TVN21

TruVision™ NVR 21, 8/16 channel Full HD NVR, 1.5U

Overview

TruVision NVR 21 (TVN 21) is a robust high performance embedded network video recorder.
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.

Extended recording performance

To accommodate for TVN 21's 8/16 incoming IP streams, 24 TB of on board storage is available, using four six 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.
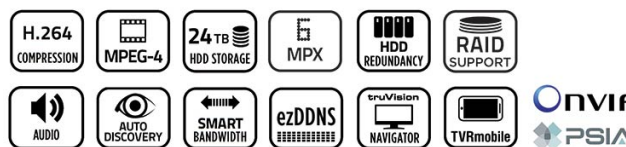Furthermore, TVN 21 allows you to select from three recording modes; time lapse, event and alarm. These three can be used in various combinations, making sure data is stored in an efficient way as well as in a safe location.

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 on the 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.

Standard Features

- Linux embedded Plug and Play configuratin
- Up to 80/160 Mbps camera recording bandwidth
- Up to 8/16 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 24TB embedded storage (4 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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Specifications

Video/Audio input

IP camera input:	Up to 8/16 channels
Total bandwidth available:	80/160 Mbps
Maximum bandwidth per channel:	16 Mbps
Average bandwidth per channel:	10 Mbps
Video compression standards supported:	H.264, MPEG-4
Bi-directional audio:	1-ch, RCA (2.0 Vp-p, 1 k Ohm)
RTSP streaming support:	Yes
Onvif support:	Yes

Viewing

OSD viewing resolutions:	Full HD 1080p, SXGA, HD 720p, UXGA, XGA
Remote viewing resolutions:	Up to 6 MPX - depending on remote client capabilities
HDMI & VGA output resolutions:	Full HD 1080p, SXGA, HD 720p, UXGA, XGA
HDMI version:	1.4
BNC output:	Yes - alarm event only, no menu controls
Digital zoom:	Up to x16

Playback

Playback resolution:	Up to 6 MPX
Synchronous playback OSD:	Up to 8/16 channels
Simultaneous playback browser:	Up to 9 tiles
Reverse playback OSD:	Up to 1ch
Reverse playback browser:	Up to 9 channels, depending on PC performance
Playback transcoding:	Yes, using web browser

Recording

Recording resolution:	6MPX / 5MPX / 3MPX / Full HD 1080p, UXGA / HD 720p / VGA / 4CIF / DCIF / 2CIF / CIF / QCIF
Internal SATA slots:	4
Maximum capacity per SATA drive:	2/4/6 TB
Recording modes:	Time lapse High, Time lapse Low, Event, Alarm, Manual
External storage:	eSATA, NAS, SAN
RAID:	0/1/5/10

Networking

Network interface:	1 RJ-45 10/100/1000 Mbps self-adaptive Ethernet interface
Network redundancy:	Yes
NIC redundancy:	Yes
Multi-address mode	Yes
ezDDNS:	Yes
DDNS:	Yes
no-IP.com:	Yes
Total viewing bandwidth available:	160 Mbps
Total Live viewing streams available:	64
Total playback viewing streams available:	64 streams total, 8 streams per channel maximum
HTTPS support:	Yes

External interface

RS-232 interface:	Yes
RS-485 interface:	Yes
USB interface:	2 x USB 2.0 (front), 1 x USB 2.0 (back)
Alarm interface:	16 alarm in (NO/NC), 4 alarm out (NO)

General

Power supply:	AC 100V~240V
Power consumption (without hard disk):	<45W
Operating temperature:	-10 °C ~ +55 °C (14 °F ~ 131 °F)
Operating humidity:	10% ~ 90%

Chassis:	1.5U rack mountable or desk-based chassis
Dimensions (W x D x H):	362 × 332 × 79 mm
Weight (without hard disk):	less than 8 kg

Operations

Local:	On screen display - VGA, HDMI or BNC (spot)
Remote:	Browser interface / TruVision Navigator / TVRmobile
Integrated:	Advisor Manager, OnGuard 7.2, TruPortal, MasterMind
Browser requirements:	IE 8 9 10 11

Ordering Information

Part No.	Description
TVN-2108-xxT	
TVN-2116-xxT	

14.61 in. (371mm)

17.40 in. (442mm)

2.91 in. (74mm)

17.40 in. (442mm)

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