 * 8 and DO * 2 (NO/NC)
Motion	Motion grid 44*36 each channel, 8 sensitivities
Event	External alarm, video loss, stop recording, power recovering, motion detection, schedule, logon, HDD format
Email	Alarm notification with JPEG attachments
Accessories	Remote controller addressable up to 255 DVRs
P/T/Z protocol	LILIN MLP2 and Pelco RS-485
Keyboards	PIH-931 keyboard
IR receiver	Extra IR extension connector, up to 200 m
Mouse (Optional)	USB / PS-2, drag-n-drop, right-mouse click, mouse wheel.
Audio	G.711 audio, 0.7Vp-p, 300 Hz to 3KHz
Audio In/out	RCA 4 in., 1 output
Remote control	Yes
Network	Direct Internet browser access / multiple users access
Protocols	ARP / TCP/IP / UDP / HTTP / SMTP / FTP / DDNS / PPPoE / DNS / NTP
Web	Live / event log & time search playback / AVI / snapshot
DVR status	HTML DVR status
IPScan	IPScan supported, easy-to-setup for IP address
BackupManager	Multiple DVRs FTP file download and multichannel playback
Mobile phone	iPhone, and Android mobile phone supported
WDT	Hardware watchdog timer
DST	Daylight saving time
Multilanguage	English, Chinese, Spanish, Danish, Swiss, Norwegian, Arabic, Japanese, German, French, Polish, Portuguese, Simplified Chinese, Vietnamese, Italian
CPU/OS	32-bit RISC Processor, ARM926 SoC 336 MHz, Linux 2.6 kernel
Power	DC 12V, 5.0A, 60W
Working Env.	Temp: 0°C ~ +50°C / Humidity: 0%~80%
Dimension	360mm * 60mm * 308mm
Weight	3.0 Kg

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## Home Series Product Camera Series

ES-916 ES-920 ES-930 ES-968  
ES-916H ES-920H ES-930H ES-968H

## DVR Series

DVR204A DVR208A DVR216A





## Camera Series

### ES-916 | ES-916H

#### INFRARED CAMERA

##### Features :

- Avoid IR Reflection to Provide Perfect Video
- Adopt "Special Optical Low Pass filter"
- High Efficiency IR LED: Radiant Distance 16M
- Automatically Activates LED: Below 10 Lux
- High Sensitivity Sensor, Excellent Picture Quality



### ES-920 | ES-920H

#### INFRARED CAMERA

##### Features :

- Adopt "Special Optical Low Pass Filter"
- High Efficiency IR LED: Radiant Distance 20M
- Automatically Activates LED: Below 10 Lux
- Aluminum Housing with IP 68 Rating
- High Sensitivity Sensor, Excellent Picture Quality



### ES-930 | ES-930H

#### D/N VARI-FOCAL INFRARED CAMERA

##### Features :

- Radiant Distance Up to 30M
- Cable Managed Housing and Bracket
- High Sensitivity CCD Sensor
- Perfect Solution for Day / Night Applications
- IP66 Weather Rating
- Automatically Activates LED: Below 10 Lux

### ES-968 | ES-968H

#### COLOR MINI DOME CAMERA

##### Features :

- RCA Video Connector for Easy Adjustment on Site
- 3-Axis Camera Construction
- Optically Perfect Impact and Dust Resistant Polycarbonate Dome Cover
- Special Circuit to Avoid Color Rolling
- Screw-on Design Dome Cover

Name	INFRARED CAMERA					D/N VARI-FOCAL INFRARED CAMERA		COLOR MINI DOME CAMERA			
Model No	380TVL	ES-916N/P	ES-916N6/P6	ES-920N/P	ES-920N6/P6	ES-930N/P		ES-968N/P	ES-968N6/P6	-	
	540TVL	ES-916HN/P	ES-916HN6/P6	ES-920HN/P	ES-920HN6/P6	ES-930HN/P		ES-968HN/P	ES-968HN6/P6	ES-968HX2.2N/P	
Lens	Focal Length	3.6mm	6.0mm	3.6mm	6.0mm	4~9mm		3.6mm	6.0mm	4~9mm	
	Iris	F2.0	F1.8	F2.0	F1.8	F1.6		F2.0	F1.8	F1.4	
	Angle of view	H	73°	44.5°	73°	44.5°	69°~30.7°		73°	44.5°	69°~30.7°
		V	54.5°	33.1°	54.5°	33.1°	51°~23°		54.5°	33.1°	51°~23°
	D	92°	56°	92°	56°	86°~38.5°		92°	56°	86°~38.5°	
Power Input Voltage	DC12V(±10%)										
System	NTSC or PAL										
Sync. Mode	Internal										
Pick Up Element	1/3" Interline Transfer CCD Sensor										
Effective Pixels	380TVL	512(H)x492(V) [NTSC] / 512(H)x582(V) [PAL]									
	540TVL	768(H)x494(V) [NTSC] / 752(H)x582(V) [PAL]									
Chip Size	5.59(H)x4.68(V)mm										
Horizontal & Vertical	15.734KHz / 59.94Hz[NTSC]										
Sync. Frequency	15.625KHz / 50Hz[PAL]										
Scanning System	2:1 Interlace										
Resolution	380 TV Lines / 540TV Lines							540TV Lines			
Minimum Illumination	380TVL	0.2 Lux(F2.0 / F1.8), 0 Lux(IR ON)		0.2 Lux (F2.0 / F1.8), 0 Lux (IR ON)		0.1 Lux (F1.6), 0 Lux (IR ON)		0.2 Lux(F2.0 / F1.8)		-	
	540TVL	0.5 Lux(F2.0 / F1.8), 0 Lux(IR ON)		0.5 Lux (F2.0 / F1.8), 0 Lux (IR ON)		0.3 Lux (F1.6), 0 Lux (IR ON)		0.5 Lux(F2.0 / F1.8)		0.05 Lux(F1.4)	
S/N Ratio	More Than 50dB (AGC OFF)										
Electronic Auto Gain Control	36dB Variable Gain										
White Balance	ATW										
Aperture Correction	Horizontal, Vertical										
Power Consumption	3.0W		4.8W		5.8W		2.2W				
Shutter	1/60(1/50)S~1/100,000S(Auto)										
Back Light Compensation	Auto										
Video Output	CVBS1.0Vp-p, 750hm										
Gamma Characteristic	γ=0.45										
IP Rating			IP68		IP66						
	Peak Wavelength		850nm		850nm		850nm				
	Beam Spread		30°		30°		30°				
Infrared LED	Radiant Distance		16M		20M		30M				
	Operating Temperature										
	-10°C ~ +50°C (14°F ~ 122°F)										
Dimension	Ø 93x74mm(H)		78(W)x66.5(H)x88(D)mm		Body: 82(W)x72.5(H)x154(D)mm Bracket: 101(L)mm		Dome: Ø98, Base & Fix Ring: Ø112x40.5mm(H)				
Weight	230g		340g		500g		250g		270g		

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## DVR Series

##### Features :

- H.264 technology, recording resolution up to 720x480 D1 resolutions
- Multi motion detection areas
- Pentaplex function support: Live / Record / Playback / Network / Mobile Phone
- Adjustable VGA resolution output setting
- Unlimited zoom range by zoom in capability on selected area under live view and playback mode at anytime
- Support Host USB backup
- Support external USB DVD burner
- D1 resolution image for mobile surveillance
- Remote backup and playback via IE browser.



Model	DVR204A	DVR208A
Video Input	4 CH Input / BNC	8 CH Input / BNC
Audio Input	4 CH Input / RCA	4 CH Input / RCA
Video Output	1CH Output / BNC	1CH Output / BNC
Audio Output	1CH Output / RCA	1CH Output / RCA
XGA Output	800x600、1024x768、1280x1024、1440x900	
Alarm Input	4CH Alarm In	
Alarm Output	Buzzer、1 x Relay Out (N.O、N.C)	
Display Mode	Full Screen, 4CH Split Screen, Auto Switch, Picture in Picture	Full Screen, 4/8CH Split Screen, Auto Switch, Picture in Picture
Display Resolution	Highest	720 x 480(NTSC) 720 x 576(PAL)
	High	720 x 480(NTSC) 720 x 576(PAL)
	Normal	720 x 240(NTSC) 720 x 288(PAL)
Recording Frame	Max. 120 FPS(NTSC) / Max. 100 FPS(PAL)	Max. 240 FPS(NTSC) / Max. 200 FPS(PAL)
Compression Algorithm	H.264	
Operating System	Embedded Linux	
Pentaplex	Live / Record / Playback / Network / Mobile Phone	
Recording Mode	Manual, Schedule, Event	
Schedule Recording	Full Recording, Motion, Alarm, Manual Recording	
Status Indicator	Power, Network, HDD1, HDD2 Alarm Alarm Trigger, Motion Trigger, Video Loss	
Event Mode	Recording Duration: 10~60 sec.	
	Normal Speed: x1	
Playback Mode	Fast Forward: x2 / x4 / x8 / x16 / x32 multiple speed	
	Fast Rewind: x2 / x4 / x8 / x16 / x32	
	Frame by Frame Playback: Forward	
	Search Function: Time / Event	
Network Protocol	TCP/IP / PPPoE / DHCP / SMTP / DDNS	
HDD Type	SATA 3.5"HDD x 1	SATA 3.5"HDD x 2
HDD Management	Automatic Format System	
PTZ Control	Communication Protocol (LILIN MLP2, PELCO P, PELCO D)	
Backup Device	USB 2.0 Flash Memory Stick	
Firmware Update	Host USB	
Multi-Language	English / Chinese / Others	
Control Mode	Front Panel / Remote Control / USB Mouse / Internet	
Network Control	IE Browser	
Network Function	Live Display / Playback / PTZ Control / System Setup	
Power Supply	DC 12V / 4.16A(AC100V~240V 50/60HZ)	
Unit Dimension	290mm (W)x 260mm (D) x 52 (H) mm	360mm (W) x 308mm (D) x 60mm (H)
Weight	1.5kg	3kg
Operating Temperature	0°C ~ 46°C	

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