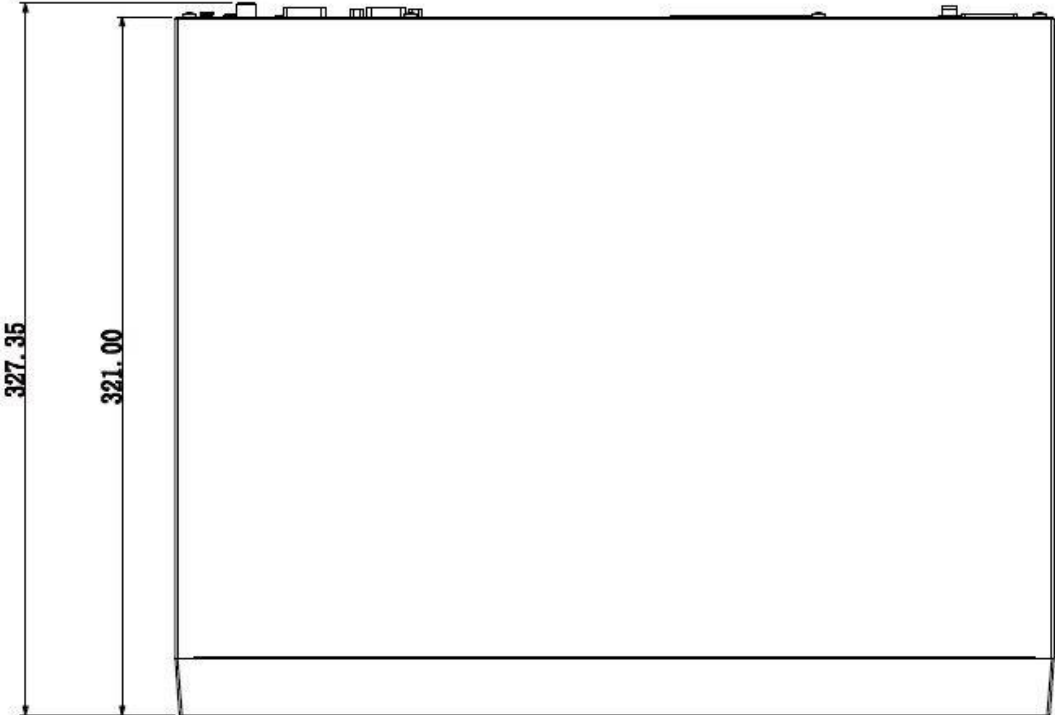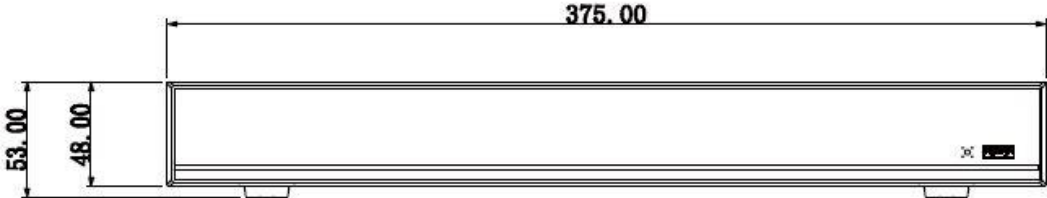# TC-NV5216-16P-4TB

Amcrest High Sensitivity VOx Thermal Network Video Recorder

Technical Specifications

Thermal NVR	TC-NV5216-16P-4TB
Main Processor	Multi-core embedded processor
Operating System	Embedded Linux
Perimeter Protection	
Performance	16 channel, 10 IVS rules for each channel
Object Classification	Human/Vehicle secondary recognition for tripwire and intrusion
AI Search	Search by target classification (Human, Vehicle)
Face Recognition	
Performance	Max 24 face pictures /sec processing (modeling and comparing), 4 channel video stream face recognition / 16 channel picture stream
Stranger Mode	Detect strangers' faces (not in device's face database). Similarity threshold can be set manually.
AI Search	Up to 8 target face images search at same time, similarity threshold can be set for each target face image.
Database Management	Up to 20 face databases with 100,000 face images in total. Name, gender, birthday, nationality, address, ID information can be added to each face picture.
Database Application	Each database can be applied to video channels independently.
Trigger Events	Buzzer, Voice Prompts, Email, Snapshot, Recording, Alarm Out, PTZ Activation, etc.
Metadata	
Face	Gender, age, glasses, beard, mask.
Vehicle	Vehicle color, vehicle model, vehicle logo, plate color, vehicle decorations, call, seatbelt.
Human Body	Tops style, tops color, bottom style, bottom color, hat, bag.
Non-motor Vehicle	Type, color, people number
AI Search	Support search target video by metadata
Audio Video	
IP Camera Input	16 Channels
Two-way Talk	1 Channel Input, 1 Channel Output, RCA
Display	
Interface	1 HDMI, 1 VGA
Resolution	HDMI/VGA: 3840 × 2160 , 1920 × 1080 , 1280 × 1024, 1280 × 720 , 1024 × 768
Decoding Capability	4-ch@8MP(30fps), 16-ch@1080P(30fps)
Multi-screen Display	1/4/8/9/16
Recording	
Bandwidth	320Mbps (160Mbps when AI function enabled)
Compression	H.265/H.264/MJPEG

Resolution	16MP, 12MP, 8MP, 6MP, 5MP, 4MP, 3MP, 1080P, 1.3MP, 720P, D1 etc.
Record Mode	Manual, Schedule (Continuous, MD(Motion Detection) , Alarm, IVS)
Record Interval	1 ~ 120 min (default: 60 min), Pre-record: 1 ~ 30 sec, Post record: 10 ~ 300 sec
Video Detection and Alarm	
Trigger Events	Alarm Out, Video Push, Email, Recording, PTZ, Tour, Snapshot, Voice Prompt, Buzzer and Screen Tips
Video Detection	Motion Detection, MD Zones: 396 (22 × 18), Video Loss, Tampering and Scene Change
Alarm Input	4 Channels
Relay Output	2 Channels
Playback and Backup	
Sync Playback	1/4/9/16
Search Mode	Time / Date / Alarm / MD and Exact Search (accurate to second)
Backup Mode	USB Device/Network
Network	
Interface	1 RJ-45 Ports (10/100/1000Mbps)
PoE	16 ports (IEEE802.3af/at), 1-8 ports support ePoE & EoC
Network Function	HTTP, HTTPS, TCP/IP, IPv4/IPv6, UPnP, SNMP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE,DDNS, FTP, Alarm, Server, IP Search (Support Dahua IP camera, DVR, NVS, etc.), P2P
Max. User Access	128 Users
Smart Phone	iPhone, iPad, Android (EasyViewer)
Interoperability	ONVIF 2.4, SDK, CGI
Storage	
Internal HDD	2 SATA III Ports, Up to 8 TB capacity for each HDD
eSATA	N/A
Auxiliary Interface	
USB	2 USB Ports (1 Rear USB 3.0 , 1 Front USB 2.0)
RS232	1 Port, for PC Communication and Keyboard
RS485	1 Port, for PTZ Control
Electrical	
Power Supply	Single, AC100V ~ 240V, 50 ~ 60 Hz
Power Consumption	NVR: <16.5W (Without HDD), PoE: Max 25.5W for single port 130W total rated power, 80% control for protection
Fan	Smart fan, automatically adjust running speed
Environmental	
Operating Conditions	-10°C ~ +55°C (+14°F ~ +131°F), 86 ~ 106kpa
Storage Conditions	-20°C ~ +70°C (-4°F ~ +158°F), 0 ~ 90% RH
Construction	
Dimensions	1U, 375mm x 327.3mm x 53mm ; (14.8" x 12.9" x 2.1")
Net Weight	2.70kg (6.0 lb) (without HDD)
Gross Weight	4.00kg (8.8 lb) (without HDD)

Dimensions

Rear Panel