

# XRN-1620SB1

16CH NVR



#### **Key Features**

- Up to 16CH 32MP supported
- Max. 140Mbps network camera recording
- HDMI out
- User friendly UI / UX
- Al search support when working with Wisenet Al camera
- Dynamic Event support
- New event function of cameras is available without software update
- H.265, H.264, MJPEG codec supported
- Plug & play by 16 PoE ports
- Bookmark management (Up to 100 set)
- SATA 4ea (Up to 24TB)



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#### **Specifications**

Display		
Network camera	Inputs	Max. 16CH
	Resolution	32MP ~ CIF
	Protocols	SUNAPI, ONVIF
Decoding	Local Display	FHD : HDMI & VGA Dual monitor UHD : HDMI Single monitor
	Multi Screen Display	[Local Monitor] - Dynamic layout, Virtual channel view - Clone mode: Up to 16 Division - Expand mode: Up to 9 Division [Web] 1/2H/2V/3V/4/6/8/9
	Resolution	[Local Monitior] FHD Clone mode: 32M(15fps, H.265 Only), 12M(30fps, H.265 Only), 8.3M(50fps), 1080p(240fps), D1(480fps) UHD Single mode: 32M(15fps, H.265 Only), 12M(30fps, H.265 Only), 8.3M(50fps), 1080p(240fps), D1(270fps) FHD Expand mode: 32M(12fps, H.265 Only), 12M(25fps, H.265 Only), 8.3M(30fps), 1080p(90fps), D1(200fps) Clone/Single mode: Up to 25fps when displaying more than 10CH
Performance		
Operating System	Embedded	Linux
Record	Compression	H.265, H.264, MJPEG
	Recording Bandwidth	Max. 140Mbps
	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, Shotdown
Search & Play	Playback Bandwidth	Max. 32Mbps
	User	Max. 4 Users (Local 1, Remote 3)
	Simultaneous playback	Max. 64CH(Local 16CH, Remote 16CH per user)
	Fisheye Dewarping	CMS
	Mode	Date & Time(Calendar), Event list, Text Search, Smart Search
	Resolution	CIF ~ 32MP (Up to H.264 8.3MP, H.265 32MP)
	Playback Control	Fast/Slow Forward / Backward, Move one step Up / Down
Storage	Supported HDD	Up to 6TB
	HDD Slot	SATA 4ea(Max. 24TB)
Backup	File backup	BU/Exe/AVI(GUI), JPG/AVI(Network)
	Function	Multi channel(Up to 16CH) 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 Bandwid	ith	Max. 140Mbps
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   Produces Table (10.2 to Produce State (10.2 to Produce State)			
Viewer Software         Supported browner         Completed browner         Wilker Software Wilsomer mobiles support Coll SUMAPH for integration to styling plany wilking.           Functions         Functions           Camera Software         Register         A SUMAPH SOFT AND STATE STATE AND STATE STATE AND STATE STATE STATE AND STATE	Security		
Marie Software   Marie Software Microsoft models   Marie Software Micro	Web viewer	Supported OS	Windows 10, macOS 10.13
Functions  Functions  Cames Setup. Register. As Anto Monual  Item (Control Security March Compressions 60P (Quality Camers Misering 14 8 point golygon) Comment of the Setup Simple focus Engineeras Compressions 60P (Quality Camers Misering 14 8 point golygon) Comment of the Setup Simple focus Engineeras Contract Flag Mirror (185 MDR, Delt SSNR, Shatter SSNR, OIS) Falleys Preset 300 Presets 300 Presets 400 Antonial Preset 300 Presets 300 Presets 400 Antonial Part of Support Model 40 Antonial Part of Control 50 Antonial Part of Con		Supported browser	Google Chrome, Microsoft Edge, Mac Safari
Common Setup         Register         Auto, Manual           Procession         Common of Security (Simple focus, Brightness) Contrast, Fliphlamor, IRS, WIRL, DAN, SSMR, Shutter, SSRR, DISI, Fishery Downsirping, Mode, Talkhary York Schap, Camora Workpage           PTZ         Control         Vis GUND Websideer, SPC 2000           Samarphone         Support Model         IOS Android           Control         USE ASCHIMATE-Profile Support, Playback ACH           Redundancy         Fallows         NETS-FITTY COLISIMARP)           Max. Remotubura         Serochi, Live Unicasti (D           Responsibility         Serochi, Live Unicasti (D           Easy configuration         Fallows         Net Control           Front         Indicate         HDD, Alarm, Power, Record, Saddup, Network           Front         Indicate         HDD, Alarm, Power, Record, Saddup, Network           Storage         V         147, 3840,21200 20192           VA         147, 3840,21200 20192         Network (P           Behave         147, 3840,21200 20192         Network (P           System         148, 400,222         Network (P           Using Park         148, 100,222         Network (P           System         140,222         Network (P         Network (P           System         140,222	Viewer Software		
Nem	Functions		
Prize	Camera Setup	Register	Auto, Manual
Preset		Item	Camera video setup (Simple focus, Brightness/Contrast, Flip/Mirror, IRIS, WDR, D&N, SSNR, Shutter, SSDR, DIS), Fisheye
Support Model         IOS. Android           Filtroicol Support         ETP, RTSP, HTTP, Col(SUMAPO)           Control         Live ESCHIMURIT-Profile Support! Playback-RCH           Max. Remote Users         Search(3) Live Unicast(10)           Redundancy         Fallower         M1           Eary configuration         PaPKQR codel           Interface           Front         Indicator         HDD. Alarm Power, Record, Backup, Network           Storage         KR           HEA 3840/21/03/08/R           VOR           HOMM           LEA 16/25/03/08/R           VOR           HOM Indicator           BEA 3840/21/03/08/R           VOR 16/25/03/08/R           LEA 16/25/03/08/R           LEA 16/25/03/08/R           LEA 16/25/03/08/R           LEA 16/25/03/08/R           System           Language         LEA 16/25/03/08/R           Language         Mosa, Keyboard, Web Controller (SPC-2000)           Language         LEA 16/25/03/R           Language         LEA 16/25/03/R         Mosa, Keybo	PTZ	Control	Via GUI, Webviewer, SPC-2000
Protect Support		Preset	300 Presets
Max. Remote Users   Max	Smart phone	Support Model	iOS, Android
Redundancy         Fallower         N±1           ARB         Support           Early configuration         Pallower         N±2           Front         Interface           Front         MDD, Alama, Power, Record, Backup, Network           Storage         OK           HDMI         1 EA 3840/2160 30H2           VGA         1 EA 1920x1680 60Hz           Audio         1 EA 1920x1680 60Hz           Alarm         1 EA 45.5mm Andio Jack)           Ethernet         9 EA FEA 51.6EA (LAN 10/100), RJ-45 2ea (LAN/WAN 10bps)           Flower Inlet         3 EA FEA 1.6EA (LAN 10/100), RJ-45 2ea (LAN/WAN 10bps)           Alarm         1 HAG, Out ZEA           USB         3 EA FEA 1.6EA (LAN 10/100), RJ-45 2ea (LAN/WAN 10bps)           System         3 EA FEA 1.6EA (LAN 10/100), RJ-45 2ea (LAN/WAN 10bps)           System         3 EA FEA 1.6EA (LAN 10/100), RJ-45 2ea (LAN/WAN 10bps)           System         3 EA FEA 1.6EA (LAN 10/100), RJ-45 2ea (LAN/WAN 10bps)           System         4 EA Direct 2.0EA 1.6EA (LAN 10/100), RJ-45 2ea (LAN/WAN 10bps)           System         3 EA FEA 1.6EA (LAN 10/100), RJ-45 2ea (LAN/WAN 10bps)           Environmental         3 Ea FEA 1.6EA (LAN 10/100), RJ-45 2ea (LAN/WAN 10bps)           Environmental         3 EA FEA 1.6EA (LAN 10/100), RJ-45 2ea (LAN/WA		Protocol Support	RTP, RTSP, HTTP, CGI(SUNAPI)
Redundancy         Fallower         N=1           Easy configuration         p2PC/RC code)           Easy configuration         P2PC/RC code)           Interface           Front         Indicator         HDD, Alarm, Power, Record, Backup, Network           Storage         OK           HDMI         ± 16 A 3840/2160/30/1/2         16 A 1920/1680 60/1/2           Audio         ± 16 A 1920/1680 60/1/2         16 A 1920/1680 60/1/2           Alarm         ± 00 ET AJ - 51.664 (LAN 10/100), RJ-45 2cg (LAN/WAN 1Gbps)           Alarm         ± 16 A 1940 0/128A (LAN 10/100), RJ-45 2cg (LAN/WAN 1Gbps)           Alarm Alarm         A C 1EA           System           Log         Log List         Max 100,000 (System Log Event Log exch)           System Control         Mouse, Keyboard, Web. Controllier (SPC - 2000)           Language         Employer         Word Hold Fronch, German, Italian, Spanish, Bussian Turkish, Polish Dutch, Czech, Portuguese, Danish Rumanian, Serbian, Craatian, Hungarian, Greek, Norwegian, Finnish, Korean, Chinese, Japanese, Thai, Vietnamese           Environmental           Environmental           Foerating Tempersture         O°C to 40°C(32°F to 104°F)           Operating Humidty         Jone 240°V to 40°C to 10°K 50/60 Hz           Po		Control	Live 16CH(Multi-Profile Support), Playback 4CH
ARB		Max. Remote Users	Search(3), Live Unicast(10)
Paper   Pap	Redundancy	Failover	N+1
Interface		ARB	Support
Front	Easy configuration		P2P(QR code)
Note	Interface		
HDMI         16 A 840x2160 30 Hz           VGA         1EA 1920x1090 60 Hz           Audio         Out 1EA (3.5mm Audio Jack)           Ethemet         PoEr RJ-45 16EA (LAN. 10/100), RJ-45 2ea (LAN/WAN 16bps)           Alarm         In 4EA Out 2EA           USB         3EA (Front 2 x USB 2.0, Rear 1 x USB 3.0)           Power inlet         AC 1EA           System           Log         Log List         Max. 100,000 (System Log, Event Log each)           System Control         Mouse, Keyboard, Web. Controller (SPC-2000)           Language         English, Front, German, Italian, Sapanish, Russian, Turkish, Polish, Dutch, Czech, Portuguese, Danish, Rumanian, Serbian, Croatian, Humgarian, Greek, Norwegian, Finnish, Korean, Chinese, Japanese, Thai, Vietnamese           Ervironmental           Operating Temperatur         OrC to +40°C(32°F to 104°F)           Operating Humidity         200°+ 280°N RH           Power fongut         100°- 240 VAC ± 10%; 50/60 Hz           Power fongut         Max. 310W           Power fongut         Max. 310W           Bog Budget         200°W           Mechanical           Black / Metal           Dimension (Wotho)         400 x 89 x 428.4 mm (17.32 x	Front	Indicator	HDD, Alarm, Power, Record, Backup, Network
VGA         1EA 1920x1080 60Hz           Audio         Out 1EA (3.5mm Audio Jack)           Ethemet         Poe+ RJ-45 16EA (LAN, 10/100), RJ-45 2ea (LAN/WAN 1Gbps)           Alarm         In 64C Out 2EA           USB         3EA (Front 2 x USB 2.0, Rear 1 x USB 3.0)           Power Inlet         AC 1EA           System           Log         Log List         Max. 100.000 (System Log, Event Log each)           System         Mouse, Keyboard, Web, Controller (SPC-2000)           Language         English, French, German, Italian, Spanish, Russian, Turkish, Polish, Dutch, Czech, Portuguese, Danish, Rumanian, Serbian, Croatian, Hungarian, Greek, Norwegian, Finnish, Korean, Chinese, Japanese, Thai, Wethamese           Environmental         Operating Temperatur         O° C to +40°C(32°F to 104°F)           Operating Humidity         20% - 85% RH         Dimension (Mydys)         Max. 310W           Power Consumption         Max. 310W           Power Longuigete         Max. 310W           BeChanical         Black / Metal           Color / Material         Black / Metal           Umension (Wydyx)         440 x 89.8 x 428.4 mm (17.32 x 3.54 x 16.87 inch)           Weight         5.76Kg (12.70lb)	Storage		ОК
Audio         Out 1EA (3.5mm Audio Jack)           Ethernet         PoE+ RJ-45 16EA (LAN, 10/100), RJ-45 2ea (LAN/WAN 1Gbps)           Alarm         In 4EA Out 2EA           USB         3 EA/Front 2 x USB 2.0. Rear 1 x USB 3.0)           PowerInlet         AC 1EA           System           Log         Log List         Max. 100.000 (System Log, Event Log each)           System Control         Mouse, Keyboard, Web. Controller (SPC-2000)           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 Ore Log Croatian, Hungarian, Greek, Norwegian, Finnish, Korean, Chinese, Japanese, Thai, Vietnamese           Electrical           Power (Donard Hundity)         20% ~ 85% RH           Electrical           Power Consumption         Max. 310W           Poer Budget         200W           Mechanical         200W           Mechanical         440 x 89.8 x 428.4 mm (17.32 x 3.54 x 16.87 inch)           Weight         5,76Kg (12.70lb)	НДМІ		1EA 3840x2160 30Hz
Bethernet         PoE+ RJ-45 16EA (LAN, 10/100), RJ-45 2ea (LAN/WAN 1Gbps)           Alarm         In 4EA Out 2EA           USB         3 EA(Front 2 x USB 2.0, Rear 1 x USB 3.0)           Power Inlet         AC 1EA           System           Log         Log List         Max 100,000 (System Log, Event Log each)           System Control         Mouse, Keyboard, Web, Controller (SPC-2000)           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 (nput Proper Tuput         100 - 240 VAC ± 10%; 50/60 Hz           Power (onsumption Pee Budget         2000           Mechanical           Color / Material         Black / Metal           Black / Metal           Metal Metal           Black / Metal           Metal Metal           Metal Metal	VGA		1EA 1920x1080 60Hz
Alarm         In 4EA Out 2EA           USB         3EA(Front 2 x USB 2.0, Rear 1 x USB 3.0)           Power Inlet         AC 1EA           System           Log         Log List         Max. 100,000 (System Log Event Log each)           System Control         Max. 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         O°C to +40°C(32°F to 104°F)           Operating Hunidity         20% - 85% RH           Electrical           Power Long unput	Audio		Out 1EA (3.5mm Audio Jack)
Power Inlet   AC 1EA	Ethernet		PoE+ RJ-45 16EA (LAN, 10/100), RJ-45 2ea (LAN/WAN 1Gbps)
Power inlet         AC 1EA           System           Log         Log List         Max. 100,000 (System Log. Event Log each)           System Control         Mouse. Keyboard. Web. Controller (SPC-2000)           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 ± 10%; 50/60 Hz           Power Consumption         Max. 310W           Mechanical           Mechanical           Color / Material         Black / Metal           Dimension (WxHxbt)         440 x 89.8 x 428.4 mm (17.32 x 3.54 x 16.87 inch)           Weight         5.76 Kg (12.70 lb)	Alarm		In 4EA, Out 2EA
System  Log Log List Max. 100.000 (System Log. Event Log each)  System Control Mouse, Keyboard, Web, Controller (SPC-2000)  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 ±10%; 50/60 Hz Power Consumption Max. 310W PoE Budget 200W  Mechanical  Color / Material Black / Metal  Dimension (WXHxD) 440 x 89.8 x 428.4 mm (17.32 x 3.54 x 16.87 inch) Weight 5.76Kg (12.70lb)  Intelligent Analysis	USB		3EA(Front 2 x USB 2.0, Rear 1 x USB 3.0)
Log       Log List       Max. 100,000 (System Log, Event Log each)         System Control       Mouse, Keyboard, Web, Controller (SPC-2000)         Language       English, French, German, Italian, Spanish, Russian, Turkish, Polish, Dutch, Czech, Portuguese, Danish, Rumanian, Serbian, Croatian, Hungarian, Greek, Norwegian, Finnish, Korean, Chinese, Japanese, Thal, Vietnamese         Environmental	Power inlet		AC 1EA
System Control 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 Operating Humidity 20% ~ 85% RH  Electrical Power Input 100 ~ 240 VAC ± 10%; 50/60 Hz Power Consumption Max. 310W PoE Budget 200W  Mechanical Color / Material Dimension (WxHxD) 440 x 89.8 x 428.4 mm (17.32 x 3.54 x 16.87 inch) Weight Intelligent Analysis	System		
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 Operating Humidity 20% ~ 85% RH  Electrical  Power Input 100 ~ 240 VAC ± 10%; 50/60 Hz  Power Consumption Max. 310W  PoE Budget 200W  Mechanical  Color / Material Dimension (WxHxD) 440 × 89.8 × 428.4 mm (17.32 × 3.54 × 16.87 inch)  Weight  Intelligent Analysis	Log	Log List	Max. 100,000 (System Log, Event Log each)
Environmental  Operating Temperature Operating Humidity Operating Humi	System Control		Mouse, Keyboard, Web, Controller (SPC-2000)
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. 310W           PoE Budget         200W           Mechanical         Color / Material           Dimension (WxHxD)         440 x 89.8 x 428.4 mm (17.32 x 3.54 x 16.87 inch)           Weight         5.76Kg (12.70lb)           Intelligent Analysis	Language		
Derating Humidity  Electrical  Power Input  100 ~ 240 VAC ± 10%; 50/60 Hz  Power Consumption  Max. 310W  PoE Budget  200W  Mechanical  Color / Material  Dimension (WxxHxD)  440 x 89.8 x 428.4 mm (17.32 x 3.54 x 16.87 inch)  Weight  Intelligent Analysis	Environmental		
Electrical  Power Input  100 ~ 240 VAC ± 10%; 50/60 Hz  Power Consumption  Max. 310W  PoE Budget  200W  Mechanical  Color / Material  Dimension (WxHxD)  440 x 89.8 x 428.4 mm (17.32 x 3.54 x16.87 inch)  Weight  Intelligent Analysis	Operating Temperatur	e	0°C to +40°C(32°F to 104°F)
Power Input 100 ~ 240 VAC ±10%; 50/60 Hz  Power Consumption Max, 310W  PoE Budget 200W  Mechanical  Color / Material Black / Metal  Dimension (WxHxD) 440 x 89.8 x 428.4 mm (17.32 x 3.54 x 16.87 inch)  Weight 5.76Kg (12.70lb)  Intelligent Analysis	Operating Humidity		20% ~ 85% RH
Power Consumption Max. 310W PoE Budget 200W  Mechanical  Color / Material Black / Metal Dimension (WxHxD) 440 x 89.8 x 428.4 mm (17.32 x 3.54 x 16.87 inch) Weight 5.76Kg (12.70lb)  Intelligent Analysis	Electrical		
PoE Budget         200W           Mechanical         Color / Material         Black / Metal           Dimension (WxHxD)         440 x 89.8 x 428.4 mm (17.32 x 3.54 x 16.87 inch)           Weight         5.76Kg (12.70lb)   Intelligent Analysis	Power Input		100 ~ 240 VAC ±10%; 50/60 Hz
Mechanical           Color / Material         Black / Metal           Dimension (WxHxD)         440 x 89.8 x 428.4 mm (17.32 x 3.54 x 16.87 inch)           Weight         5.76Kg (12.70lb)           Intelligent Analysis	Power Consumption		Max. 310W
Color / Material Black / Metal  Dimension (WxHxD) 440 x 89.8 x 428.4 mm (17.32 x 3.54 x 16.87 inch)  Weight 5.76Kg (12.70lb)  Intelligent Analysis	PoE Budget		200W
Dimension (WxHxD)         440 x 89.8 x 428.4 mm (17.32 x 3.54 x 16.87 inch)           Weight         5.76Kg (12.70lb)   Intelligent Analysis	Mechanical		
Weight 5.76Kg (12.70lb)  Intelligent Analysis	Color / Material		Black / Metal
Intelligent Analysis	Dimension (WxHxD)		440 x 89.8 x 428.4 mm (17.32 x 3.54 x16.87 inch)
	Weight		5.76Kg (12.70lb)
Al Soarch Object Attribute Compatible for Wisconst Al Compare	Intelligent Analys	sis	
Al Seal Cli	Al Search	Object Attribute	Compatible for Wisenet AI Camera



## XRN-1620SB1

16CH NVR





CAD Unit: mm [inch]

