TVN-2216S-2T

TruVision™ NVR 22 recorder, 16 IP channels, integrated PoE switch, 2TB, H.265 NVR

Overview

TruVision NVR 22S (TVN 22S) is a robust high performance H.264/H.265 network video recorder with 8 or 16 embedded plug & play PoE ports.
With a total bandwidth of 80/160 Mbps available, the TVN 22S is able to connect up to 8/16 IP cameras and provide real time recording (25/30 fps) at Full HD 1080p resolution on all channels simultaneously. With its fully flexible bandwidth allocation, the TVN 22S allows recording resolutions up to 8MPX at various frame rates.





Plug-&-play functionality

Setting up TVN 22S is easy. Its embedded PoE ports allow you to connect TruVision IP cameras as they were analog cameras. When plugged in, cameras are automatically assigned IP addresses, added to the recorder and set up at default configuration. Each IP camera can also be set up individually to ensure full flexibility.
The fully flexible PoE allocation feature ensures an optimally efficient use of the PoE power available.

Ease of use

TVN 22S allows users full flexibility in the way they want to configure, manage and monitor their video surveillance solution. In addition to management of the unit through its browser interface or TruVision Navigator, the TVN 22S allows users to also operate the recorder locally using its front panel controls, local VGA or HDMI outputs and its intuitive on screen display.

H.265

The TVN 22S is supporting both H.264 and H.265 compression techniques. The H.265 compression is the next evolution of video encoding. Using H.265 will result in a reduced file size for the same video content and a reduced transmission bandwidth compared to H.264. This means that for the same storage capacity more video can be stored when using H.265 than H.264 encoding.To use the H.265 encoding in the TVN 22S, TruVision H.265 cameras need to be used.

Recording performance

The maximum on-board storage capacity for the TVN 22S is 24TB, using four six TB hard drives. The hard drives can be accessed via the lockable front panel door, allowing customers to easily expand storage as their system and/or requirements grow. Recording options include continuous, event and alarm. The three modes can be combined, to ensure that the most efficient recording is possible.

Basic intrusion integration

TVN 22 has an alarmreceiver module embedded inside. The alarm message receiver can connect to up to three Interlogix IP intrusion panels that report in SIA or XSIA format.

Details

- Linux embedded Plug and Play configuration
- Up to 160 Mbps camera recording bandwidth
- Up to 16 IP channels
- Up to 16 embedded PoE camera ports
- PoE-af & PoE-at support
- Up to 24TB embedded storage (4x 6TB)
- Flip-open front panel for easy HDD access, servicing and expansion
- New icon based front panel
- Real time Full HD recording
- Motion detection, VCA, privacy masking, tamper detection
- TruVision IP camera auto-detection
- Third party camera support via ONVIF and PSIA
- IP camera configuration import/export
- Custom protocol configuration (RTSP streaming)
- Integration of Aritech IP intrusion panels via SIA/XSIA reporting
- Recorder failover functionality (one failover unit per 4 operational recorders)
- TVK-800 IP Keypad support (No display of H.265 cameras possible on LCD display)
- USB DVD burner support
- Full browser-, OSD- and software-based access for live, recorded & configuration
- TVRmobile app for iOS and Android
- TruVision Navigator license-free client/host or standalone application
- TVRmobile app for Android and iOS

Alarm messages, disarming and arming messages can be send from the alarm panel to the recorder, which then can take actions (trigger alarm recording, send a PTZ to a preset, run a shadow tour or preset tour, trigger an alarm output or send a notification message to TVRmobile). Also the heartbeat message between panel and recorder is monitored. This solution offers straightforward alarm verification and is free of charge.

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Technical specifications

General

Technology	IP
Rack mountable	Yes
Rack stacking size	1.5 U
Removable fan	No
Redundant power supply	No

Video / audio input

Camera channels	16
IP camera channels	16
Max. bandwidth per channel	16 Mbps
Camera bandwidth	160 Mbps
Max. IP audio in	16
Supported video compression standards	H.264, H.265, MPEG-4
Supported video streaming standards	Onvif, PSIA, RTSP, RTSP Custom Protocols

Local viewing

HDMI output	1
HDMI version	2.0
VGA output	1
BNC output	1
Max. local output resolution	4K
Synchronous playback OSD (channels)	Up to 16 channels
Reverse playback OSD (channels)	1

Remote viewing

Total available viewing bandwidth	256 Mbps
Max. live viewing streams	128
Max. playback viewing streams	128
Max. playback resolution web browser	8 MPX
Max. simultaneous playback web browser	Max. 16 tiles (4x4)
Reverse playback web browser (channels)	Up to 9 channels, depending on PC performance
Software compatibility	Advisor Management Software (ATS8600), TruVision Navigator, TVRmobile, Web Browser
Browser compatibility	Google Chrome, Internet Explorer, Mozilla Firefox, Safari

Storage

Storage capacity	2 TB
SATA interfaces	4
Max. capacity per SATA HDD (TB)	6
Maximum recording resolution	12 MP
Recording modes	Alarm, Event, Manual, Time-lapse high, Time-lapse low
External storage	eSATA, NAS, SAN
Hard drive redundancy	No
Hard drive grouping	No
SAS extension	No
Flip-open front panel	Yes
Auto archiving	Yes
Hot spare recorder	Yes
Edge failover recording	Yes

Networking

Network interface cards (NIC)	1
NIC type	RJ-45 10/100/1000 Mbps self-adaptive Ethernet interface
Network ports per NIC	1
PoE ports	16
Total PoE budget	200 W
PoE standards supported	PoE-af, PoE-at
Plug & Play PoE support	Yes
Flexible PoE allocation	Yes
DNS support	DDNS, ezDDNS, No-IP
HTTPS support	Yes

External interfaces

USB interface back	1
USB interface front	2
Serial interface	RS-232
Alarm inputs	16
Alarm outputs	4
Max. analog audio outputs	1

Electrical

Power supply type	100 to 240 VAC
Power consumption without HDD (W)	20 W (without enabling PoE)

Physical

Physical dimensions	442 x 371 x 74 mm (W x D x H)
Colour	Black

Environmental

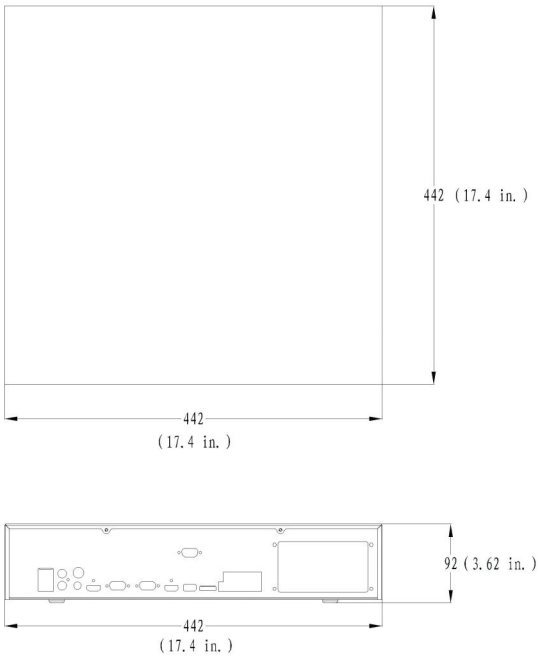
Operating temperature	-10 to +55°C (14 ºF to 131 ºF)
Relative humidity	10 to 90%

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Regulatory

Compliancy	CE, REACH, RoHS, UL



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Last updated on 6 July 2026 - 13:38