Product Data Sheet



TVN21P

TruVision™ NVR 21P, 2U 8/16/32 channel Full HD Network Video Recorder

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.

Standard Features

- · 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

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.

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Specifications

Video/Audio input	Lin to 0/16/22 channels
IP camera input: Total bandwidth available:	Up to 8/16/32 channels
Maximum bandwidth per channel:	80/160/200 Mbps 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	υρ το 6 MPX
OSD: Simultaneous playback	Up to 8/16 channels
browser:	Up to 9 tiles
Reverse playback OSD:	Up to 1ch
Reverse playback browser: Playback transcoding:	Up to 9 channels, depending on PC performance Yes, using web browser
Recording	res, using web browser
	6MPX / 5MPX / 3MPX / Full HD 1080p, UXGA /
Recording resolution: Internal SATA slots:	HD 720p / VGA / 4CIF / DCIF / 2CIF / CIF / QCIF
Maximum capacity per	
SATA drive:	2/4/6 TB Time lapse High, Time lapse Low, Event, Alarm,
Recording modes:	Manual eSATA, NAS, SAN
External storage: RAID:	0/1/5/10
Networking	0/1/3/10
	1 RJ-45 10/100/1000 Mbps self-adaptive
Network interface:	Ethernet interface
Network redundancy:	Yes
NIC redundancy:	Yes
Multi-address mode	Yes Yes
ezDDNS:	Yes
no-IP.com:	Yes
Total viewing bandwidth	
available:	160 Mbps
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Total Live viewing streams available:	64
Total Live viewing streams available: Total playback viewing streams available:	64 64 streams total, 8 streams per channel maximum
Total Live viewing streams available: Total playback viewing streams available: HTTPS support:	64 64 streams total, 8 streams per channel
Total Live viewing streams available: Total playback viewing streams available: HTTPS support: External interface	64 64 streams total, 8 streams per channel maximum Yes
Total Live viewing streams available: Total playback viewing streams available: HTTPS support: External interface RS-232 interface:	64 64 streams total, 8 streams per channel maximum Yes Yes
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Total Live viewing streams available: Total playback viewing streams available: HTTPS support: External interface RS-232 interface: RS-485 interface: USB interface: Alarm interface: General	64 64 streams total, 8 streams per channel maximum Yes Yes Yes 2 x USB 2.0 (front), 1 x USB 2.0 (back)
Total Live viewing streams available: Total playback viewing streams available: HTTPS support: External interface RS-232 interface: RS-485 interface: USB interface: Alarm interface:	64 64 streams total, 8 streams per channel maximum Yes Yes Yes 2 x USB 2.0 (front), 1 x USB 2.0 (back) 16 alarm in (NO/NC), 4 alarm out (NO)
Total Live viewing streams available: Total playback viewing streams available: HTTPS support: External interface RS-232 interface: RS-485 interface: USB interface: Alarm interface: General Power supply: Power consumption	64 64 streams total, 8 streams per channel maximum Yes Yes Yes 2 x USB 2.0 (front), 1 x USB 2.0 (back) 16 alarm in (NO/NC), 4 alarm out (NO) AC 100V~240V

Chassis:	2U rack mountable or desk-based chassis
Dimensions (W x D x H):	445 x 470 x 90 mm (17.52" x 18.5" x 3.54")
Weight (without hard disk):	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-2108P-xxT	
TVN-2116P-xxT	
TVN-2132P-xxT	



