

ARN-1610S

16 CH PoE NVR

Key Features

- Up to 16 channels @ 8MP supported
- H.265, H.264, MJPEG codec
- 80Mbps network camera recording
- Plug & play, 16 PoE ports (LAN) & 1 RJ-45 (WAN)
- Maximum 2 HDDs (up to 6TB each)
- HDMI/VGA video outputs
- ARB Support
- P2P service (QR code connect) for easy remote access with Wisenet Viewer & Wisenet Mobile
- Dual track recording, 4K HDMI monitor out

Design and specifications are subject to change without notice. The latest product information / specification can be found at HanwhaVision.com
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16 CH PoE NVR



Specifications

Display

Network camera	Inputs	Max. 16CH
	Resolution	8MP ~ CIF
	Protocols	SUNAPI, ONVIF
Decoding	Local Display	HDMI, VGA(Clone)
	Multi Screen Display	[Local Monitor] 1/ 2V/ 2H/ 3V/ 4/ 6/ 8/ 9/ 13/ 16/ Sequence [Web] 1/ 2H/ 2V/ 3V/ 4/ 6/ 8/ 9
	Resolution	[Local Monitor] 8M(30fps), 1080p(4ch@30fps), 720P(4ch@30fps), D1(4ch@30fps)

Performance

Operating System	Embedded	Linux
Record	Compression	H.265, H.264, MJPEG
	Recording Bandwidth	Max, 80Mbps
	Resolution	8MP ~ CIF
	Mode	Normal, Dual Stream, Schedule(Continuous/Event), Event (Pre/Post), Bookmark
	Event Trigger	Alarm Input, Video Loss, Camera Event(Sensor, MD, Video Analytics, Defocus, Audio), Dynamic Event
	Event Action	e-Mail, Event Push, PTZ Preset, Alarm Out, Buzzer, Monitor Out
Search & Play	Playback Bandwidth	Max. 32Mbps
	User	Max. 4 Users (Local 1, Remote 3)
	Simultaneous playback	Max. 16CH(Local 4CH, Remote 4CH per user)
	Mode	Date & Time(Calendar), Event list, Text Search, Smart Search
	Resolution	CIF ~ 8MP
	Playback Control	Fast/Slow Forward / Backward, Move one step Up / Down
Storage	Supported HDD	Up to 6TB
	HDD Slot	SATA 2ea(Max 12TB)
Backup	File backup	BU/Exe(GUI), JPG/AVI(Network)
	Function	Multi channel(Up to 4CH) Play, Date-Time/Title display

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Network

Protocol		IPv4, IPv6, TCP/IP, UDP/IP, RTP (UDP), RTP (TCP), RTSP, NTP, HTTP, DHCP (Server, Client), SMTP, ICMP, IGMP, ARP, DNS, DDNS, uPnP, HTTPS, SNMP, ONVIF (Profile-S), SUNAPI(Server, Client)
DDNS		Hanwha DDNS
Transmission Bandwidth		Max. 80Mbps
Audio	Input/Output	16 CH(network)
	Compression	G.711, G.726, AAC(16/48KHz)
	Audio Communication	2-Way
Max Remote Users		Search(3), Live Unicast(10), Multicast(20)
Security		IP address filtering, User access Log, 802.1x, Encryption Device certificate(Hanwha Techwin Root CA), Signed firmware
Web viewer	Supported OS	Windows 10, macOS 10.13
	Supported browser	Google Chrome, Microsoft Edge, Mac Safari
Viewer Software		WAVE, SSM, Webviewer, Wisenet Viewer, Wisenet mobile Support CGI(SUNAPI) for integration to 3'rd party VMS

Function

Camera Setup	Register	Auto, Manual
	Item	IP address, Add profile edit, Bitrate, Compression, GOP, Quality, Camera MD setup (4, 8 point polygon) Camera video setup (Simple focus, Brightness/Contrast, Flip/Mirror, IRIS, WDR, D&N, SSNR, Shutter, SSDR, DIS),, Fisheye Dewarping Mode, Hallway View Setup, Camera Webpage
PTZ	Control	Via GUI, Webviewer
	Preset	300 Presets
Smart phone	Support Model	iOS, Android
	Protocol Support	RTP, RTSP, HTTP, CGI(SUNAPI)
	Control	Live 4CH(Multi-Profile Support), Playback 4CH
	Max. Remote Users	Search(3), Live Unicast(10)
Redundancy	Failover	N+1
	ARB	Support
Easy configuration		P2P(QR code)

Interface

Front	Indicator	Power, Record, Network
Reset		Support
HDMI		1EA 3840x2160 30Hz
VGA		1920x1080 30Hz
Ethernet		PoE RJ-45(LAN, 10/100) 16ea ,RJ-45 1ea (WAN, 1Gbps)
USB		2EA(Front 2 x USB2.0)
Power inlet		SMPS

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System

Log	Log List	Max. 100,000 (System Log, Event Log each)
System Control		Mouse, 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 ~ 240 VAC ±10%, 50/60Hz
Power Consumption	Max. 188.2W (2HDD, PoE On)
Power Consumption w/o PoE	35W
PoE Budget	130W

Mechanical

Color / Material	Black / Metal
Dimension	370.0 x 44.0 x 320.0 mm (14.57 x 1.73 x 12.60 inch) (1U)
Weight	2.88Kg(6.35lb)

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