Product Data Sheet

UTC Fire & Security
A United Technologies Company

TVN70

TruVision NVR 70, 400 Mbps / 128 channel performance NVR

Overview

TruVision NVR 70 (TVN 70) is a high quality reliable embedded network video recorder. The device is able to manage up to 400 Mbps of incoming camera bandwidth, or up to 128 camera channels.
To accommodate for these vast amounts of data, TVN 70 is equipped with up to 64 TB of embedded storage in a RAID configuration, or up to 96 TB in a non-RAID configuration.

Performance made accessible

TVN 70 offers higher end performance without the requirement of high end configuration. Functionality such as RAID, advanced camera settings, failover 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 70 uses the same 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.

Broad redundancy options

In large scale systems it is important to limit single point of failure. For this reason, TVN 70 offers a large number of redundancy features, including RAID 0/1/5/10, hard drive grouping, hard drive redundancy, NIC redundancy, network port redundancy, PSU redundancy, Failover recording as well as Edge failover recording.

Standalone or integrated

TVN 70 can be operated in a variety of ways, depending on the requirement of each individual application. The browser interface offers full functionality for viewing, playback and configuration of the device. Additionally, TruVision Navigator provides a full standalone or client/host application for managing TruVision systems.
Finally, all TruVision recorders are consistently supported by a broad set of UTC integration software packages such as Lenel OnGuard, TruPortal, Advisor Manager and Mastermind. An SDK is also available for possible integration in third party systems.

Standard Features

- Linux embedded Plug and Play configuration
- Up to 400 Mbps camera recording bandwidth
- Up to 128 IP 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 96 TB embedded storage (16 x 6TB) non-RAID
- Up to 64 TB embedded storage (16 x 4TB) RAID
- Flip-open front panel for easy HDD access, servicing & expansion
- Network redundancy (NIC, port, network)
- PSU redundancy
- Removable fan
- IP camera configuration import/export
- Transcoding
- Motion search (latest TruVision IP cameras)
- 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)
- Full browser-based access for live, recorded & configuration
- TVRmobile app for iOS, Android & Windows Mobile
- TruVision Navigator license-free client/host or standalone application
- Integration into Advisor Management, OnGuard (7.0 SP2), TruPortal (2.0), MasterMind (xx)
- External integration support through SDK

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Specifications

Video/Audio input	
Maximum bandwidth input:	400 Mbps
Maximum IP camera input:	128 channels
Maximum bandwidth per channel:	8 Mbps
Video compression standards supported:	H.264, RTSP custom protocols, Onvif
Audio input (IP)	128 channels
External interfaces	
Audio input (analog, non recording)	1-ch, RCA (2.0 Vp-p, 1 k Ohm)
Audio output:	1-ch, RCA (Linear, 600 Ohm)
Serial interface	1 RS-232 interface (configuration, maintenance, POS/ATM link)
USB interface:	1 x USB 2.0 (front), 2 x USB 3.0 (back)
Alarm interface:	16 alarm in, 8 alarm out
Recording	
Recording resolution:	6 MPX / 5 MPX / 3 MPX / 1080P / UXGA / 720P / VGA / 4CIF / DCIF / 2CIF / CIF / QCIF
SATA:	16 SATA interfaces
Maximum onboard storage capacity:	96 TB (non-RAID) / 64 TB (RAID)
Recording modes:	Time lapse High, Time lapse Low, Event, Alarm, Manual
Flip-open front panel:	Yes
Dual stream recording:	Up to 16 channels
Auto-archiving:	Yes
RAID:	0/1/5/10
Hard drive redundancy:	Yes
Hard drive grouping:	Yes
Hot spare HDDs:	Yes (in RAID 5 configuration)
External recording:	eSATA, NAS, SAN
Networking	
Network interface:	2 x 10/100/1000 Mbps self-adaptive Ethernet interface
Network ports per network interface:	1x RJ-45 & 1 x SFP
Network redundancy:	Yes
NIC redundancy:	Yes
Network port redundancy:	Yes
Multi-address mode:	Yes, up to 2 LANs
ezDDNS:	Yes
DDNS:	Yes
no-IP.com:	Yes
Total connections to recorder (non-viewing)	256
Total viewing streams available Live:	256
Total viewing streams available Playback:	TCP:256 / UDP:16
Total viewing streams available per camera channel:	128
Total viewing bandwidth available:	300~500 Mbps
Web browser viewing	
Digital zoom:	Up to x16
Playback resolution:	Up to 6 MPX (depending on monitor resolution)
Simultaneous playback browser:	16 channels, depending on PC performance
Reverse playback browser:	8 channels, depending on PC performance
General	
Power supply:	2 x 100 ~ 240 VAC, 6.3 A, 50 ~ 60 Hz
Redundant power supply:	Yes
Power consumption (without hard disk):	70W
Power consumption (with 16 x 2TB RAID hard disk):	150W
Operating temperature:	-10 to +55 ºC (14 to 131 ºF)
Operating humidity:	10% to 90%
Removable/serviceable fan:	Yes
Chassis:	3U rack mountable or desk-based chassis
Dimensions (W x D x H):	445x530x150 mm
Weight (without hard disk):	18 kg
Operations	
Local:	Quick archiving
Remote:	IP keypad / Browser interface / TruVision Navigator / TVRmobile / SDK
Browser requirements:	IE 8 9 10 11, Firefox 16 or higher, Mac Safari 8.0.5 or higher, Google Chrome 41 or lower

Ordering Information

Part No.	Description
TVN-7001-xxT	
TVN-7001R-xxT	
TVN-7001-FAN	
TVN-7001-PS	
TVN-HDD-4TB	
TVN-HDDR-4TB	
TVN-HDD-6TB	

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