



## QRN-1620S

16CH 8MP NVR with PoE switch



### Key Features

- Up to 16CH 8MP resolution
- H.265, H.264, MJPEG codec
- WiseStream support
- 128Mbps network camera recording
- Dual track recording
- Plug & play by 16 PoE port
- Max. 2 HDDs(Up to 12TB)
- HDMI, VGA output
- P2P service(QR code)

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## Specifications

### Display

Network camera	<b>Inputs</b>	Max. 16CH
	<b>Resolution</b>	8MP ~ CIF
	<b>Protocols</b>	Wisenet, ONVIF
Decoding	<b>Local Display</b>	[Dual Clone mode display] HDMI: 3840 x 2160, 1920x1080, 1280x720 VGA: 1920x1080, 1280x720
	<b>Multi Screen Display</b>	[Local Monitor] 1 / 2V / 3V / 4 / 9 / 16 Sequence
	<b>Resolution</b>	8MP(60fps), 5MP(90fps), 3MP(120fps), 2MP(240fps), 720p(480fps), D1(480fps)

### Performance

Operating System	<b>Embedded</b>	Linux
Record	<b>Compression</b>	H.265, H.264, MJPEG
	<b>Recording Bandwidth</b>	Max. 128Mbps
	<b>Resolution</b>	8MP ~ CIF
	<b>Mode</b>	Normal, Schedule(Continuous/Event), Event (Pre/Post), Dual track Recording
	<b>Event Trigger</b>	Alarm Input, Video Loss, Camera Event(Alarm, MD, Video Analytics, Defocus)
	<b>Event Action</b>	e-Mail, PTZ Preset, Alarm Out, Buzzer, Monitor Out
Search & Play	<b>Playback Bandwidth</b>	Max. 32Mbps(16CH simultaneously)
	<b>User</b>	Max. 4 Users (Local 1, Remote 3)
	<b>Simultaneous playback</b>	Max. 28CH(Local Monitor 16CH, Remote 4CH per user)
	<b>Fisheye Dewarping</b>	WEB / CMS / Mobile
	<b>Mode</b>	Date & Time(Calendar), Event Log list, Text Search, Smart Search
	<b>Resolution</b>	8MP ~ CIF
	<b>Playback Control</b>	Fast/Slow Forward / Backward, Move one step Up / Down
Storage	<b>Supported HDD</b>	Up to 6TB
	<b>HDD Slot</b>	SATA 2ea(Max. 12TB)
Backup	<b>File backup</b>	BU/Exe(GUI), JPG/AVI(Network)
	<b>Function</b>	Multi channel(Up to 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	Hanwha DDNS	
Transmission Bandwidth	Max. 128Mbps	
Audio	<b>Input/Output</b>	16CH(network)
	<b>Compression</b>	G.711, G.726, AAC(16/48KHz)
	<b>Audio Communication</b>	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)	

<b>Viewer Software</b>	WAVE, SSM, Webviewer, Smart Viewer, Wisenet mobile Support SDK/CGI(SUNAPI) for integration to 3'rd party VMS
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## Functions

<b>Camera Setup</b>	<b>Register</b>	Auto, Manual
	<b>Item</b>	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, SSSDR, DIS), Fisheye Dewarping Mode, Hallway View Setup, Camera Webpage
<b>PTZ</b>	<b>Control</b>	Via GUI, Webviewer
<b>Smart phone</b>	<b>Support Model</b>	iOS, Android
	<b>Protocol Support</b>	RTP, RTSP, HTTP, HTTPS, CGI(SUNAPI)
	<b>Control</b>	Live(Multi-Profile Support), Playback
	<b>Max. Remote Users</b>	Search(3), Live Unicast(10)
<b>Redundancy</b>	<b>ARB</b>	Support
<b>Easy configuration</b>		P2P(QR code)

## Interface

<b>HDMI</b>	1EA
<b>VGA</b>	1EA
<b>Audio</b>	Out(1EA, RCA, Line)
<b>Ethernet</b>	RJ-45(10/100/1000BASE-T) x 1 RJ-45(PoE+) x 16
<b>Alarm</b>	In 4EA, Out 2EA
<b>USB</b>	2EA(Front 2)
<b>Power inlet</b>	AC 1EA

## System

<b>System Control</b>	Mouse, IR remocon, Web
<b>Language</b>	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

<b>Operating Temperature</b>	0°C to +40°C(32°F to 104°F)
<b>Operating Humidity</b>	20% ~ 85% RH

## Electrical

<b>Power Input</b>	100~240VAC ± 10%
<b>Power Consumption</b>	Max. 158.2W(2HDDs, PoE on) Max. 34.6W(2HDDs, PoE off)
<b>PoE Budget</b>	Max. 130W

## Mechanical

<b>Color / Material</b>	Black / Metal
<b>Dimension (WxHxD)</b>	W370.0 x H44.0 x D320 mm (14.57" x 1.73" x 12.6") (1U)
<b>Weight</b>	2.79Kg (6.15lb)

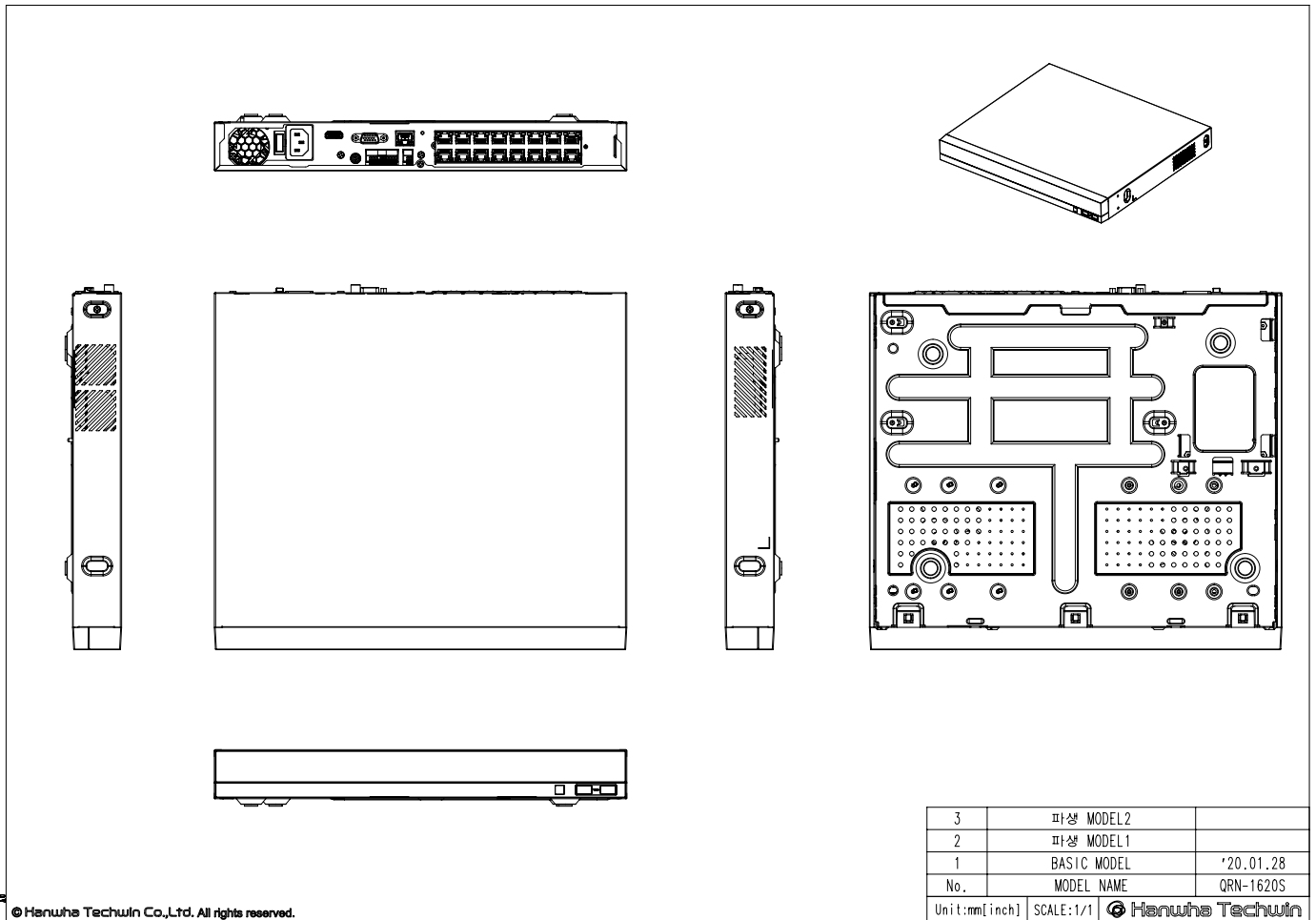
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CAD

Unit: mm [inch]



3	파생 MODEL 2	
2	파생 MODEL 1	
1	BASIC MODEL	'20.01.28
No.	MODEL NAME	QRN-1620S
Unit:mm[inch]		SCALE:1/1 Hanwha Techwin

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