# TVN-2108S-2T

## TruVision NVR 21, 8 IP channels, 8 PoE, H.264/MPEG-4, ONVIF/PSIA, 40 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 configuratin
- 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 | 8 |
| IP camera channels | 8 |
| Max. bandwidth per channel | 16 |
| Camera bandwidth | 80 |
| Max. IP audio in | 8 |
| 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 |
| Synchronous playback OSD (channels) | up to 8/16 channels |
| Reverse playback OSD (channels) | 1 channel |

### Remote viewing

| | |
|---|---|
| Total available viewing bandwidth | 160 |
| Max. live viewing streams | 64 |
| Max. playback viewing streams | 64 streams total, 8 streams per channel maximum |
| Max. playback resolution web browser | up to 6 MPX |
| Max. simultaneous playback web browser | 9 tiles |
| Reverse playback web browser (channels) | up to 9 channels depending on PC performance |
| 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) | 8 |
| 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 | 8 |
| Total PoE budget | 120 |
| 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 | 45 W without HDD |
| Power consumption without HDD (W) | 180 |

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### Physical

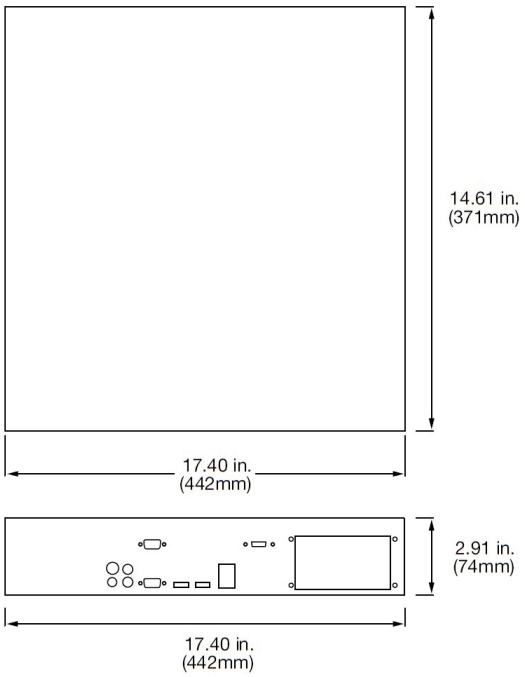
| | |
|---|---|
| Physical dimensions | 442 x 371 x 74 mm |
| Net weight | less than 8kg without HDD |
| Colour | Black |

### Environmental

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

### Regulatory

| | |
|---|---|
| Compliancy | CE, REACH, RoHS, UL |




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