Network Video Recorder

NVR816 Series

Features

● Support Ultra 265/H.265/H.264 video formats

● 64/128-channel input

● Support mainstream cameras of ONVIF conformance(Profile S, Profile G, Profile T) and RTSP protocols

● Support 2-ch HDMI, 1-ch VGA, HDMI at up to 4K(3840x2160) resolution

● HDMI1, HDMI2 and VGA independent outputs provided

● Up to 12 Megapixels resolution recording

● Redundant power supply optional

● Support HDD hot swap with RAID 0, 1, 5, 6, 10, 50, 60 storage scheme configurable

● Support 2 miniSAS Interfaces

● Support 12V power output

● ANR technology to enhance the storage reliability when the network is disconnected

● Support cloud upgrade

● Support N+1 Hot spare

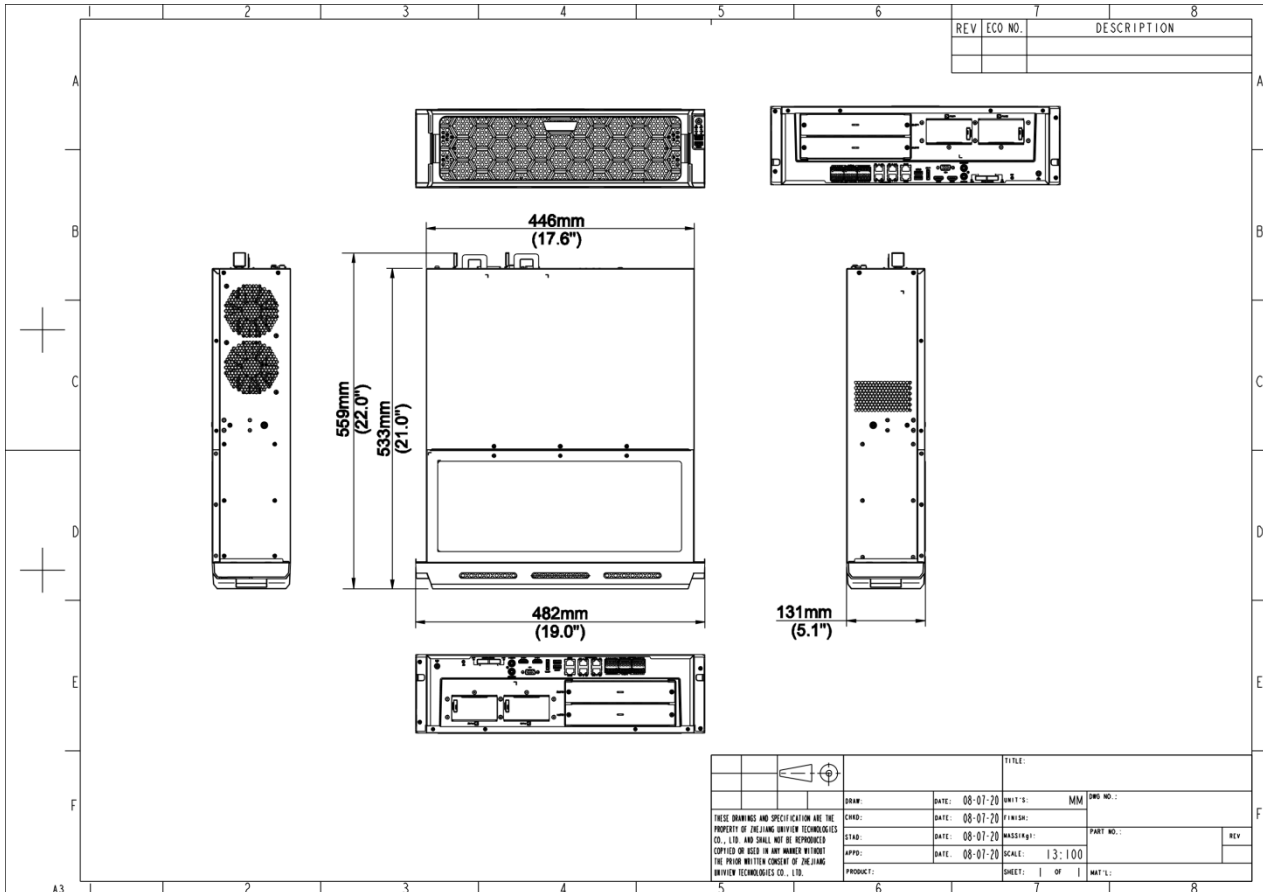## Specifications

Model	NVR816-64	NVR816-128
Decoding		

Decoding Format	Ultra 265, H.265, H.264	
Decoding Capability	3 x 12MP@25, 4 x 4K@30, 16 x 1080P@30, 32 x 960P@25, 36 x 720P@30, 64 x D1	
Decoding Capability Description	The resolution of each channel cannot exceed 4096 pixels in length or width, For VGA/HDMI independent output, the VGA live video is output by default. To output the highest resolution video from the HDMI port, please clear the VGA video on the preview page.	
Audio Compression	G.711A, G.711U	
Network		
Incoming Bandwidth	512 Mbps	
Outgoing Bandwidth	512 Mbps	
Remote Users	128	
Protocols	TCP/IP, P2P, UPnP, NTP, DHCP, PPPoE, HTTP, HTTPS, DNS, DDNS, SNMP, SMTP, NFS, RTSP, 802.1x, IPv6, IPv4	
Browser(Plugin)	IE10, IE11, Chrome 45+, Edge 79+, Firefox 52+	
Video/Audio Input		
IP Video Input	64-ch	128-ch
RCA Audio Input	1-ch	
Video/Audio Output		
HDMI Output	4K (3840 × 2160)/30 Hz, 1920 × 1080/60 Hz, 1920 × 1080/50 Hz, 1600 × 1200/60 Hz, 1280 × 1024/60 Hz, 1280 × 720/60 Hz, 1024 × 768/60 Hz	
VGA Output	1920 × 1080/60 Hz, 1920 × 1080/50 Hz, 1600 × 1200/60 Hz, 1280 × 1024/60 Hz, 1280 × 720/60 Hz, 1024 × 768/60 Hz	
RCA Audio Output	1-ch	
Liveview Display	VGA:1/4/6/8/9/16/25/36, HDMI1/HDMI2:1/4/6/8/9/16/25/36/64	
Corridor Mode Screen	3/4/5/7/9/10/12/16/32	
Two-way Audio		
Two-way Audio	1-ch, RCA (Using the audio input and output)	
Snapshot		
FTP/Schedule/Event Snapshot	Full-ch snapshot (max. 4000 × 3000 video resolution, with snapshot resolution same as the video resolution)	
Recording		
Recording Resolution	12 MP/8 MP/6 MP/5 MP/4 MP/3 MP/1080P/960P/720P/D1/2CIF/CIF	
Synchronous Playback in Local	16-ch	

Smart

VCA Detection by IPC	Face Detection, Face Comparison, Vehicle Detection, SIP (Intrusion Detection, Cross Line Detection, Enter Area, Leave Area), Ultra Motion Detection (UMD), Temperature Detection (Fire Detection, Smoking Detection, Temperature Measurement, Smoke and Fire Detection), People Counting (People Flow Counting, Crowd Density Monitoring), Video Metadata, Traffic Monitoring
Smart by NVR	In the Smart Card datasheet
VCA Search	Face Snapshot Search, Face Comparison Search, Motor Vehicle Search, Non-Motor Vehicle Search, Human Body Search, General Search, People Counting Report
Smart by IPC	All channels (up to 64 images/s in total)Face Detection, Face Comparison, Vehicle Detection, Temperature Detection, SIP, UMD, Video Metadata, Traffic Monitoring
Vehicle Picture Library	Up to 5 vehicle picture libraries, with up to 25,000 vehicle pictures in total
SIP by NVR	In the Smart Card datasheet
Capacity of Snapshot Records	3 millions records for face snapshot, 3 millions records for vehicle snapshot, 2 millions records for SIP

Alarm

General Alarm	Defocus Detection, Scene Change Detection, Object Left Behind, Object Removed, Auto Tracking, Motion Detection, Tampering, Human Body Detection, Video Loss, Alarm Input, Audio Detection
Alert Alarm	IP Conflict, Network Disconnected, Disk Offline, Disk Abnormal, Illegal Access, Hard Disk Space Low, Hard Disk Full, Recording/Snapshot Abnormal, High CPU Temperature, High Motherboard Temperature, Array Damaged, Array Degraded

GUI Language

GUI Language	38 languages: Simplified Chinese, Traditional Chinese, English, Vietnamese, Thai, Turkish, Spanish (Latin America), Portuguese (Brazil), Spanish, Portuguese, French, German, Italian, Dutch, Polish, Czech, Hungarian, Slovak, Russian, Hebrew, Arabic, Ukrainian, Estonian, Bulgarian, Greek, Romanian, Danish, Swedish, Norwegian, Finnish, Croatian, Slovenia, Serbia, Korean, Japanese, Latvian, Lithuanian, Persian

Hard Disk

SATA	16 SATA Interfaces
Capacity	Up to 16 TB for each HDD (The maximum HDD capacity varies with environment temperature)
Disk Array Type	RAID 0, 1, 5, 6, 10, 50, 60
Hot Swap	Support

External Interface

Network Interface	4 RJ45 10 M/100 M/1000 M self-adaptive Ethernet Interface
USB	Front panel: 2 × USB2.0, Rear panel: 2 × USB3.0
RS485	1

RS232	1
Alarm In	24-ch
Alarm Out	8-ch
eSATA	1
miniSAS	2
Extension Board	2
Power Output	12 V
Power Supply	AC 100 to 240 V
Power Switch	Support
Redundant Power Supply	Support
Working Environment	
Working Temperature	-10 ℃ to 55 ℃ (14 ℉ to 131 ℉)
Working Humidity	≤ 90% RH (non-condensing)
Power Consumption (without HDD)	≤ 65W
Dimensions	
Weight (without HDD)	≤ 12.5Kg (27.56lb)
Dimensions	482mm × 533mm × 131.0mm (19.0"×21.0"×5.1")
Certification	
Certification	CE; FCC; UL; RoHS; WEEE
CE	EN 55032, EN 61000-3-3, EN IEC 61000-3-2, EN 55035
FCC	Part15 Subpart B

Dimensions

Aggregate product size diagram using "main model" as an example

446mm
(17.6")

559mm
(22.0")

533mm
(21.0")

482mm
(19.0")

131mm
(5.1")

Accessories

FB-HD04-B-NB

4-ch HDMI Output Decoding Card

FB-HD07-B-NB

7-ch HDMI Output Decoding Card

DEU1016-B

16 HDDs 3U Disk Enclosure
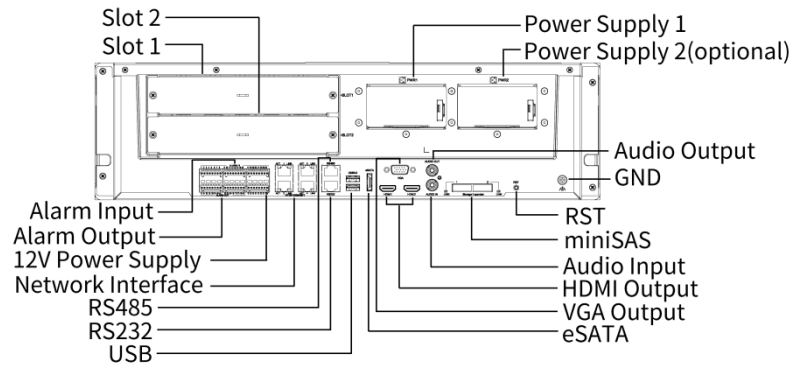

SL-A

Slide Rail

PWR-DC12-350A-IN

350W Power Accessories Module

Rear Panel

Slot 2
Slot 1
Power Supply 1
Power Supply 2(optional)
Audio Output
GND
Alarm Input
Alarm Output
12V Power Supply
Network Interface
RS485
RS232
USB
RST
miniSAS
Audio Input
HDMI Output
VGA Output
eSATA

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