

# TVN-2116S-2T

**TruVision NVR 21, 16 IP channels, 16 PoE, H.264/MPEG-4, ONVIF/PSIA, 80 Mbps bandwidth, eSATA, HDMI/VGA/BNC, 2 TB storage**

## Overview

TruVision NVR 21S (TVN 21S) is a robust high performance embedded network video recorder with 8 or 16 embedded plug-&-play PoE ports.

Having a total bandwidth of 80/160 Mbps available, the TVN 21 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. Furthermore, with its fully flexible bandwidth allocation, the TVN 21 allows recording resolutions up to 6 MPX at various frame rates.

## Plug-&-play functionality

Setting up TVN 21S 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.

Each plug & play port can be configured to provide no power, PoE-af or PoE-at to its connected IP camera. Additionally, the fully flexible PoE allocation feature ensures an optimally efficient use of the PoE power available.

## Exceptional recording performance

To accommodate for TVN 21S's 8/16 incoming IP streams, up to 24 TB of on board storage is available, using four 6 TB hard drives. These hard drives are front side accessible, allowing customers to easily expand storage as their system and/or requirements grow. Additionally, TVN 21S supports extended external storage and backup via eSATA devices.

Furthermore, TVN 21S allows you to select from multiple recording modes; time lapse, event, alarm and manual. These can be used in various combinations, making sure data is stored in an efficient way as well as in a safe location.

## Local or remote operation

TVN 21S 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 21S allows users to also operate the recorder locally using its front panel controls, local VGA or HDMI outputs and its intuitive on screen display.



## Details

- Linux embedded Plug and Play configuration
- Up to 80/160 Mbps camera recording bandwidth
- Up to 8/16 channels to be connected
- Up to 8/16 embedded PoE camera ports
- PoE-af & PoE-at support
- Real-time Full HD recording
- Motion detection, VCA, privacy masking, tamper detection
- TruVision IP camera auto-discovery
- RAID 0/1/5/10
- Up to 24TB embedded storage (4 x 6TB)
- Flip-open front panel for easy HDD access, servicing & expansion
- IP camera configuration import/export
- Transcoding
- Custom protocol configuration (RTSP streaming)
- Native TruVision IP camera support
- Broad third party camera support through Onvif & PSIA support
- Recorder failover functionality (one failover unit per 4 operational recorders)
- TVK-800 IP Keypad support
- Text insertion support
- USB DVD burner support
- Full browser-, OSD- and software-based access for live, recorded & configuration
- TVRmobile app for iOS, Android & Windows Mobile
- TruVision Navigator license-free client/.host or standalone application
- Integration in Advisor management, OnGuard, TruPortal & MasterMind
- External integration through SDK

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## Technical specifications

### General

Technology	IP
Operating system	Embedded Linux
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
Camera bandwidth	160
Max. IP audio in	16
Max. analog audio in	1
Supported video compression standards	H.264, MPEG-4
Supported video streaming standards	Onvif, PSIA, RTSP, RTSP Custom Protocols

### Local viewing

HDMI output	1
HDMI version	1.4
VGA output	1
BNC output	1
Max. local output resolution	Full HD 1080p

### Remote viewing

Total available viewing bandwidth	160
Software compatibility	Advisor Management Software (ATS8600), MASTerMind, OnGuard, TruPortal
Browser compatibility	Internet Explorer

### Storage

Storage capacity	2 TB
SATA interfaces	4
Max. capacity per SATA HDD (TB)	6
Maximum recording resolution	6 MP
Recording modes	Alarm, Event, Manual, Time-lapse high, Time-lapse low
Dual stream recording (channels)	16
External storage	eSATA, NAS, SAN
Supported RAID levels	RAID 0, RAID 1, RAID 10, RAID 5
Hard drive redundancy	Yes
Hard drive grouping	Yes
Hot swappable HDDs	Yes (in RAID 5 configuration)
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
Max. PoE budget per port	30
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, RS-485
Alarm inputs	16
Alarm outputs	4
Max. analog audio outputs	1

### Electrical

Operating voltage	100 to 240 VAC
Power consumption without HDD (W)	260

### Physical

Physical dimensions	442 x 371 x 74 mm
Colour	Black

### Environmental

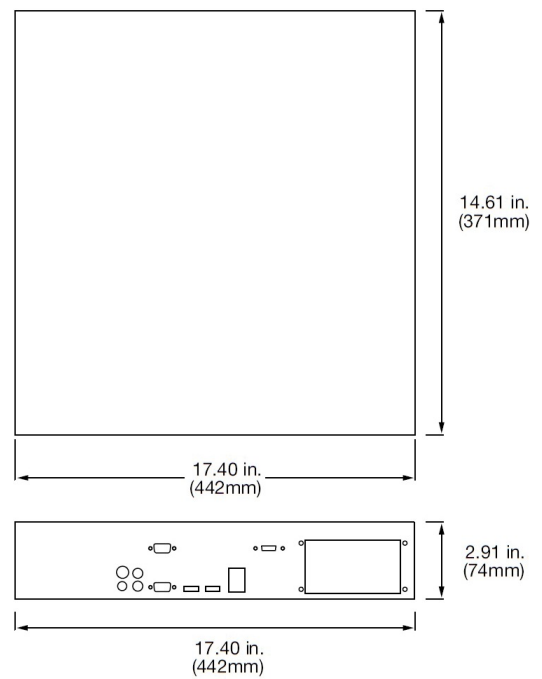
Operating temperature	-10 to +55 °C
Relative humidity	10 to 90% noncondensing

### Regulatory

Compliance	CE, REACH, RoHS, UL
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