

# TVN-2216S-18T

## TruVision™ NVR 22 recorder, 16 IP channels, integrated PoE switch, 18TB, 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 alarm receiver 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 Carrier 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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## Technische specificaties

### Algemeen

Technologie	IP
Rek montage	Ja
Rack stacking size	1.5 U
Removable fan	Nee
Redundant power supply	Nee

### Entrada vídeo / áudio

Camera channels	16
IP camera channels	16
Max. bandbreedte per kanaal	16
Camera bandbreedte	160
Max. IP audio in	16
Max. analoge audio-in	1
Ondersteunde videocompressie standaarden	H.264, H.265, MPEG-4
Supported video streaming standards	Onvif, PSIA, RTSP, RTSP Custom Protocols

### Local viewing

HDMI-uitgang	1
HDMI-versie	2.0
VGA output	1
BNC-uitgang	1
Max. lokale uitgangresolutie	4K
Synchroon afspelen OSD (kanalen)	Up to 1ch
Achteruit afspelen OSD (kanalen)	Up to 9 channels, depending on PC performance

### Weergave op afstand

Totale beschikbare bandbreedte voor weergave	160
Max. aantal streams bij live weergave	128
Max. aantal streams bij afspelen	128
Max. afspeleresolutie webbrowser	8 MPX
Max. gelijktijdig afspelen webbrowser	Max. 16 tiles (4x4)
Webbrowser voor achteruit afspelen (kanalen)	Up to 9 channels, depending on PC performance
Software compatibiliteit	Advisor Management Software (ATS8600), TruVision Navigator, TVRmobile, Web Browser
Browser compatibiliteit	Google Chrome, Internet Explorer, Mozilla Firefox, Safari

### Opslag

Storage capacity	18 TB
Opslagcapaciteit (TB)	18
SATA interfaces	4
Max. capacity per SATA HDD (TB)	6
Maximale opnameresolutie	12 MP
Recording modes	Alarm, Event, Manual, Time-lapse high, Time-lapse low
Dualstream opname (kanalen)	8
External storage	eSATA, NAS, SAN
Harde schijf redundantie	Nee
Harde schijf groepering	Nee
SAS-extensie	Nee
Opklapbaar voorpaneel	Ja
Automatische archivering	Ja
Hot spare-recorder	Ja
Edge-failover opname	Ja

### Netwerken

Netwerkkinterfacekaarten (NIC)	1
Type NIC	RJ-45 10/100/1000 Mbps self-adaptive Ethernet interface
Network ports per NIC	1
PoE ports	16
Totaal PoE-budget	200 W
PoE standards supported	PoE-af, PoE-at
Plug & Play PoE support	Ja
Flexible PoE allocation	Ja
DNS ondersteuning	DDNS, ezDDNS, Geen IP
HTTPS support	Ja

### Externe interfaces

USB-interface achterzijde	1
USB interface front	2
Seriële interface	RS-232
Alarmingangen	16
Alarmuitgangen	4
Max. analoge audio-uitgangen	1

### Elektrisch

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

### Fysiek

Fysieke afmetingen	442 × 371 × 74 mm
Kleur	Zwart

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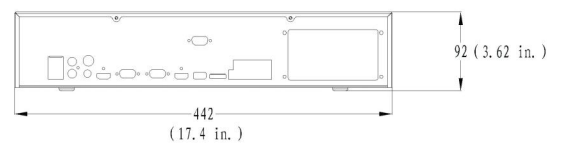
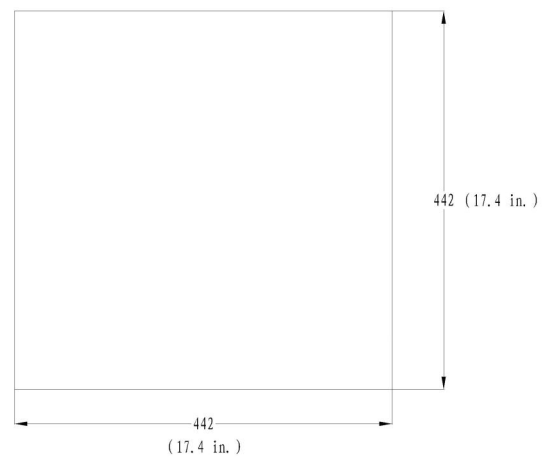
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## Omgeving

Bedrijfstemperatuur	-10 to +55°C (14°F to 131°F)
Relative humidity	10 to 90%

## Regelgeving

Compliance	CE, REACH, RoHS, UL
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