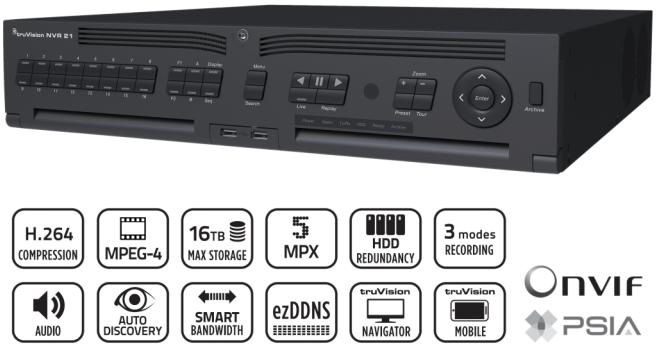
TVN-2116P-2T

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

Overview

TruVision NVR 21 (TVN 21) is a robust high performance embedded network video recorder. Its TVN 21P line provides a 2U equivalent, offering up to 48TB of embedded storage.
Having a total bandwidth of 80/160/200 Mbps available, the TVN 21 is able to connect up to 8/16/32 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.



Extended recording performance

To accommodate for TVN 21P's 8/16/32 incoming IP streams, 48 TB of on board storage is available, using eight 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 21 supports extended external storage and backup via eSATA devices or NAS.
Furthermore, TVN 21 allows you to select from three recording modes; time lapse, event and alarm. These three 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 21 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 21 allows users to also operate the recorder locally using its front panel controls, local VGA or HDMI outputs and its intuitive on screen display.

Ease of use

TVN 21 was designed to make system configuration and overall use easier for both the installer and end-users through features such as: ezDDNS, start-up wizards, plug & play hard drives, auto-discovery of natively supported cameras and most importantly, full compatibility with TruVision Navigator.

Details

- Linux embedded Plug and Play configuratin
- Up to 80/160/200 Mbps camera recording bandwidth
- Up to 8/16/32 channels to be connected
- Real-time Full HD recording
- Motion detection, VCA, privacy masking, tamper detection
- TruVision IP camera auto-discovery
- RAID 0/1/5/10
- Up to 48TB embedded storage (8 x 6TB)
- Flip-open front panel for easy HDD access, servicing & expansion
- Network redundancy
- 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	2 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
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	8
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)	2
NIC type	RJ-45 10/100/1000 Mbps self-adaptive Ethernet interface
NIC mode	Multi-address Mode, Network Redundancy
Network ports per NIC	1
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)	45

Physical

Physical dimensions	445 x 470 x 90 mm
Colour	Black

Environmental

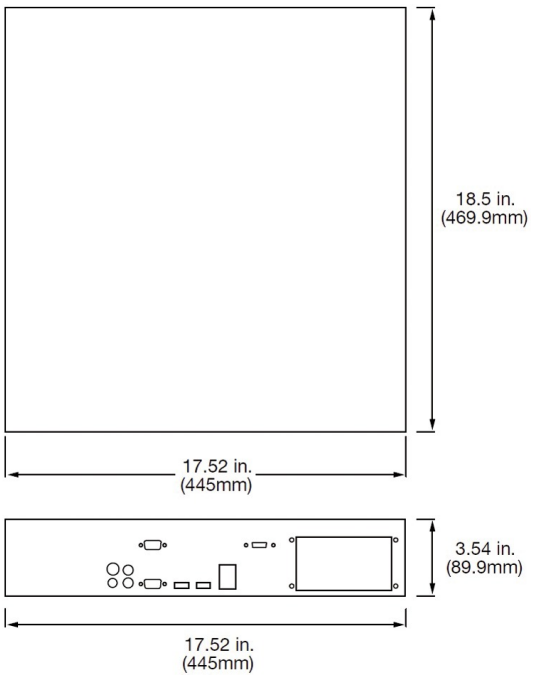
Operating temperature	-10 to +55 °C
Relative humidity	10 to 90% noncondensing

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Regulatory

Compliancy	CE, REACH, RoHS, UL



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