HN60 ULTRA SERIES

SCALABLE • RELIABLE • INTELLIGENT

64 / 128 Channel NVRs

5 YEAR WARRANTY

ONVIF | S G T M

The HN60 ULTRA Series NVR is an enterprise-grade network video recording platform designed for mission-critical environments where uptime, scalability, and data integrity are uncompromisable.

The HN60 ULTRA Series NVR supports up to 128 IP camera channels and up to 480 TB of protected onboard storage. The platform is engineered to handle large-scale deployments with consistent, high-performance operation. Dual-redundant power supplies and hot-swappable hard drives ensure maximum system availability and simplified maintenance in continuous-operation environments.

The HN60 ULTRA Series NVR offers enhanced situational awareness through forensic smart search, allowing operators within seconds to locate events by object classification, license plate recognition, and characteristics of a person of interest such as estimated age, type or color of clothing. This capability transforms recorded video into actionable intelligence, accelerating incident response and operational decision making.

Designed for performance, reliability, and operational clarity, the HN60 ULTRA Series NVR is a cornerstone of enterprise-grade security.



24-Bay:
HN60U128240NR
HN60U128240DR
HN60U128240DHR



16-Bay:
HN60U64160NR
HN60U64160DR
HN60U128160NR
HN60U128160DR
HN60U128160DHR

MASSIVE SCALE & STORAGE

Grow Without Limits

- 64 or 128 camera channel capabilities
- Up to 480 TB on-board storage

HIGH AVAILABILITY OPERATIONS

Always-On Reliability

- Dual redundant power supply (on selected models only)
- N+5 failover

CRYSTAL-CLEAR IMAGING

Every Detail Matters

- Up to 32 MP camera resolution
- 800 Mbps recording throughput

BUILT-IN ANALYTICS

See More. Act Faster.

- Forensic smart search
- Intrusion & people counting

OPEN ECOSYSTEM

Fits Your Ecosystem

- ONVIF S / G / T / M
- SDK for third-party systems

Honeywell

HN60 ULTRA SERIES – 64 / 128 CH NVRS

KEY FEATURES AND BENEFITS

MASSIVE SCALE & STORAGE
Grow Without Limits

- 64 / 128 camera channel capacity
- 16/24 SATA option; 20TB HDD support
- Supports external NAS / eSATA recording
- Higher IO module inbuilt – 24 In & 8 Out

HIGH AVAILABILITY OPERATIONS
Always-On Reliability

- Redundant power supply
- Hot-swappable drives
- N+5 failover
- HW / SW RAID protection
- Auto backup

CRYSTAL-CLEAR IMAGING
Every Detail Matters

- Up to 32 MP camera resolution
- 8K HDMI output, 4K on 3 channels
- Fisheye dewarping – local & web UI

BUILT-IN ANALYTICS
See More. Act Faster.

- Intrusion
- Forensic smart search by gender, age, clothing color, license plate number

HIGH-SPEED PERFORMANCE
No Lag. No Compromise

- 800 Mbps recording throughput
- 2.5 GbE high-speed network card
- ANR – automatic network replenishment

OPEN ECOSYSTEM & INTEGRATION
Fits Your Ecosystem

- NDAA compliant & ONVIF S / G / T / M
- eSATA ports
- Access control integration – OnGuard & NetBox
- VMS Integration – MaxPro
- Cloud access control solution support – Elements
- API / SDK available

TARGET VERTICALS

Global Enterprise

Multi-site, multi-floor enterprise HQ

Datacenters

Tier 3/4 critical infrastructure

Industrial

Factories, plants & warehouses

Luxury Hotels

Upscale hospitality properties

Supermarkets

High-traffic retail environments

HN60 ULTRA SERIES – 64 / 128 CH NVRS

TECHNICAL SPECIFICATIONS

SYSTEM	
Main Processor	ARM Processor
Operating System	Embedded LINUX
ONVIF Compliance	ONVIF Profile S/G/T/M
User Management	User level: administrator, operator, media user
Log	System log, Event log, Operation log
Date & Time	Time Zone, Manual, Automatic Sync NTP, Daylight Saving Time, Sync camera time
Fan	Supported
Security	User account and password protection, HTTPS, IP Filter, Digest authentication, TLS1.2&TLS1.3, Stream encryption, AES128 / 256, Telnet & SSH closed, PCI-DSS compliance, System log
DDR	2 x 4 GB
EMMC	16 GB
Export Watermark Video Clip	Supported
HDD Key Lock	Supported
Easy Configuration	P2P (QR code)
On-Board Reset	Yes
SDK	Available (Post Signing NDA)

VIDEO DETECTION AND ALARMS			
	CAMERA		**NVR**
Alarm & Events	**Optical Cameras:** Camera Alarm In Video Loss Audio Detection Face Detection Motion Detection Smart Motion Detection Scene Change Intrusion Line Crossing Detection Double Line Crossing Detection Unattended Object Detection Missing Object Detection Wrong Way Detection Multi Loitering People Counter Face Detection Unauthorized Access Alarm LPR (White/Black List Detection, Visitor Detection) Intelligent Tracking Defocus Detection	**Bi-Spectrum Thermal Cameras**: Temperature Threshold Alarm Temperature Threshold Warning Temperature Difference Alarm Temperature Difference Warning Temperature Section Alarm Temperature Rise Alarm Temperature Rise Warning Smoker Detection Smoke And Flame Detection Fire Spot Detection	Disk alarm IP address conflict Network disconnected Fan event Failover alarm Power alarm NAS offline Auto backup failed Speaker offline CPU high temperature Hard Disk Full RAID Destroy RAID warning RAID starts rebuilding RAID rebuild completed Local Intrusion Detection(Up to 8CH)
Event Action	Buzzer Push message to App Pop up message to monitor Full screen Email FTP/SFTP PTZ Presets Speaker NVR Alarm out Camera alarm out Event recording		
Analytics At Edge (NVR)	Smart Search, Intrusion		
Event Search by Attribute	**Object Type:** Human, Vehicle, Pet, Audio, License plate **Attribute for Human:** Gender, Age, Mask, Clothing Color **Attribute for Vehicle:** Type, Vehicle Color **Attribute for Audio:** Glass Break, Scream, Gunshot, Loud sound, Baby cry **Attribute for License Plate:** License Plate Number		
Smart Search Type	Smart search by face, License plate search, People counter search, Metadata search		

HN60 ULTRA SERIES – 64 / 128 CH NVRS

TECHNICAL SPECIFICATIONS

VIDEO DETECTION AND ALARMS	
Metadata Search by Attribute	**Object Type:** Human, Vehicle, License plate **Attribute for Human:** Gender, Age, Mask, Clothing Color, Best shot **Attribute for Vehicle:** Type, Vehicle Color, Best shot **Attribute for License Plate:** License Plate Number
Supported Cameras	25 / 35 / 60 Series (Refreshed/Legacy) / Bi-Spectrum Thermal 60 Series Multi-Sensor 70 Series (For more details, refer to integration matrix)
Alarm In	24
Alarm Out	8
RS485	1(Reserved. No function)
RS232	1(Reserved. No function)
e-SATA	2
VGA	1

AUDIO	
Audio Input/Output	3.5 mm Line in x1 3.5 mm Line out x1
Audio Format	G711
Two-way Communication	Supported

VIDEO	HN60 ULTRA SERIES - 64 CH	HN60 ULTRA SERIES - 128 CH
Inputs	64 channels	128 channels

DISPLAY						
Interface		HDMI 1	HDMI 2	HDMI 3	HDMI 4	VGA
	Output Resolution	8K@30FPS (Max)	4K@60FPS (Max)	4K@60FPS (Max)	4K@30FPS (Max)	1080P@60FPS
	Scenario 1	Use all 4 HDMI, maximum support 4K@30FPS.				
	Scenario 2	When the resolution of HDMI1 output is 8K, HDMI2 is unavailable, HDMI3 and HDMI4 up to 1080P.				
	Notes	1. If use 4 HDMI together, then the split window is HDMI1 64 + HDMI2 32 + HDMI3 16 + HDMI4 16. If use 3 HDMI together, then the split window is maximum 64+32+32. If use 2 HDMI together, then the split window is maximum 64+64. 2. HDMI1 and HDMI2 display formats must match. Priority is given to HDMI1 in case of mismatch between monitors. 3. HDMI4 and VGA simultaneous video output.				
Resolution	7680 x 4320@30, 3840 x 2160@60, 3840 x 2160@30, 1920 x 1080, 1280 x 1024, 1024 x 768					
Display Split	1 / 4 / 8 / 9 / 16 / 32 / 36 / 64					
OSD	Time OSD, Channel OSD					
Privacy Mask	Up to 5 areas					
Stream Application	1 x 1: 1ch 32MP MAX 2 x 2: 4ch 12MP 3 x 3: 9ch 4MP 4 x 4: 16ch 4MP 6 x 6: 36ch 1080P 8 x 8: 64ch D1 (Only available for main output) Total Decoding Capability - 48ch at 1080p					
Fisheye Dewarp	Support (Local 2CH & Web UI 4CH)					
PTZ Operation	Direction control, home, iris, preset, tour, pattern, Focus +/-, Zoom+/-					
Language	English, Spanish, French, German, Italian, Portuguese, Dutch, Polish, Czech, Hungarian, Slovak, Arabic, Estonian, Bulgarian, Greek, Romanian, Danish, Swedish, Korean, Japanese, Traditional Chinese, Simple Chinese, Vietnamese, Thai, Turkish					

RECORDING	HN60 ULTRA SERIES - 64 CH	HN60 ULTRA SERIES - 128 CH
Compression	H.265 /H.264 smart encode	
Resolution	Up to 32 MP	
Frame Rate	30 fps	
Recording Mode	Continuous, Manual, Event	

HN60 ULTRA SERIES – 64 / 128 CH NVRS

TECHNICAL SPECIFICATIONS

RECORDING	HN60 ULTRA SERIES - 64 CH	HN60 ULTRA SERIES - 128 CH
Pre-event Recording Interval	Main stream: 2 Mbps Sub stream: 1 Mbps	
Post-event Recording Interval	30 sec. (Max. 60 sec.)	
ANR (Automatic Network Replenishment)	Supported*	
Recording Stream	Camera Stream 1 Camera Stream 2 Camera Stream 3 (Select up to two video streams for recording)	
Recording Throughput	640 Mbps	800 Mbps
STORAGE	**HN60 ULTRA SERIES - 64 CH**	**HN60 ULTRA SERIES - 128 CH**
Internal HDD	16 (3.5")	16 (3.5") / 24 (3.5")
Hot Swappable Drives	Supported	
HDD Max. Capacity**	Surveillance Class HDD (Non-RAID Supported): 20 TB Enterprise Class HDD (RAID Supported): 20 TB	
Manual Backup	USB Dongle (FAT Format)	
e-SATA	Supported	
Raid	Raid 0 / 1 / 5 / 6 / 10 (Need Enterprise Hard Disk)	
NAS	Directly recording, auto backup	
Failover	Failover N+5, auto backfill supported	
Storage Calculator Tool	https://myhoneywellbuildingsuniversity.com/training/asp_support_download_center	
PLAYBACK AND BACKUP		
Sync Playback	16 ch	
Decoding	H.265/H.264: 1ch : 32MP @ 30 fps 4ch: 8MP @ 30 fps 16ch: 4MP @ 30 fps	
Search Mode	Time search ,Event search, Smart search	
Playback Function	Regular (play, pause, stop), Play backwards, Next frame, Go back 30 seconds, Go forward 30 seconds, Speed control, Timeline, Timeline scale, Digital zoom, Snapshot, Back up	
Snapshot	JPG	
NETWORK	**HN60 ULTRA SERIES - 64 CH**	**HN60 ULTRA SERIES - 128 CH**
Ethernet	4 x 10 / 100 / 1000 / 2500 Mbps	
Supported Protocols	IPv4, IPv6, TCP / IP, HTTP, HTTPS, UPnP, RTSP / RTP / RTCP, SMTP, FTP, DHCP, NTP, DNS, DDNS, IPFilter, P2P, SNMP	
Maximum Number of Users	16	
Network Throughput (incoming / outgoing)	640 Mbps / 640 Mbps	800 Mbps / 800 Mbps
Throughput (HTTPS outgoing)	128 Mbps	
Smart Phone Compatibility	IOS 11 or later and Android 8.0 or later support	
Browsers	Edge, Chrome, Firefox, Safari	
Maxpro VMS Intergration	Yes	
ELECTRICAL	**HN60 ULTRA SERIES - 64 CH**	**HN60 ULTRA SERIES - 128 CH**
Power Supply	100-240V AC, 50/60Hz	
Redundant Power Supply	**HN60U64160DR:** Supported	**HN60U128xx0DR / HN60U128xx0DHR:** Supported

*Refer to the User Guide for more details.
**For detailed information about compatible HDDs, please refer to the user guide.

HN60 ULTRA SERIES – 64 / 128 CH NVRS

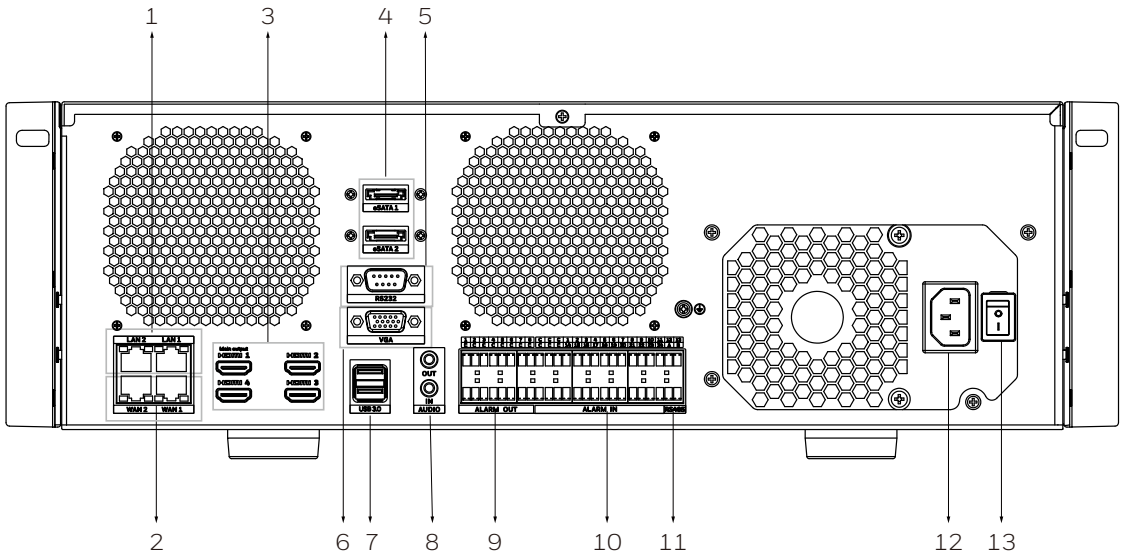
TECHNICAL SPECIFICATIONS

ELECTRICAL	HN60 ULTRA SERIES - 64 CH	HN60 ULTRA SERIES - 128 CH
Power Consumption	**HN60U64160DR:** Redundant power supply Max. 550 W (single power); 75 W without HDD **HN60U64160NR:** Max. 500 W; 75 W without HDD	**HN60U128xx0DR / HN60U128xx0DHR:** Redundant power supply Max. 550 W (single power); 75 W without HDD **HN60U128xx0NR:** Max. 500 W; 75 W without HDD
PHYSICAL	**HN60 ULTRA SERIES - 64 CH**	**HN60 ULTRA SERIES - 128 CH**
Product Dimensions	**HN60U64160NR**: 528.0 x 485.4 x 155.7mm (20.79" x 19.11" x 6.13") **HN60U64160DR**: 552.4 x 485.4 x 155.7 mm (21.75" x 19.11" x 6.13")	**HN60U128240NR**: 528.0 x 485.3 x 214.9 mm (20.79" x 19.11" x 8.46") **HN60U128160NR**: 528.0 x 485.4 x 155.7 mm (20.79" x 19.11" x 6.13") **HN60U128240DR / HN60U128240DHR**: 552.3 x 485.4 x 214.9 mm (21.74" x 19.11" x 8.46") **HN60U128160DR / HN60U128160DHR**: 552.4 x 485.4 x 155.7 mm (21.75" x 19.11" x 6.13")
Package Dimensions	**HN60U64160DR / HN60U64160NR:** 740 x 650 x 290 mm (29.13" x 25.59" x 11.42")(outer)	**HN60U128240NR / HN60U128240DR / HN60U128240DHR:** 740 x 650 x 345mm (29.13" x 25.59" x 13.58") (outer) **HN60U128160NR / HN60U128160DR / HN60U128160DHR:** 740 x 650 x 290 mm (29.13" x 25.59" x 11.42")(outer)
Product Weight (without HDD)	**HN60U64160NR**: 12.4 kg (27.34 lb) **HN60U64160DR:** 13.1 kg (28.88 lb)	**HN60U128160NR**: 12.4 kg (27.34 lb) **HN60U128160DR:** 13.1 kg (28.88 lb) **HN60U128160DHR:** 14.2 kg (31.31 lb) **HN60U128240NR**: 12.8 kg (28.22 lb) **HN60U128240DR**: 13.5 kg (29.76 lb) **HN60U128240DHR**: 14.6 kg (32.19 lb)
Height of Front Panel	3.2U	**HN60U128160xR / HN60U128160DHR:** 3.2U **HN60U128240xR / HN60U128240DHR:** 4.5U
AUXILIARY INTERFACE		
USB Ports	Front x 2, USB 2.0 Back x 2, USB 3.0	
ENVIRONMENTAL		
Operating Temperature	**HN60U64160NR / HN60U64160DR / HN60U128160NR / HN60U128160DR / HN60U128240NR / HN60U128240DR**: 14°F ~ 131°F (-10°C ~ 55°C) **HN60U128160DHR / HN60U128240DHR**: 32°F ~ 122°F (0°C ~ 50°C)	
Relative Humidity	Less than 90% RH	
Storage Temperature	-40°F ~ 140°F (–40°C ~ 60°C)	
REGULATORY		
Emissions	FCC Part 15, CE (EN 55032, EN 61000-3-2, EN 61000-3-3, EN 61000-6-4), ICES-003, Comply with UKCA and RCM	
Immunity	CE (EN 50130-4, EN 55035) Comply with UKCA and RCM	
Safety	UL LISTED TO UL / CSA 62368-1, CE (EN 62368-1), Comply with UKCA and RCM	
RoHS	CE (EN 63000), UAE (Cabinet Decree No.10 of 2017)	
Country of Origin	Vietnam	
Warranty	5 year	

HN60 ULTRA SERIES – 64 / 128 CH NVRS

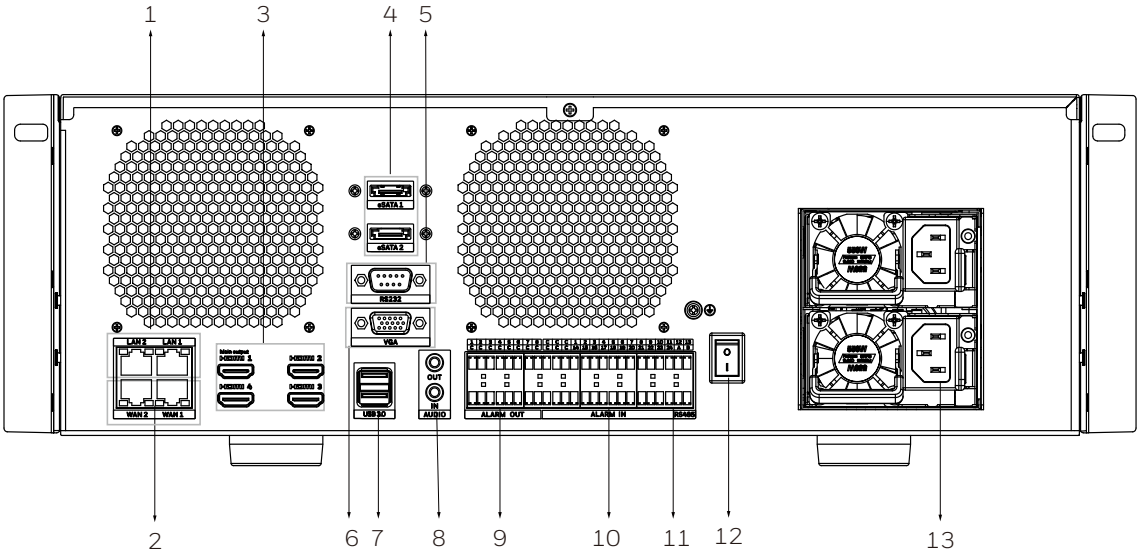
SYSTEM DIAGRAM – 16 BAY

HN60U64160NR / HN60U128160NR



1. LAN 1 Port, LAN 2 Port 2. WAN 1 Port, WAN 2 Port 3. HDMI 1 Port (Main output), HDMI 2 Port, HDMI 3 Port, HDMI 4 Port 4. eSATA 1 Port, eSATA 2 Port
5. RS232 Port (Reserved. No function.) 6. VGA Port 7. USB Port 8. Audio Out, Audio In 9. Alarm Out 10. Alarm In 11. RS485 Port (Reserved. No function.)
12. Power Input 13. Power Switch

HN60U64160DR / HN60U128160DR / HN60U128160DHR

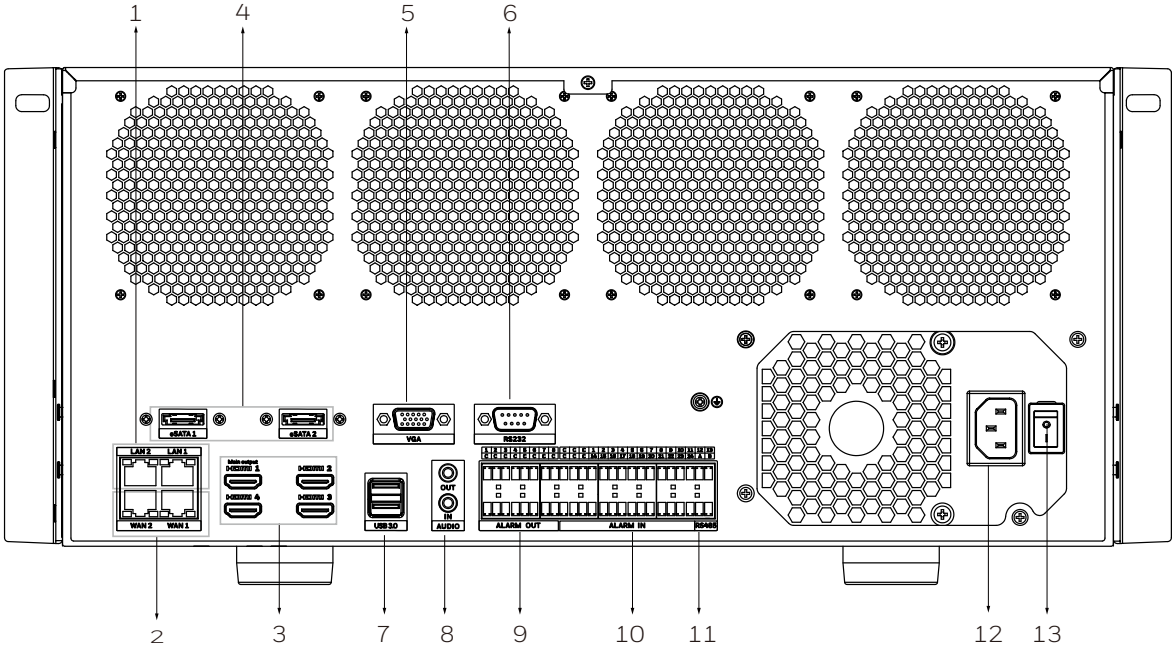


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5. RS232 Port (Reserved. No function.) 6. VGA Port 7. USB Port 8. Audio Out, Audio In 9. Alarm Out 10. Alarm In 11. RS485 Port (Reserved. No function.)
12. Power Switch 13. Power Input

HN60 ULTRA SERIES – 64 / 128 CH NVRS

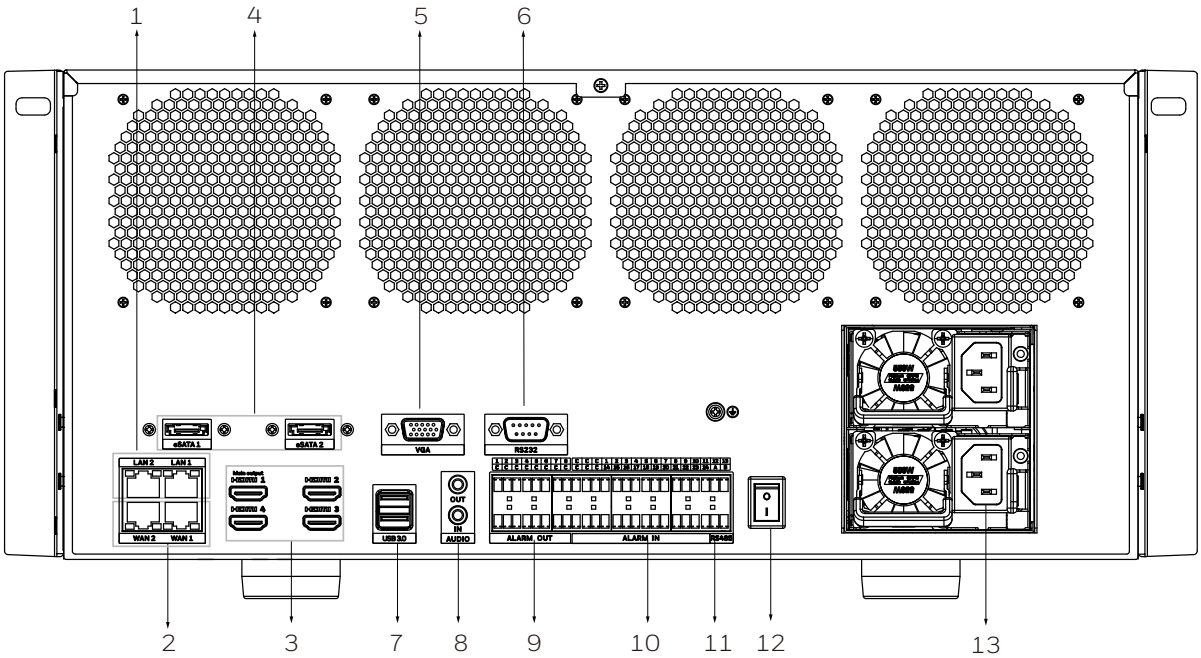
SYSTEM DIAGRAM – 24 BAY

HN60U128240NR



1. LAN 1 Port, LAN 2 Port 2. WAN 1 Port, WAN 2 Port 3. HDMI 1 Port (Main output), HDMI 2 Port, HDMI 3 Port, HDMI 4 Port 4. eSATA 1 Port, eSATA 2 Port 5. VGA Port 6. RS232 Port (Reserved. No function.) 7. USB Port 8. Audio Out, Audio In 9. Alarm Out 10. Alarm In 11. RS485 Port (Reserved. No function.) 12. Power Input 13. Power Switch

HN60U128240DR / HN60U128240DHR

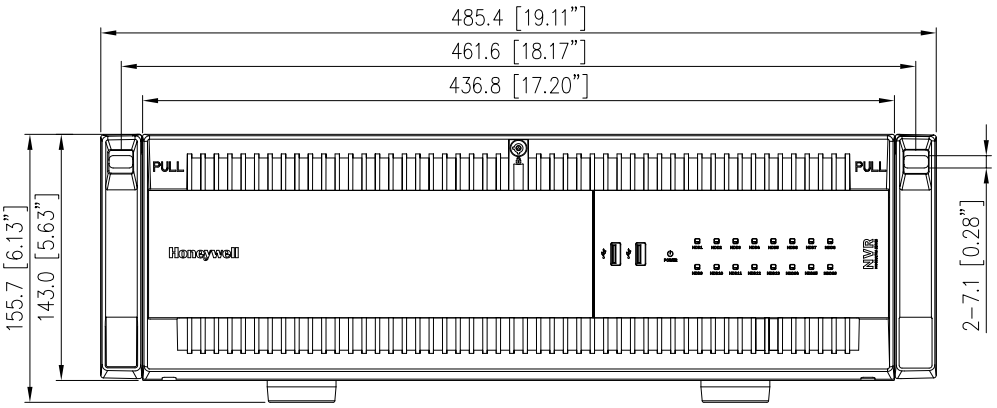


1. LAN 1 Port, LAN 2 Port 2. WAN 1 Port, WAN 2 Port 3. HDMI 1 Port (Main output), HDMI 2 Port, HDMI 3 Port, HDMI 4 Port 4. eSATA 1 Port, eSATA 2 Port 5. VGA Port 6. RS232 Port (Reserved. No function.) 7. USB Port 8. Audio Out, Audio In 9. Alarm Out 10. Alarm In 11. RS485 Port (Reserved. No function.) 12. Power Switch 13. Power Input

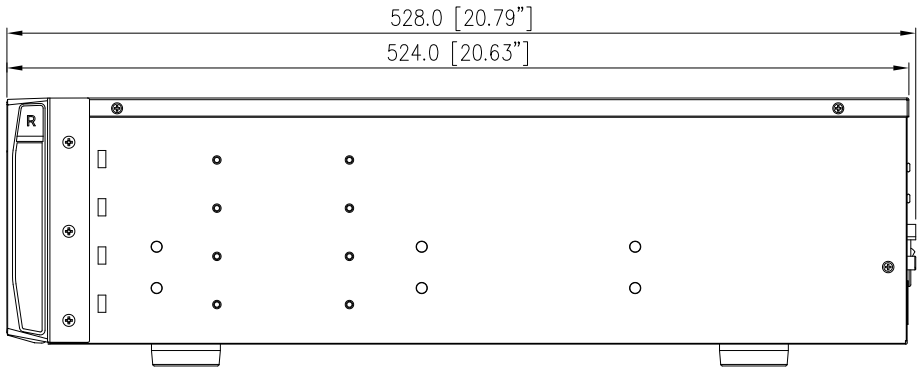
HN60 ULTRA SERIES – 64 / 128 CH NVRS

DIMENSIONS – 16 BAY

HN60U64160NR / HN60U128160NR (Single Power Supply)

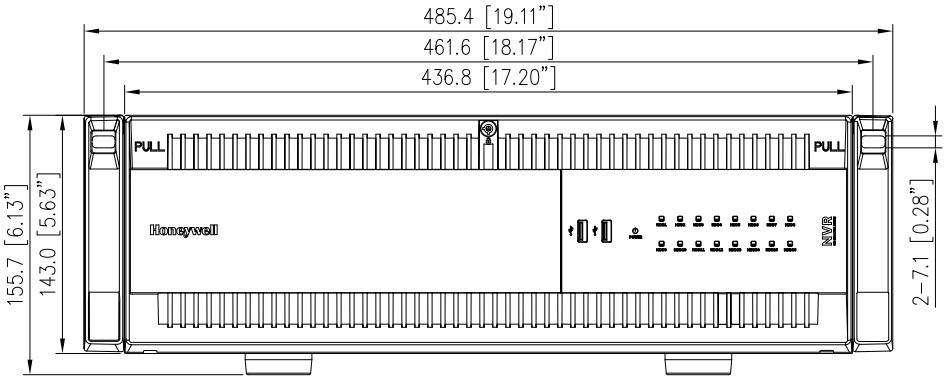


Front View

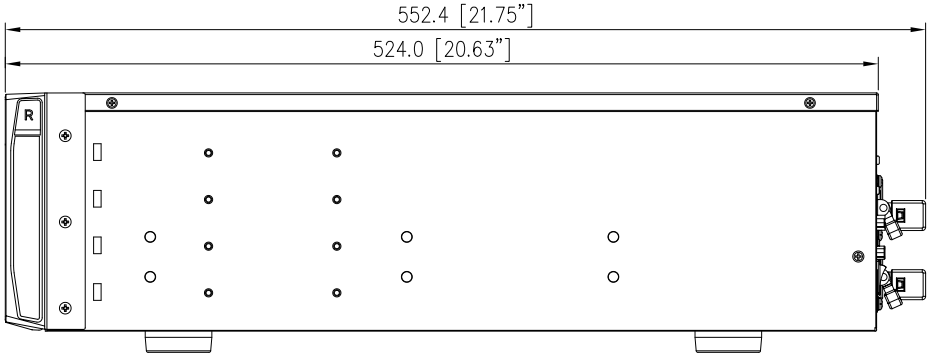


Side View

HN60U64160DR / HN60U128160DR / HN60U128160DHR (Dual Power Supply)



Front View

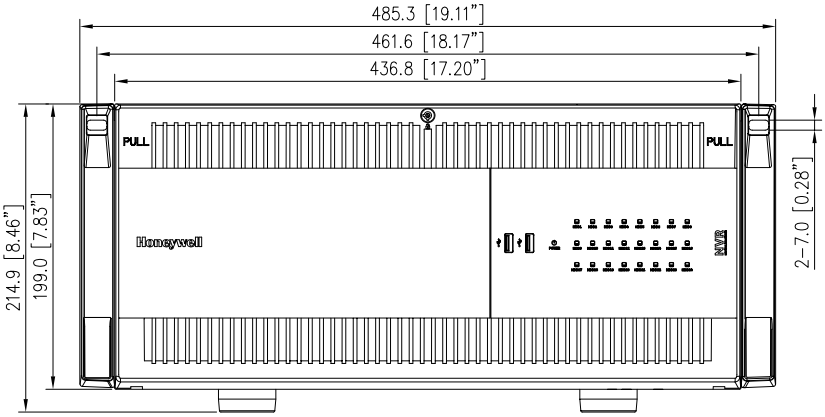


Side View

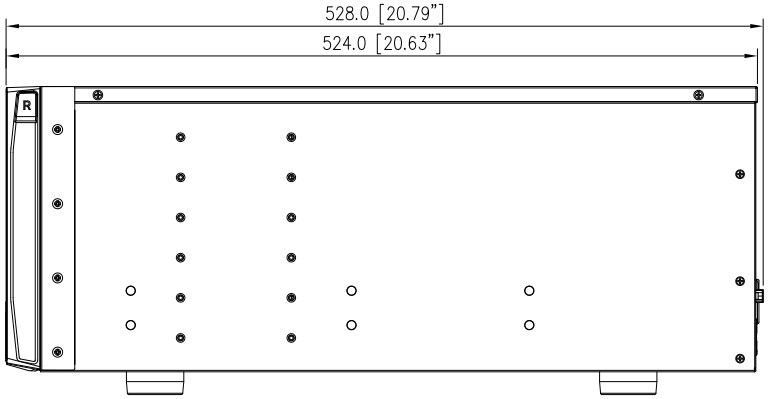
HN60 ULTRA SERIES – 64 / 128 CH NVRS

DIMENSIONS – 24 BAY

HN60U128240NR (Single Power Supply)

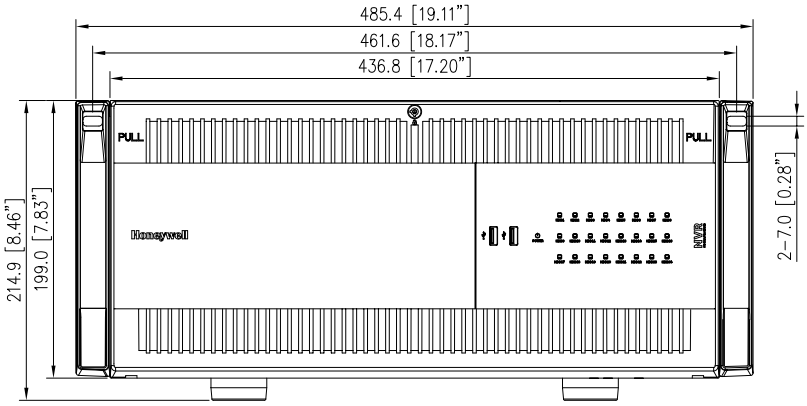


Front View

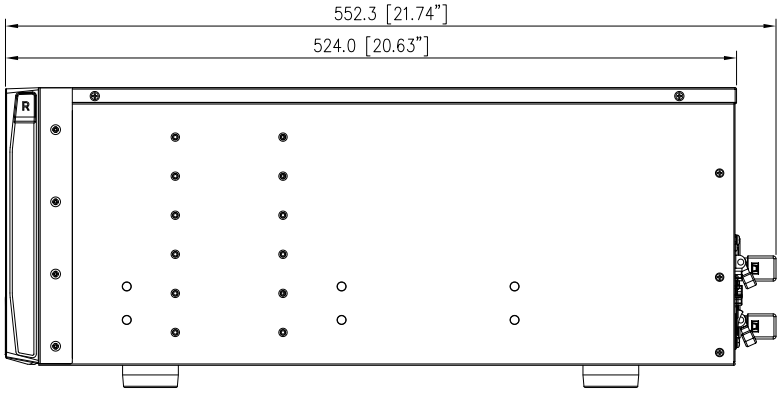


Side View

HN60U128240DR / HN60U128240DHR (Dual Power Supply)



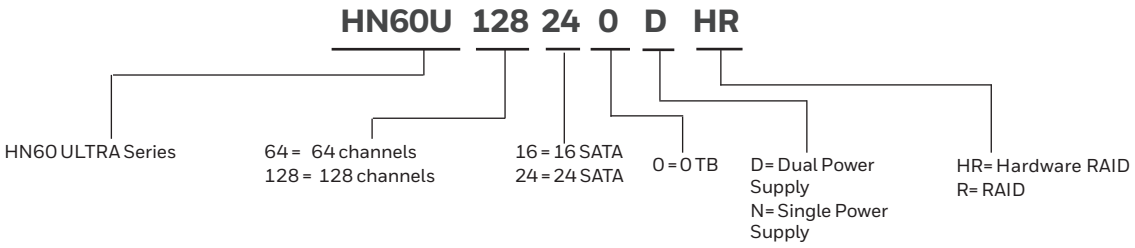
Front View



Side View

HN60 ULTRA SERIES – 64 / 128 CH NVRS

PART NUMBER LOOKUP



COMPATIBLE HARDWARE

COMPATIBLE KEYBOARD	
HWNAK-SCR	HN60 ULTRA Keyboard with Screen
COMPATIBLE DECODER	
HW04HD	HN60 ULTRA 4CH HDMI Decoder

ORDERING DETAILS

MODEL	DESCRIPTION
HN60 ULTRA SERIES – 64 CH	
HN60U64160NR	HN60 ULTRA 64ch, 16 Bay, RAID, 0TB
HN60U64160DR	HN60 ULTRA 64ch, 16 Bay, Dual PS, RAID, 0TB
HN60 ULTRA SERIES – 128 CH	
HN60U128160NR	HN60 ULTRA 128ch, 16 Bay, RAID, 0TB
HN60U128160DR	HN60 ULTRA 128ch, 16 Bay, Dual PS, RAID, 0TB
HN60U128160DHR	HN60 ULTRA 128ch, 16 Bay, Dual PS, HW RAID, 0TB
HN60U128240NR	HN60 ULTRA 128ch, 24 Bay, RAID, 0TB
HN60U128240DR	HN60 ULTRA 128ch, 24 Bay, Dual PS, RAID, 0TB
HN60U128240DHR	HN60 ULTRA 128ch, 24 Bay, Dual PS, HW RAID, 0TB

MODEL	DESCRIPTION
Surveillance Hard Disk Drive*	
HN30HDS02	Surveillance hard disk drive, 2 TB
HN30HDS04	Surveillance hard disk drive, 4 TB
HN30HDS08	Surveillance hard disk drive, 8 TB
HN30HDS10	Surveillance hard disk drive, 10 TB
HN30HDS12	Surveillance hard disk drive, 12 TB
HN30HDS14	Surveillance hard disk drive, 14 TB
HN30HDS18	Surveillance hard disk drive, 18 TB
HN30HDS20	Surveillance hard disk drive, 20 TB
ENT HDD for RAID / For High Performance*	
HN35HDS02	Enterprise hard disk drive, 2 TB
HN35HDS04	Enterprise hard disk drive, 4 TB
HN35HDS08	Enterprise hard disk drive, 8 TB
HN35HDS10	Enterprise hard disk drive, 10 TB
HN35HDS12	Enterprise hard disk drive, 12 TB
HN35HDS16	Enterprise hard disk drive, 16 TB
HN35HDS20	Enterprise hard disk drive, 20 TB

*For detailed information about compatible HDDs, please refer to the user guide.

For more information:
buildings.honeywell.com/security

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