



# LRN-1610S

16CH 5MP H.265 NVR with PoE Switch



## Key Features

- Up to 16CH 5MP
- H.265, H.264, MJPEG codec
- 100Mbps network camera recording
- Plug & play by 16 PoE ports
- Up to 2 SATA (12TB)
- HDMI local monitor
- P2P service (QR code connect)

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## Specifications

Display		
Network camera	Inputs	Max. 16CH
	Resolution	5MP ~ CIF
	Protocols	Wisenet, ONVIF
Decoding	Local Display	HDMI: 1920x1080, 1280x720
	Resolution	5MP(90fps), 3MP(120fps), 2MP(2400fps), 720p(480fps), D1(480fps)
Performance		
Record	Compression	H.265, H.264, MJPEG
	Recording Bandwidth	Max. 100Mbps
	Resolution	5MP ~ CIF
	Mode	Normal, Schedule(Continuous/Event), Event (Pre/Post), Dual track Recording
	Event Trigger	Alarm Input, Video Loss, Camera Event(Alarm, MD, Video Analytics, Defocus)
	Event Action	e-Mail, PTZ Preset, Buzzer, Monitor Out
Search & Play	Playback Bandwidth	Max. 32Mbps(16CH simultaneously)
	User	Max. 4 Users (Local 1, Remote 3)
	Simultaneous playback	Max. 16CH(Network) Max. 8CH(Local Monitor)
	Fisheye Dewarping	WEB / CMS / Mobile
Storage	Supported HDD	Up to 6TB
	HDD Slot	SATA 2ea(Max. 12TB)
Backup	File backup	BU/Exe(GUI), JPG/AVI(Network)
	Function	Multi channel(Upto 8CH) Play, Date-Time/Title display
Network		
Protocol	IPv4, IPv6, TCP/IP, UDP/IP, RTP (UDP), RTP (TCP), RTSP, NTP, HTTP, DHCP (Server, Client), PPPoE, SMTP, ICMP, IGMP, ARP, DNS, DDNS, uPnP, HTTPS, SNMP, ONVIF (Profile-S), SUNAPI(Server, Client)	
DDNS	Wisenet DDNS	
Audio	Input/Output	16CH(network)
	Compression	G.711, G.726, AAC(16/48KHz)
	Audio Communication	2-Way
Max Remote Users	Search(3), Live Unicast(10), Multicast(20)	
Security	HTTPS(SSL) Login Authentication Digest Login Authentication IP Address Filtering User access log 802.1X Authentication(EAP-TLS, EAP-LEAP) Device Certificate(Hanwha Techwin Root CA)	
Viewer Software	SSM, Webviewer, Smart Viewer, Wisenet mobile Support SDK/CGI(SUNAPI) for integration to 3'd party VMS	

Design and specifications are subject to change without notice. The latest product information / specification can be found at [HanwhaVision.com](http://HanwhaVision.com)

Hanwha Vision is formerly known as Hanwha Techwin.

Functions		
Camera Setup	Item	IP address, Add profile edit, Bitrate, Compression, GOP, Quality, Camera MD setup, Wisestream, Dynamic GOV/FPS, VA Setup Camera video setup (Simple focus, Brightness/Contrast, Flip/Mirror, IRIS, WDR, D&N, SSNR, Shutter, SSSR, DIS), Fisheye Dewarping Mode, Hallway View Setup, Camera Webpage
PTZ	Control	Via GUI, Webviewer
Smart phone	Support Model	iOS, Android
	Protocol Support	RTP, RTSP, HTTP, HTTPS, CGI(SUNAPI)
	Control	Live(Multi-Profile Support), Playback
	Max. Remote Users	Search(3), Live Unicast(10)
Redundancy	ARB	Support
Easy configuration	P2P(QR code)	
Interface		
HDMI	1EA	
Ethernet	RJ-45(10/100/1000BASE-T) x 1 RJ-45(PoE+) x 16	
USB	2EA(Front 1, Rear 1)	
Power inlet	AC 1EA	
System		
System Control	Mouse, IR remocon, Web	
Language	English, French, German, Italian, Spanish, Russian, Turkish, Polish, Dutch, Swedish, Czech, Portuguese, Danish, Rumanian, Serbian, Croatian, Hungarian, Greek, Norwegian, Finnish, Korean, Chinese, Japanese, Thai, Vietnamese	
Environmental		
Operating Temperature	0°C to +40°C(32°F to 104°F)	
Operating Humidity	20% ~ 85% RH	
Electrical		
Power Input	100~240VAC±10%	
Power Consumption	Max. 158.2W(2HDDs, PoE on) Max. 34.6W(2HDDs, PoE off)	
PoE Budget	Max. 130W	
Mechanical		
Color / Material	Black / Metal	
Dimension (WxHxD)	W370.0 x H44.0 x D320 mm (14.57" x 1.73" x 12.6") (1U)	
Weight	2.79Kg (6.15lb)	