ARN-1610S

16CH NVR

Key Features

- Up to 16CH, 8MP camera supported
- H.265, H.264, MJPEG codec
- 80Mbps network camera recording
- Plug & play by 16 PoE (LAN, 10/100), 1 RJ-45(WAN, 1Gbps)
- Supported HDD (Maximum 6TB)
- HDMI / VGA local monitor
- ARB supported
- P2P service (QR code connect) support

Design and specifications are subject to change without notice. The latest product information / specification can be found at hanwha-security.com

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16CH 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/ 2V/ 2H/ 3V/ 4/ 6/ 8/ 9
	Resolution	[Local Monitor] 8M(30fps), 1080p(120fps), 720P(120fps), D1(120fps)

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

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

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Functions

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) 16 ea ,RJ-45 1ea (WAN, 1Gbps)
USB		2EA(Front 2 x USB 2.0)
Power inlet		SMPS

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%; 50/60 Hz
Power Consumption	Max 188.2W (2HDD, PoE On)
PoE Budget	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	2.88Kg

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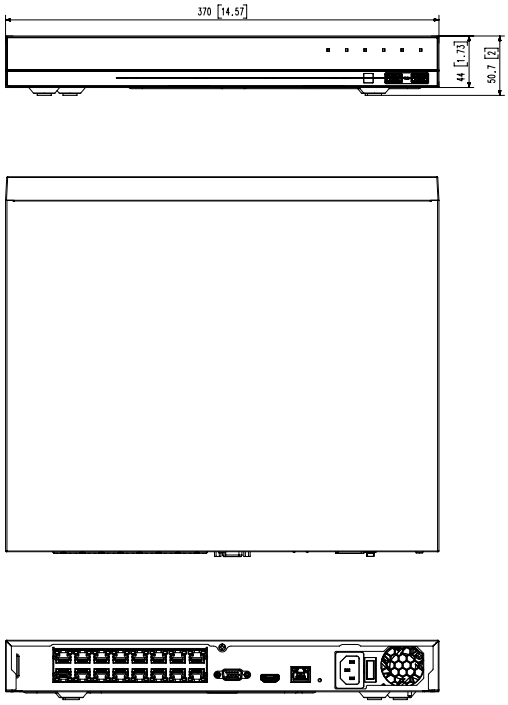
CAD

Unit: mm [inch]



3		
2		
1	ARN-1610S	'21.11.12
No.	MODEL NAME	DATE
Unit:mm[inch]	SCALE:1/2	Hanwha Techwin

A2

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