SN-NVR3816E2-P16-J (III)

16CH 2HDD 16CH PoE 4K NVR



Key Features

- Up to 16-ch IP cameras access
- Up to 160 Mbps incoming/outgoing bandwidth
- Up to 1-ch @ 12MP/4-ch @ 4MP/8-ch @ 1080P/16-ch D1 decoding capacity
- Supports face comparison and target search
- Support VCA alarm linkage
- Up to 4-ch perimeter protection
- Plug & Play with 16 PoE interface
- Support 1 HDMI and 1 VGA interface

Product specifications are subject to change without prior notice. For the latest Sunell product information, please visit www.sunellsecurity.com.
© 2026 Shenzhen Sunell Technology Corporation. All rights reserved.

Specifications

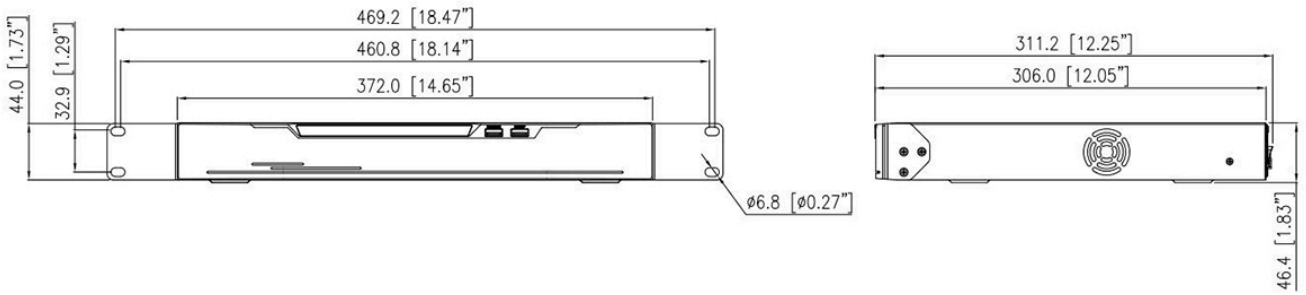
Video & Audio	
IP Camera Input	16 Channel
HDMI Output	3840 × 2160, 1920 × 1080, 1280 × 1024, 1024 × 768
VGA Output	1920 × 1080, 1280 × 1024, 1024 × 768
Different Source Output	Supported
Multi-screen Display	Default Mode (Mirrored): 1/4/8/9/16 Auxiliary Screen Mode: - Main Screen: 1/4/8 - Auxiliary Screen: 1/4/8
Decoding Capacity	1ch 12MP, 4ch 4MP, 8ch 1080P, 16ch D1 Enable Local Intelligence: 1ch 12MP, 4ch 1080P, 8ch D1, 16ch D1
IVS	
Intelligent Analysis (By NVR)	- Supports face comparison and image-based search - Supports human and vehicle attribute search - Up to 4-ch intrusion detection with human/vehicle target filtering
Intelligent Analysis (By Camera)	Intrusion, smart motion, single line crossing, double line crossing, object left, object removed, signal bad loitering, multi-loitering, abnormal speed, wrong way, illegal parking, people counting, fence, enter area, leave area, smoking detection, smoke and flame detection, fire spot detection, etc.
Trigger Event Actions	Buzzer, Push message to APP, Full screen, Email, FTP, PTZ, Speaker, Alarm out, Camera alarm out, Event recording
Smart Search	Supported
Recording	
Recording Resolution	12MP, 8MP, 6MP, 5MP, 4MP, 3MP, 1080P, 720P, D1 etc.
Recording Mode	Manual, Schedule (Regular, Continuous), Event
Dual Stream	Supported
Audio Compression	G.711A, G.711U, PCM
Playback & Backup	
Synchronous Playback	16/9/4/1
Search Mode	Time /Date, Alarm, Picture grid, Event
Playback Control	Play, pause, FF/REW, slow, digital zoom
Backup Mode	USB Device, Network
Event	
General Event	Motion Detection, Video Loss, Alarm in, Abnormal alarm, Alarm out
Abnormal Alarm	Disk Alarm, IP Address Conflict, Network Disconnect
Event Actions	Buzzer, Push message to APP, Full screen, Email, FTP, PTZ, Alarm output, Recording

Product specifications are subject to change without prior notice. For the latest Sunell product information, please visit www.sunellsecurity.com.
© 2026 Shenzhen Sunell Technology Corporation. All rights reserved.

Network	
Incoming Bandwidth	160 Mbps (112Mbps with AI enabled)
Outgoing Bandwidth	160 Mbps (112Mbps with AI enabled)
Protocols	HTTP, HTTPS, TCP/IP, IPv4, IPv6, UPnP, UDP, RTSP, SMTP, NTP, DNS, DHCP, FTP, P2P, IP Address Filtering, DDNS, IEEE 802.1X, SNMP, 3G/4G, PPPoE
Remote Users	Up to 8 users
P2P	P2P, Web NAT
Interoperability	ONVIF, SDK, CGI
Security	IP Address Filtering, User Access Log, IEEE 802.1X, TLS, Signed Firmware
Storage	
HDD	2 SATA interfaces
Capacity	Up to 12 TB per disk
ANR	Supported
Disk Group	Supported
Interface	
Network Interface	1 × RJ-45, 10/100/1000 Mbps self-adaptive Ethernet ports
PoE Interface	16 ports, 10/100Mbps, 802.3af/at, max 128 W
HDMI	1
VGA	1
Audio Interface	1 input, 1 output
Alarm Interface	8 inputs, 2 outputs
USB Interface	Front panel: 2 × USB 2.0; Rear panel: 1 × USB 2.0
Reset Button	On-board reset button
General	
Power Supply	100 to 240VAC
Power Consumption	-10 ℃ to 50 ℃ (14 °F to 122 °F)
Operating Temperature	-10 ℃ to 50 ℃ (14 °F to 122 °F)
Operating Humidity	≤ 90% RH (Non-condensing)
Certifications	CE/FCC
Dimensions	372 × 311.2 × 46.4 mm (14.65 × 12.13 × 1.83 inch)
Net Weight	2.75 kg (6.05 lb) without HDD

Product specifications are subject to change without prior notice. For the latest Sunell product information, please visit www.sunellsecurity.com.
© 2026 Shenzhen Sunell Technology Corporation. All rights reserved.

Dimensions (mm)



Rear Panel



Product specifications are subject to change without prior notice. For the latest Sunell product information, please visit www.sunellsecurity.com.
© 2026 Shenzhen Sunell Technology Corporation. All rights reserved.