



## XRN-3220B2

32CH NVR with 12th gen. Intel® Processor



### Key Features

- 32CH, 32MP resolution
- SATA 8 HDD Bays (up to 80TB)
- Up to 520Mbps recording / transmission bandwidth
- Easy Channel/Event/Alarm configuration
- Virtual Channel View
- Dynamic layout
- Built-in Support for Web Management (up to 100)
- Compatible with Wisenet Viewer, Wisenet mobile
- NDA compliant and TPM integrated
- Manual event support

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## Specifications

Display		
Network camera	Inputs	Max. 32CH
	Resolution	32MP ~ CIF
	Protocols	SUNAPI, ONVIF
Decoding	Local Display	[Dual Display] HDMI 1: 3840 x 2160 (30Hz) HDMI 2: 1920x1080 (60Hz)
	Multi Screen Display	[Local Monitor] - Dynamic layout, Virtual channel view - Clone Mode : Up to 64 Division - Expand Mode : HDMI1 up to 32 Div. HDMI2 up to 32 Div. [Web] 1/ 2H/ 2V/ 3V/ 4/ 6/ 8/ 9
	Resolution	32M(15fps, H.265 Only), 12M(30fps, H.265 Only), 8.3M(4ch@30fps), 1080p(16ch@30fps), 720P(32ch@30fps), D1(48ch@30fps)
Performance		
Operating System	Embedded	Linux
Record	Compression	H.265, H.264, MJPEG
	Recording Bandwidth	Distributed mode : Up to 520 Mbps, Normal mode : Up to 300 Mbps
	Resolution	32MP ~ 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, User Event
	Event Action	e-Mail, Event Push, PTZ Preset, Alarm Out, Buzzer, Monitor Out, FTP, SUNAPI Command, Shutdown
Search & Play	Playback Bandwidth	Up to 200Mbps(32CH simultaneously)
	User	Max. 4 Users (Local 1, Remote 3)
	Simultaneous playback	Max. 80CH(Local 32CH, Remote 16CH per user)
	Fisheye Dewarping	Support (Local 1CH), CMS
	Mode	Time/Event/Text/ARB/Bookmark/Smart search
	Resolution	CIF ~ 32MP (Up to H.264 9MP, H.265 32MP)
	Playback Control	Fast/Slow Forward / Backward, Move one step Up / Down
Storage	Supported HDD	Up to 10TB
	HDD Slot	SATA 8ea(Max. 80TB)
	External	iSCSI storage

## Performance

<b>Backup</b>	File backup	Recorder/SEC/AVI/JPG(Local), AVI/PNG(Network)
	Function	Multi channel(Up to 16CH) Play, Date-Time/Title display

## Network

<b>Protocol</b>	IPv4, IPv6, TCP/IP, UDP/IP, RTP (UDP), RTP (TCP), RTSP, RTCP, NTP, HTTP, DHCP (Server, Client), SMTP, ICMP, IGMP, ARP, DNS, DDNS, uPnP, HTTPS, SNMP, ONVIF (Profile-S), SUNAPI(Server, Client)	
<b>DDNS</b>	Hanwha DDNS	
<b>Transmission Bandwidth</b>	Max. 520Mbps	
<b>Audio</b>	Input/Output	32 CH(network)
	Compression	G.711, G.726, AAC(16/48KHz)
	Audio Communication	2-Way
<b>Max Remote Users</b>	Search(3), Live Unicast(10), Multicast(20)	
<b>Security</b>	IP address filtering, User access Log, 802.1x, TLS, Encryption Device certificate(Hanwha Techwin Root CA), Signed firmware, TPM support	
<b>Web viewer</b>	Supported OS	Windows10 or higher, macOS 13.5.2 or higher
	Supported browser	Google Chrome, Microsoft Edge, Mac Safari
<b>Viewer Software</b>	WAVE, SSM, Webviewer, Wisenet Viewer, Wisenet mobile Support CGI(SUNAPI) for integration to 3'rd party VMS	

## Function

<b>Camera Setup</b>	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, SSSNR, Shutter, SSSDR, DIS), Fisheye Dewarping Mode, Hallway View Setup, Camera Webpage
<b>PTZ</b>	Control	Via GUI, Webviewer, SPC-2000/2001
	Preset	300 Presets
<b>Smart phone</b>	Support Model	iOS, Android
	Protocol Support	RTP, RTSP, HTTP, CGI(SUNAPI)
	Control	Live 16CH(Multi-Profile Support), Playback 4CH
	Max. Remote Users	Search(3), Live Unicast(10)
<b>Redundancy</b>	Failover	N+1
	ARB	Support
<b>Easy configuration</b>	P2P(QR code)	

## Interface

<b>Front</b>	Indicator	HDD, Alarm, Power, Record, Backup, Network
<b>Storage</b>	Yes	
<b>Reset</b>	Power button	
<b>HDMI</b>	2EA ( Playback/Setup → HDMI1) HDMI1 : 3840x2160 30Hz HDMI2 : 1920x1080 60Hz	

## Interface

Audio	Out 1EA (3.5mm Audio Jack)
Ethernet	RJ-45 3EA (LAN/WAN, 1Gbps)
Alarm	In 8EA, Out 4EA
USB	4EA(Front 2 x USB2.0 + Rear 2 x USB 3.0)
Power inlet	AC 1EA

## System

Log	Log List	Max. 100,000 (System Log, Event Log each)
System Control		Mouse(include wireless), Keyboard(include wireless), Web, Controller (SPC-2000/2001)
Language		English, French, German, Italian, Spanish, Russian, Turkish, Polish, Dutch, 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 $\pm$ 10%; 50/60Hz, 1.5A(Single SMPS)
Power Consumption	Max. 143W (488BTU with HDD 8ea)

## Mechanical

Color / Material	Black / Metal
Dimension	438.0 x 86.0 x 434.9 mm (17.47 x 3.39 x 17.12 inch)
Weight	7.3Kg (16.1lb, Except HDD)

## Intelligent Analysis

AI Search	Object Attribute	Compatible with Hanwha AI Cameras
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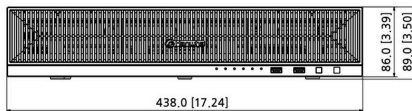
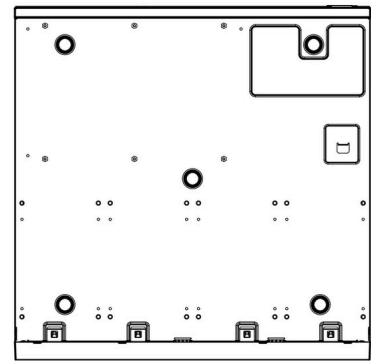
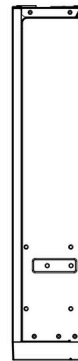
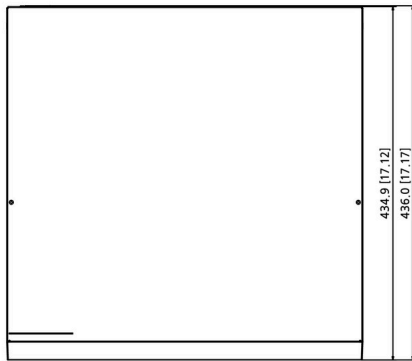
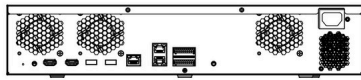
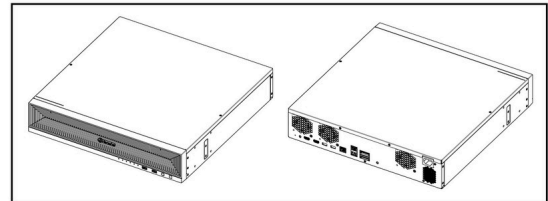


## CAD

Unit: mm [inch]

### XRN-6420B2\_XRN-3220B2 RECORDER

Reference image



Revision	V1.1
Revision Date	25/01/17
Paper Size	A1
Unit	mm [inch]
Scale	1:2

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