TVN-7101R-16T

TruVision NVR 71, 576 Mbps/128 channel H.265 NVR, RAID, 16TB

Overview

TruVision NVR 71 (TVN 71) is a high quality reliable embedded network video recorder. The device is able to manage up to 576 Mbps of incoming camera bandwidth, or up to 128 camera channels. The amount of incoming bandwidth will define how many cameras that can be connected.
To accommodate for these vast amounts of data, TVN 71 can be equipped with up to 96 TB of embedded storage in a non-RAID or a RAID configuration. Please note that different models of TVN 71 are available for non-RAID and RAID configurations. A non-RAID model can't be used in a RAID configuration!

Performance made accessible

TVN 71 offers higher end performance without the requirement of high end configuration. Functionality such as RAID (only with specific models!), advanced camera settings, fail-over recording, hard drive grouping, network segregation or network redundancy can be set up efficiently and easily, without the need of any advanced product training.
TVN 71 uses a similar familiar user interface as all other TruVision recorders, and can be operated by the same sets of software and apps as the whole TruVision portfolio, limiting training requirements drastically for technicians, operators and other users of the system.

H.265

The TVN 71 is supporting both H.264 and H.265 compression techniques. The H.265 compression is the next evolution of video encoding. Using H.265 will result in a reduced file size for the same video content and a reduced transmission bandwidth compared to H.264. This means that for the same storage capacity more video can be stored when using H.265 than H.264 encoding.
To use the H.265 encoding in the TVN 71, TruVision H.265 cameras need to be used.

Intrusion integration

TVN 71 has an alarm receiver module embedded inside. The alarm message receiver can connect to up to three Interlogix IP intrusion panels that report in SIA or XSIA format. Alarm messages, disarming and arming messages can be send from the alarm panel to the recorder, which then can take actions (trigger alarm recording, send a PTZ to a preset, run a shadow tour or preset tour, trigger an alarm output, send an email, send a notification message to TVRMobile or to TruVision Navigator (as of version 7.1)).
Also the heartbeat message between panel and recorder is monitored. This solution offers straightforward alarm verification and is free of charge.

Broad redundancy options

In large scale systems it is important to limit single point of failure. For this reason, TVN 71 offers a large number of redundancy features,



Details

- Linux embedded Plug and Play configuration
- Up to 576 Mbps camera recording bandwidth or max. 128 cameras
- 16 TB RAID storage , expandable via hard drive kits (4 TB, 6 TB)
- RAID 0, 1, 5, 6, 10
- Real-time Full HD recording
- Full browser-based access for live, recorded & configuration
- Motion detection, VCA, privacy masking, tamper detection
- Integration of Aritech IP intrusion panels via SIA/XSIA reporting
- TruVision IP camera auto-discovery
- Native TruVision IP camera support & broad third party camera support through ONVIF
- Customer protocol configuration (RTSP streaming)
- Flip-open front panel for easy HDD access, servicing & expansion
- Network redundancy (NIC, port, network)
- PSU redundancy
- Replaceable fan
- Recorder fail-over functionality (one fail-over unit per 4 operational recorders)
- TruVision Navigator license-free client/host or standalone application
- TVRMobile app for iOS and Android

including RAID, NIC redundancy, network port redundancy, PSU redundancy, Fail-over recording as well as Edge fail-over recording.

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Technical specifications

General

Technology	IP
Operating system	Embedded Linux
Rack mountable	Yes
Rack stacking size	3 U
Removable fan	Yes
Redundant power supply	Yes

Video / audio input

Camera channels	128
Max. bandwidth per channel	16 Mbps
Camera bandwidth	576 Mbps
Max. IP audio in	128
Max. analog audio In	1
Supported video compression standards	H.264, H.265
Supported video streaming standards	Onvif, RTSP Custom Protocols

Remote viewing

Total available viewing bandwidth	512 Mbps
Max. live viewing streams	256
Max. playback viewing streams	256
Max. connections to recorder (non-viewing)	256
Software compatibility	Advisor Management Software (ATS8600), OnGuard, TruVision Navigator, TVRmobile
Browser compatibility	Internet Explorer

Storage

Storage capacity	16 TB
SATA interfaces	16
Max. capacity per SATA HDD (TB)	6
Maximum recording resolution	8 MP
Recording modes	Alarm, Event, Manual, Time-lapse high, Time-lapse low
Dual stream recording (channels)	128
External storage	NAS
Supported RAID levels	RAID 0, RAID 1, RAID 10, RAID 5, RAID 6
Hard drive redundancy	Yes
Hard drive grouping	Yes
Hot swappable HDDs	Yes
Flip-open front panel	Yes
Auto archiving	Yes
Hot spare recorder	Yes
Edge failover recording	Yes

Networking

Network interface cards (NIC)	8 (4x RJ45; 4x SFP)
NIC type	RJ-45 10/100/1000 Mbps self-adaptive Ethernet interface
NIC mode	Load balancing, Multi-address Mode, Network Redundancy
Network ports per NIC	1
DNS support	DDNS, ezDDNS, No-IP
HTTPS support	Yes

External interfaces

USB interface back	2
USB interface front	2
Serial interface	RS-232
Alarm inputs	16
Alarm outputs	8
Max. analog audio outputs	1

Electrical

Operating voltage	100 - 240 VAC

Physical

Physical dimensions	442 x 494 x 146 mm (W x D x H)
Colour	Black

Environmental

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

Regulatory

Compliancy	CE, cUL, FCC, RCM, REACH, RoHS, UL, WEEE

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