ZNR-129

16-Channel 1-Bay Mini Standalone NVR



- 16 channels, 16 Free Licenses
- 1 Storage Bay(s)
- Mini Standalone NVR
- Embedded Linux
- ARM-based embedded SoC
- Audio, HDMI x 1, VGA x 1
- Built-in Core Analytics
- Forensic Search, Smart Search
- Object Visual Tracking
- Multi-Browser Support

Specifications

Product Profile

Product Type	Standalone NVR
Maximum Resolution	12MP
Maximum Number of Video Devices	16
Maximum Number of Clients	Local: 1, Remote: 128
Supported Screen Resolution	HDMI: 3840x2160 (30Hz), 1920x1080 (60Hz/50Hz), 1600x1200 (60Hz), 1280x1024 (60Hz), 1280x720 (60Hz), 1024x768 (60Hz) VGA: 1920x1080 (60Hz/50Hz), 1600x1200 (60Hz), 1280x1024 (60Hz), 1280x720 (60Hz), 1024x768 (60Hz)

Hardware

System Architecture	Embedded SoC-based (ARM platform)
CPU	ARM-based embedded SoC

License

License required	No
Free License	16

Live View

Display Layout Mode	1, 4, 6, 8, 9, 16
Fisheye Dewarping	Yes (Live View, Playback)

Local Live View performance	[Smart IVA Off] 2ch (up to 30 fps at 12MP) 2ch (up to 30 fps at 4K 3840 x 2160) 4ch (up to 30 fps at 4MP) 10ch (up to 30 fps at 2MP 1920 x 1080) 16ch (up to 30 fps at 720p) [Smart IVA On] 2ch (up to 30 fps at 4K 3840 x 2160) 4ch (up to 30 fps at 4MP) 8ch (up to 30 fps at 2MP 1920 x 1080) 16ch (up to 30 fps at 720p)
Digital Zoom	Yes
Event Status	Display event status upon alarm or upon connection loss or recovery between server and client
Instant Playback	Instant Playback in live view window

PTZ

PTZ Control	PTZ Control, Speed Control

Video

Compression	H.265, H.264

Analytics

NVR Built-in Analytics	Smart Intrusion Protection (detect people, vehicles entering/ exiting area or crossing the line), Smart Motion Detection (detect when the people, vehicles or other objects move in the predefined area), Face Detection
NVR Analytics Maximum Channels	Smart Intrusion Protection: 2 channels Smart Motion Detection: 4 channels
Object Recognition Database	Face Picture Capacity: 50,000 Vehicle Picture Capacity: 25,000
Maximum Snapshot Capacity	Captured Face Snapshots: 500 Captured Vehicle Snapshots: 500 Captured Object Snapshots via Smart Intrusion Protection: 500

Audio

Audio Type	2-way, Line-in, Line-out
Audio Compression	G.711 A-law, G.711 u-law

Network

Network Protocol & Service	IPv4, IPv6, TCP, UDP, DHCP, PPPoE, HTTP, HTTPS, DNS, DDNS, NTP, RTSP, SMTP, TLS 1.2, TLS 1.3, SNMP
Ethernet Port	1 x Ethernet (10/100 Base-T), RJ-45 connector
Maximum Outgoing Throughput	80 Mbps
Security	TLS v1.2, TLS v1.3 encrypted communication

Recording

Scheduled Recording	Yes
Event Recording	Yes
Manual Recording	Yes
Maximum Recording Throughput	80 Mbps

Search & Playback

Playback Control	Continuous forward and backward playback with speeds 1x/2x/4x/8x/16x, pause, stop, frame-by-frame
Synchronized Playback	16 channels

Smart Search	Set ROI and look for the people and vehicles appearing in the ROI in the past recordings (requires cameras with Smart Motion Detection feature)
Forensic Search	Support, Select target object (people, vehicle) and search for the similar object through all the channels
Object Visual Tracking	Support, View thumbnails generated by Forensic Search and playback by time sequence
Video Export	MP4
Snapshot Export	JPEG

Event

Event Trigger	[NVR]: Low disk space, Disk full, Disk not found, Failed to write storage, IP address conflict, Network loss. [Video Device]: Video motion detection, Tampering detection, Sound detection
Event Response	Play alert sound, E-mail notification with snapshots

System

Permission control	128 Remote users, Customizable permissions for user groups
Server Operating System	Embedded Linux
Client PC Operating System	Windows 7, Windows 8, Windows 10
USB	1-Port USB 2.0, 1-Port USB 3.0
Language	English, Traditional Chinese

Integration

ONVIF Compliant	Yes, Profile S, Profile G, Profile T
Web Browser	IE 10 or newer, Google Chrome, Firefox, Microsoft Edge

Storage

Storage Bay	SATA, Max. 1 Disk(s) (without storage disks)
HDD Size	3.5"
Maximum Recording Capacity	24TB x1
RAID Level	No

Interface

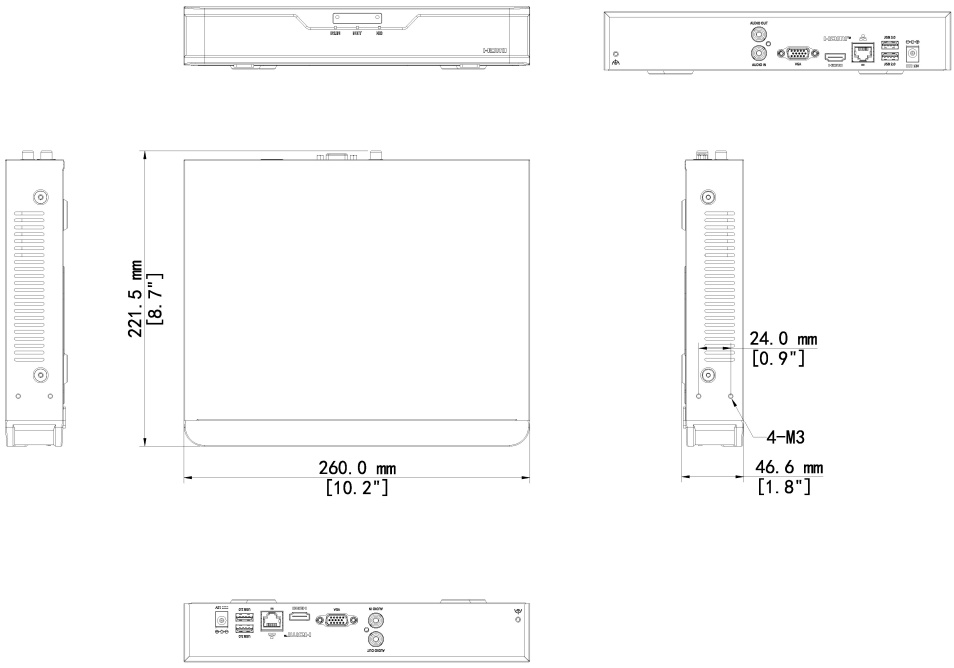
Audio Interface	1/1, RCA Jack
Local Access	USB Mouse
Local Display Interface	HDMI x 1, VGA x 1

General

Power Source	DC 12V
Power Consumption	12 W (DC, without HDD)
Dimensions	(W x H x D): 260mm x 47mm x 222mm (10.2" x 1.8" x 8.7")
Bundled Accessories	USB Mouse, Power Adapter
Fan	No
Operating Temperature	-10°C ~ 60°C (14°F ~ 140°F)

Operating Humidity	10% - 90% RH, non-condensing
Approvals	CE Class B, FCC Class B, UL Listed, BSMI
Color	Black
Warranty	2 Year(s). For extended warranty offering, see http://www.acti.com/support/warranty

Dimension Diagram



Unit: mm [inch]

Related Products

Network & Storage Peripherals - Hard Disk

PHDD-2303		WD Purple 2TB 3.5" SATA Hard Disk Drive, 5400 RPM 64 MB Cache (for ZNR-126, ZNR-127, ZNR-129, ZNR-221P, ZNR-222P, ZNR-224, ZNR-423, ZNR-424, ZNR-425, ZNR-429, ZNR-431, KNR-120, KNR-121, KNR-220P, KNR-420, KNR-421)
PHDD-2504		WD Purple 4TB 3.5" SATA Hard Disk Drive, 5400 RPM 128 MB Cache (for ZNR-126, ZNR-127, ZNR-129, ZNR-221P, ZNR-222P, ZNR-224, ZNR-423, ZNR-424, ZNR-425, ZNR-429, ZNR-431, KNR-120, KNR-121, KNR-220P, KNR-420, KNR-421)
PHDD-2703		WD Purple 6TB 3.5" SATA Hard Disk Drive, 5400 RPM 256 MB Cache (for ZNR-126, ZNR-127, ZNR-129, ZNR-221P, ZNR-222P, ZNR-224, ZNR-423, ZNR-424, ZNR-425, ZNR-429, ZNR-431, KNR-120, KNR-121, KNR-220P, KNR-420, KNR-421)

PHDD-2M00		WD Ultrastar 24TB 3.5" Hard Disk Drive, 7200 RPM 512MB Cache

Controllers - Joystick

PJSK-0102		Joystick for PTZ Control (for ZNR Series, YVR Series, KNR Series)