DATASHEET

Network Video Recorder

NVR501-B-IQ Series

Features

- Support Ultra H.265/H.265/H.264 video formats
- 4/8/16-channel input
- Supports mainstream cameras of ONVIF conformance (Profile S, Profile G, Profile T) and RTSP protocols
- Support 1-ch HDMI, 1-ch VGA. HDMI up to 4K (3840x2160) resolution
- Support HDMI and VGA simultaneous output
- Up to 16 Megapixels resolution recording
- ANR technology to enhance the storage reliability when the network is disconnected
- Support cloud upgrade

Specifications

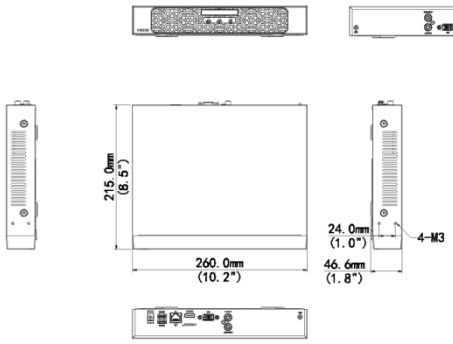
Decoding	Description
Decoding Format	Ultra 265, H.265, H.264
Decoding Capability	NVR501-04B-IQ:Smart Off: 2 x 16MP@30, 2 x 12MP@30, 4 x 4K@30 Smart On: 2 x 12MP@30, 2 x 4K@30, 4 x 4MP@30 NVR501-08B-IQ:Smart Off: 2 x 16MP@30, 2 x 12MP@30, 4 x 4K@30, 8 x 4MP@30 Smart On: 2 x 12MP@30, 2 x 4K@30, 6 x 4MP@30, 8 x 3MP@30 NVR501-16B-IQ:Smart Off: 2 x 16MP@30, 2 x 12MP@30, 4 x 4K@30, 8 x 4MP@30, 10 x 3MP@30, 16 x 1080P@30

	Smart On: 2 x 12MP@30, 2 x 4K@30, 6 x 4MP@30, 8 x 3MP@30, 12 x 1080P@30, 16 x 720P@30
Decoding Capability Description	*. The resolution of each channel cannot exceed 8192 pixels in length and 4096 pixels in width.
Audio Compression	G.711A, G.711U
Network	Description
Incoming Bandwidth	80Mbps
Outgoing Bandwidth	80Mbps
Remote Users	128
Protocols	TCP/IP; P2P; NTP; DHCP; PPPoE; HTTP; HTTPS; DNS; DDNS; SNMP; SMTP; RTSP; IPv6; IPv4
Browser(Plugin)	Windows: IE (IE10/ 11), Firefox (version 52.0 and above), Chrome (version 45 and above), Edge (version 79 and above)
Video/Audio Input	Description
IP Video Input	NVR501-04B-IQ:4-ch NVR501-08B-IQ:8-ch NVR501-16B-IQ:16-ch
RCA Audio Input	1-ch
Video/Audio Output	Description
Video Output	Support 1-ch HDMI, 1-ch VGA, HDMI and VGA simultaneous output
HDMI Output	4K(3840x2160)/30Hz, 1920x1080/60Hz, 1920x1080/50Hz, 1600x1200/60Hz, 1280x1024/60Hz, 1280x720/60Hz, 1024x768/60Hz
VGA Output	1920x1080/60Hz, 1920x1080/50Hz, 1600x1200/60Hz, 1280x1024/60Hz, 1280x720/60Hz, 1024x768/60Hz
RCA Audio Output	1-ch
Liveview Display	NVR501-04B-IQ:1/4/6/8/9 NVR501-08B-IQ/NVR501-16B-IQ:1/4/6/8/9/10/16
Corridor Mode Screen	NVR501-04B-IQ:3/4 NVR501-08B-IQ:3/4/5/7/9 NVR501-16B-IQ:3/4/5/7/9/10/12/16
Two-way Audio	Description
Two-way Audio	1-ch, RCA (Using the audio input and output)
Snapshot	Description

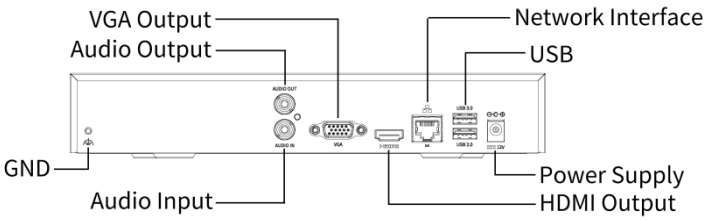
FTP/Schedule/Event Snapshot	4-ch snapshot, up to 4K resolution
Recording	Description
Recording Resolution	16MP/12MP/8MP/6MP/5MP/4MP/3MP/1080P/960P/720P/D1/2CIF/CIF
Num of Concurrent Playback	16-ch
Smart	Description
VCA Detection by IPC	Face Detection; face detection; Vehicle Detection; SIP (Intrusion 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	Face Detection; face detection; Smart Intrusion Prevention (SIP); Ultra Motion Detection (UMD)
VCA Search	Motor Vehicle Search; Non-Motor Vehicle Search; Human Body Search; General Search; People Counting Report; Heat Map; SmartSearch+; AcuSearch
Smart by IPC	All channels (up to 8 images/s in total)Face Detection, face detection, 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	4-ch
UMD by NVR	NVR501-04B-IQ:4-ch NVR501-08B-IQ/NVR501-16B-IQ:8-ch
Capacity of Snapshot Records	500 thousand records for face snapshot; One and a half millions records for SIP and vehicle
Alarm	Description
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; Array Damaged; Array Degraded
GUI Language	Description
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	Description

SATA	1 SATA Interface
Capacity	Up to 16TB for each HDD(The maximum HDD capacity varies with environment temperature and hard disk size)
External Interface	Description
Network Interface	1 RJ45 10M/100M self-adaptive Ethernet Interface
USB	Front panel: 1 x USB2.0; Rear panel: 1 x USB3.0
RS485	N/A
Alarm In	N/A
Alarm Out	N/A
Power Supply	DC 12V/2A
Working Environment	Description
Working Temperature	-10 °C ~ 50 °C (14 °F ~ 122 °F)
Working Humidity	⩽ 90% RH (non-condensing)
Power Consumption (without HDD)	⩽ 8W
Dimensions	Description
Weight (without HDD)	⩽ 1Kg (2.2lb)
Height	1U
Dimensions	260mm ×215mm × 46.6mm (10.2" ×8.5" ×1.8")
Certification	Description
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



Rear Panel



Zhejiang Uniview Technologies Co., Ltd.

No. 369, Xietong Road, Xixing Sub-district, Binjiang District, Hangzhou City, 310051, Zhejiang Province, China (Zhejiang) Pilot Free Trade Zone, China

Email: overseasbusiness@uniview.com; globalsupport@uniview.com

http://www.uniview.com

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