



XRN-6420B4

64CH NVR with 12th gen. Intel® Processor













Key Features

- 64CH, 32MP resolution
- SATA 16 HDD Bays (up to 160TB)
- 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
- NDAA compliant and TPM integrated
- Manual event support



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Specifications

Display		
	Inputs	Max. 64CH
Network camera	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 36 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(64ch@30fps)
Intelligent Analysis		
Al Search	Object Attribute	Compatible with Hanwha Al Cameras
	-	
Performance		
Operating System	Embedded	Linux
	Compression	H.265, H.264, MJPEG
	Recording Bandwidth	Distributed mode: Up to 520 Mbps Normal mode: Up to 300 Mbps {RAID mode} Normal: Up to 520 Mbps Degrade/ Rebuild: Up to 520 Mbps
P I	Resolution	32MP ~ CIF
Record	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
	Playback Bandwidth	Up to 200Mbps(64CH simultaneously)
	User	Max. 4 Users (Local 1, Remote 3)
	Simultaneous playback	Max. 112CH(Local 64CH, Remote 16CH per user)
Search & Play	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
External ISCSI storage RAID RAID-S/6/Array Size : 8 HDDs x 2 Array)			
RAID RAID-5/6(Array Size: 8 H0Ds x 2 Array)	Storage		<u> </u>
File backup			
Security Paddress String Security Paddress Security Security Paddress Security Security Paddress Security Paddress Security Paddress Security Paddress Security Security Paddress Security Security Paddress Security			· · · · · · · · · · · · · · · · · · ·
Network Protocol IPP4, IPP6, TCP/IP, UDP/IP, RTP (UDP), RTP (TCP), RTSP, RTCP, NTP, HTTP, DHCP (Server, Client), SMI ICMP (SMM ARP, DNS, DNNS, UPP), HTTPS, SNMP, ONVIF (Profile S), SUNAP/(Server, Client), SMI DDNS Hanwha DDNS Input/Output 64 CH(network) Audio Commerciation G.711, G.726, AAC(16/48KHz) Audio Communication 2-Way Max Remote Users Search(3), Live Unicast(10), Multicast(20) Paddress (litering, User access Log, 802, 1x, TLS, Encryption Device certificate(Hanwha Techwin Root CA), Signed Immorar, PM support Supported OS Windows10 or higher, macOS 13.5.2 or higher Supported OS Windows10 or higher, macOS 13.5.2 or higher Supported OS Windows10 or higher, macOS 13.5.2 or higher Supported OS Windows10 or higher, macOS 13.5.2 or higher Support Cell SUNAPII for integration to 3'rd party VMS Functions Register Auto, Manual Paddress, Add profile edit, Bitrate, Compression, GOP Quality, Camera Mose Setup (Simple Focus Brightness/Contras FlipMirror, IRR), VMD Rows, SSNR, Shruter, SSND, DISS, Fisherye Dewarping Mode, Hallway View Setup, Camera Webspage PTZ Control Via GUL, Webviewer, SPC-2000/2001 Preset 300 Presets Support Model 10S, Android Protocol Support RTP, RTSP, HTTP, CGI(SUNAPI) Control Live 16CH(Multi-Profile Support), Playback 4CH Max, Remote Users Search(3), Live Unicast(10) Max Remote Users Search(3), Live Unicast(10) Max Remote Users Redundancy ABB Support Basy configuration P2P(QR code) Interface Front Indicator HDD, Alarm, Power, Record, Backup, Network, RAID Storage Yes Reset Power button HDD Key Lock Yes Reset Power button HDD Mey Lock Unit 154, 358A (LAN/WAN, 10bps)	Backup		
Protocol Pv4, IPv4, TcP,/IP, UDP/IP, RTP (UDP), RTP (TCP), RTSP, RTCP, NTP, HTTP, DHCP (Server, Client). SMI CMP, ISMP, ARP, DNS, UPNP, HTTPS, SMMP, ONWIF (Profile-S), SUNAP(IServer, Client) Maw			,
ICMP, IGMP, RAPP, DNS, DDNS, UPNP, HTTPS, SMMP, ONVIF (Profile-S), SUNAPI(Server, Client) DDNS	Network		
Transmission Bandwidth Max. 520Mbps Input/Output	Protocol	IPv4, IPv6, TCP/IP, UDP/IP, RTP (UDP), RTP (TCP), RTSP, RTCP, NTP, HTTP, DHCP (Server, Client), SMT ICMP, IGMP, ARP, DNS, DDNS, uPnP, HTTPS, SNMP, ONVIF (Profile-S), SUNAPI(Server, Client)	
Input/Output 64 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, TLS, Encryption Device certificate(Hanwha Techwin Root CA), Signed firmware, TPM support Supported OS Windows 10 or higher, macOS 13.5, 2 or higher Supported Browser Google Chrome, Microsoft Edge, Mac Safari Viewer Software SSM, Webviewer, Winenet Viewer, Wisenet mobile Support CG(ISUNAPI) for integration to 3'rd party VMS Functions Register Auto, Manual Item Paddress, Add profile edit, Bitrate, Compression, GOP, Quality, Camera VMD setup (4, 8 point polygon) Camera Setup Lifem Paddress, Add profile edit, Bitrate, Compression, GOP, Quality, Camera VMD setup (4, 8 point polygon) Camera VMD setup (4, 8 point	DDNS	Hanwha DDNS	
Audio Compression G.711.G.726.AACC16/48KHz) Audio Communication 2-Way Max Remote Users Search(3), Live Unicast(10), Multicast(20) Security IP address filtering User access Log 820.1x. TL. Encryption Device certificate(Hanwha Techwin Root CA), Signed firmware, TPM support Supported OS Windows:10 or higher, macOS 13.5.2 or higher Supported browser Google Chrome, Microsoft Edge, Mac Safari Viewer Software SM, Webviewer, Winenet Viewer, Wisenet mobile Support CG(ISUNAPI) for integration to 3'rd party VMS Functions Register Auto, Manual Item Paddress, Add profile edit, Bitrate, Compression, GOP Quality, Camera MD setup (4.8 point polygon) Camera Setup Item Control Viewer, Wisenet Viewer, Wisenet mobile Support Model Air Signification of Camera video setup (Simple focus, Brightness/Contras Fig/Mirror, Rigk, WDR DAR, SSIG, WDR Paddress, Add profile edit, Bitrate, Compression, GOP Quality, Camera MD setup (4.8 point polygon) Camera Viewer Sord, Dish, Fisheye Dewarping Mode, Hallway View Setup, Camera Webpage PTZ Control Via GUI, Webviewer, SPC-2000/2001 Preset 300 Presets 300 Presets 300 Presets 300 Presets 300 Presets 400, Android Protocol Support RTP, RTSP, HTTP, CGI(SUNAPI) Control Live 16CH(Multi-Profile Support), Playback 4CH Max, Remote Users Search(3), Live Unicast(10) Max, Remote Users Search(3), Live Unicast(10) Interface Front Indicator HDD, Alarm, Power, Record, Backup, Network, RAID Storage Yes Reset Power button HDD (1904) 12902x1080 60Hz HDM1: 3840x216x0 30Hz HDM1: 3840x216x0 30Hz HDM1: 3840x216x0 30Hz HDM1: 3840x216x0 30Hz HDM2: 12902x1080 60Hz HDM1: 12902x1080 60Hz Audio Out 1EA (3.5mm Audio Jack) Ethernet RJ-45 3EA (LAN/WAN, 16bps)	Transmission Bandwidth	Max. 520Mbps	
Audio Communication 2-Way Max Remote Users Search(3), Live Unicast(10), Multicast(20) Peddress filtering, User access Log, 802.1x, TLS. Encryption Device certificate(Hanwha Techwin Root CA), Signed firmware, TPM support Supported OS Windows10 or higher, macOS 13.5.2 or higher Supported OS Windows10 or higher, macOS 13.5.2 or higher Supported SSM, Webviewer, Winenet Viewer, Wisenet mobile Support CG(ISUNAPI) for integration to 3'rd party VMS Functions Register Auto, Manual Paddress, Add profile edit, Bitrate, Compression, GOP Quality, Camera Mos Setup (14, 8 point polygon) Camera videos with Stemple focus, Brightness/Contrast Flip/Mirror, IRIS, WDR, D&N, SSNR, Shutter, SSDR, DISJ, Fisheye Devarpting Mode, Hallway View Setup, Camera Webpage PTZ Control Via GUI, Webviewer, SPC-2000/2001 Preset 300 Presets Support Model IOS, Android Protocol Support RTP, RTSP, HTTP, CGI(SUNAPI) Control Live 16CH(Multi-Profile Support), Playback 4CH East Configuration P2P(QR code) Interface Front Indicator N-1 ARB Support Interface Front Indicator HDD, Alarm, Power, Record, Backup, Network, RAID Storage Yes Reset Power button HDD Key Lock Yes EAEA (Playback/Setup → HDMI1) HDMI: 3840x2160 30Hz HDMI: 1920x1080 60Hz Audio Out 1EA (3.5mm Audio Jack) Ethernet RJ-45 3EA (LAN/WAN, 16bps)		Input/Output	64 CH(network)
Search(3), Live Unicast(10), Multicast(20)	Audio	Compression	G.711, G.726, AAC(16/48KHz)
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Protocol Support RTP, RTSP, HTTP, CGI(SUNAPI) Control Live 16CH(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 HDD, Alarm, Power, Record, Backup, Network, RAID Storage Yes Reset Power button HDD Key Lock Yes HDMI : 3840x2160 30Hz HDMI2 : 1920x1080 60Hz Audio Out 1EA (3.5mm Audio Jack) Ethernet RJ-45 3EA (LAN/WAN, 1Gbps)	PIZ	Preset	300 Presets
Smart phone Control Live 16CH(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 Indicator HDD, Alarm, Power, Record, Backup, Network, RAID Storage Yes Reset Power button HDD Key Lock Yes HDMI 2EA (Playback/Setup → HDMI1) HDMI1 : 3840x2160 30Hz HDMI2 : 1920x1080 60Hz Audio Out 1EA (3.5mm Audio Jack) Ethernet RJ-45 3EA (LAN/WAN, 1Gbps)		Cupport Model	:0C Ad:d
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ARB Support Easy configuration P2P(QR code) Interface Front Indicator HDD, Alarm, Power, Record, Backup, Network, RAID Storage Yes Reset Power button HDD Key Lock Yes HDMI 2EA (Playback/Setup → HDMI1) HDMI1: 3840x2160 30Hz HDMI2: 1920x1080 60Hz Audio Out 1EA (3.5mm Audio Jack) Ethernet RJ-45 3EA (LAN/WAN, 1Gbps)	Smart phone	Protocol Support Control	RTP, RTSP, HTTP, CGI(SUNAPI) Live 16CH(Multi-Profile Support), Playback 4CH
Easy configuration P2P(QR code) Interface Front Indicator HDD, Alarm, Power, Record, Backup, Network, RAID Storage Yes Reset Power button HDD Key Lock Yes 2EA (Playback/Setup → HDMI1) HDMI1: 3840x2160 30Hz HDMI2: 1920x1080 60Hz Audio Out 1EA (3.5mm Audio Jack) Ethernet RJ-45 3EA (LAN/WAN, 1Gbps)	Smart phone	Protocol Support Control Max. Remote Users	RTP, RTSP, HTTP, CGI(SUNAPI) Live 16CH(Multi-Profile Support), Playback 4CH Search(3), Live Unicast(10)
Front Indicator HDD, Alarm, Power, Record, Backup, Network, RAID Storage Yes Reset Power button HDD Key Lock Yes HDMI 2EA (Playback/Setup → HDMI1) HDMI1 : 3840x2160 30Hz HDMI2 : 1920x1080 60Hz Audio Out 1EA (3.5mm Audio Jack) Ethernet RJ-45 3EA (LAN/WAN, 1Gbps)	·	Protocol Support Control Max. Remote Users Failover	RTP, RTSP, HTTP, CGI(SUNAPI) Live 16CH(Multi-Profile Support), Playback 4CH Search(3), Live Unicast(10) N+1
StorageYesResetPower buttonHDD Key LockYesHDMI2EA (Playback/Setup → HDMI1) HDMI1 : 3840x2160 30Hz HDMI2 : 1920x1080 60HzAudioOut 1EA (3.5mm Audio Jack)EthernetRJ-45 3EA (LAN/WAN, 1Gbps)	Redundancy	Protocol Support Control Max. Remote Users Failover ARB	RTP, RTSP, HTTP, CGI(SUNAPI) Live 16CH(Multi-Profile Support), Playback 4CH Search(3), Live Unicast(10) N+1
Reset Power button HDD Key Lock Yes HDMI 2EA (Playback/Setup → HDMI1) HDMI1 : 3840x2160 30Hz HDMI2 : 1920x1080 60Hz Audio Out 1EA (3.5mm Audio Jack) Ethernet RJ-45 3EA (LAN/WAN, 1Gbps)	Redundancy Easy configuration	Protocol Support Control Max. Remote Users Failover ARB	RTP, RTSP, HTTP, CGI(SUNAPI) Live 16CH(Multi-Profile Support), Playback 4CH Search(3), Live Unicast(10) N+1
HDD Key Lock Yes 2EA (Playback/Setup → HDMI1) HDMI : 3840x2160 30Hz HDMI2: 1920x1080 60Hz Audio Out 1EA (3.5mm Audio Jack) Ethernet RJ-45 3EA (LAN/WAN, 1Gbps)	Redundancy Easy configuration Interface	Protocol Support Control Max. Remote Users Failover ARB P2P(QR code)	RTP, RTSP, HTTP, CGI(SUNAPI) Live 16CH(Multi-Profile Support), Playback 4CH Search(3), Live Unicast(10) N+1 Support
2EA (Playback/Setup → HDMI1) HDMI1: 3840x2160 30Hz HDMI2: 1920x1080 60Hz Audio Out 1EA (3.5mm Audio Jack) Ethernet RJ-45 3EA (LAN/WAN, 1Gbps)	Redundancy Easy configuration Interface Front	Protocol Support Control Max. Remote Users Failover ARB P2P(QR code)	RTP, RTSP, HTTP, CGI(SUNAPI) Live 16CH(Multi-Profile Support), Playback 4CH Search(3), Live Unicast(10) N+1 Support
2EA (Playback/Setup → HDMI1) HDMI1: 3840x2160 30Hz HDMI2: 1920x1080 60Hz Audio Out 1EA (3.5mm Audio Jack) Ethernet RJ-45 3EA (LAN/WAN, 1Gbps)	Redundancy Easy configuration Interface Front Storage	Protocol Support Control Max. Remote Users Failover ARB P2P(QR code) Indicator Yes	RTP, RTSP, HTTP, CGI(SUNAPI) Live 16CH(Multi-Profile Support), Playback 4CH Search(3), Live Unicast(10) N+1 Support
Ethernet RJ-45 3EA (LAN/WAN, 1Gbps)	Redundancy Easy configuration Interface Front Storage Reset	Protocol Support Control Max. Remote Users Failover ARB P2P(QR code) Indicator Yes Power button	RTP, RTSP, HTTP, CGI(SUNAPI) Live 16CH(Multi-Profile Support), Playback 4CH Search(3), Live Unicast(10) N+1 Support
	Smart phone Redundancy Easy configuration Interface Front Storage Reset HDD Key Lock HDMI	Protocol Support Control Max. Remote Users Failover ARB P2P(QR code) Indicator Yes Power button Yes 2EA (Playback/Setup → HDMI1) HDMI1: 3840x2160 30Hz	RTP, RTSP, HTTP, CGI(SUNAPI) Live 16CH(Multi-Profile Support), Playback 4CH Search(3), Live Unicast(10) N+1 Support
	Redundancy Easy configuration Interface Front Storage Reset HDD Key Lock HDMI	Protocol Support Control Max. Remote Users Failover ARB P2P(QR code) Indicator Yes Power button Yes 2EA (Playback/Setup → HDMI1) HDMI1: 3840x2160 30Hz HDMI2: 1920x1080 60Hz	RTP, RTSP, HTTP, CGI(SUNAPI) Live 16CH(Multi-Profile Support), Playback 4CH Search(3), Live Unicast(10) N+1 Support
	Redundancy Easy configuration Interface Front Storage Reset HDD Key Lock HDMI Audio	Protocol Support Control Max. Remote Users Failover ARB P2P(QR code) Indicator Yes Power button Yes 2EA (Playback/Setup → HDMI1) HDMI1: 3840x2160 30Hz HDMI2: 1920x1080 60Hz Out 1EA (3.5mm Audio Jack)	RTP, RTSP, HTTP, CGI(SUNAPI) Live 16CH(Multi-Profile Support), Playback 4CH Search(3), Live Unicast(10) N+1 Support

Design and specifications are subject to change without notice. The latest product information / specification can be found at HanwhaVision.com. Hanwha Vision is formerly known as Hanwha Techwin.





USB	4EA(Front 2 x USB 2.0, Rear 2 x USB 3.0)	
Power inlet	AC 1EA	
System		
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	$100 \sim 240 \text{ VAC} \pm 10\%$; 50/60 Hz, 2.7A (Single SMPS)	
Power Consumption	Max. 265W (904.2 BTU with HDD 16ea)	
Mechanical		
Color / Material	Black / Metal	
Dimension (WxHxD)	440.0 x 132.0 x 571.1mm	
Weight	Approx. 14Kg(30.9 lb, HDD not included)	



XRN-6420B4

64CH NVR with 12th gen. Intel® Processor







CAD Unit:mm [inch]

