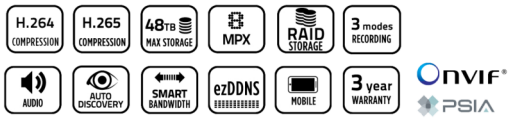
TVN-2232P-16T

TruVision™ NVR 22P recorder, 32 IP channels, 16TB, H.265 NVR, 2U

Overview

TruVision NVR 22P (TVN 22) is a robust high performance H.264/H.265 network video recorder. With a total bandwidth of 256 Mbps (16-channel) or 320Mbps (32- and 64 channel) available, the TVN 22P is able to connect up to 16/32/64 IP cameras and provide real time recording (25/30 fps) at Full HD 1080p resolution on all channels simultaneously. With its fully flexible bandwidth allocation, the TVN 22P allows recording resolutions up to 8MPX at various frame rates.



Ease of use

TVN 22P 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 is fully compatible with TruVision Navigator (as of 6.0SP1) and TVRmobile.

H.265

The TVN 22P 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 22, TruVision H.265 cameras need to be used.

Ease of use

Thanks to its 2U housing, the maximum on-board storage capacity for the TVN 2232P is 64TB, using eight 8 TB hard drives. The hard drives can be accessed via the lockable front panel door, allowing customers to easily expand storage as their system and/or requirements grow. Additionally, TVN 22P supports RAID 0,1, 5, 6 and 10 for storage redundancy. The supported RAID levels depend on the number on hard drives. Recording options include continuous, event and alarm. The three modes can be combined, to ensure that the most efficient recording is possible.

Basic intrusion integration

TVN 22P has an alarmreceiver 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 or send a notification message to TVRmobile). Also the heartbeat message between panel and recorder is monitored. This solution offers straightforward alarm verification and is free of charge.

Details

- Linux embedded Plug and Play configuration
- Up to 320 Mbps camera recording bandwidth
- Up to 32 IP channels
- Up to 64TB embedded storage (8x 8TB)
- RAID 0, 1, 5, 6 10 support (depending on the number of HDDs used)
- Flip-open front panel for easy HDD access, servicing and expansion
- New icon based front panel
- Real time Full HD recording
- Motion detection, VCA, privacy masking, tamper detection
- TruVision IP camera auto-discovery
- Third party camera support via ONVIF and PSIA
- IP camera configuration import/export
- Custom protocol configuration (RTSP streaming)
- Network redundancy
- Integration of Carrier IP intrusion panels via SIA/XSIA reporting
- Recorder failover functionality (one failover unit per 4 operational recorders)
- TVK-800 IP Keypad support (no support for local display of H.265 cameras)
- USB DVD burner support
- Full browser-, OSD- and software-based access for live, recorded & configuration
- TVRmobile app for iOS and Android
- TruVision Navigator license-free client/host or standalone application

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Technical specifications

General

Technology	IP
Rack mountable	Yes
Rack stacking size	2 U
Removable fan	No
Redundant power supply	No

Video / audio input

Camera channels	32
IP camera channels	32
Max. bandwidth per channel	16 Mbps
Camera bandwidth	320 Mbps
Max. IP audio in	32
Max. analoge audio-in	1-ch, RCA (2.0 Vp-p, 1 kohm)
Supported video compression standards	H.264, H.265, MPEG-4
Supported video streaming standards	Onvif, PSIA, RTSP, RTSP Custom Protocols

Local viewing

HDMI output	2
HDMI version	2.0
VGA output	2
BNC output	1
Max. local output resolution	4K
Synchronous playback OSD (channels)	Up to 16 channels
Reverse playback OSD (channels)	1

Remote viewing

Total available viewing bandwidth	256 Mbps
Max. live viewing streams	128
Max. playback viewing streams	128
Max. playback resolution web browser	8 MPX
Max. simultaneous playback web browser	Max. 16 tiles (4x4)
Reverse playback web browser (channels)	Up to 9 channels, depending on PC performance
Software compatibility	Advisor Management Software (ATS8600), TruVision Navigator, TVRmobile, Web Browser
Browser compatibility	Google Chrome, Internet Explorer, Mozilla Firefox, Safari

Storage

Storage capacity	16 TB
SATA interfaces	8
Max. capacity per SATA HDD (TB)	8
Maximum recording resolution	12 MP
Recording modes	Alarm, Event, Manual, Time-lapse high, Time-lapse low
External storage	eSATA, NAS, SAN
Supported RAID levels	RAID 0, RAID 1, RAID 10, RAID 5, RAID 6
Hard drive redundancy	Yes
Hard drive grouping	Yes
SAS extension	No
Flip-open frontpanel	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	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
Alarm inputs	16
Alarm outputs	4
Max. analog audio outputs	1

Electrical

Power supply type	100 to 240 VAC
Power consumption without HDD (W)	<=30 W

Physical

Physical dimensions	442 x 442 x 92 mm (W x D x H)
Colour	Black

Environmental

Operating temperature	-10 to +55°C (14 ºF to 131 ºF)
Relative humidity	10 to 90%

Regulatory

Compliancy	CE, REACH, RoHS, UL

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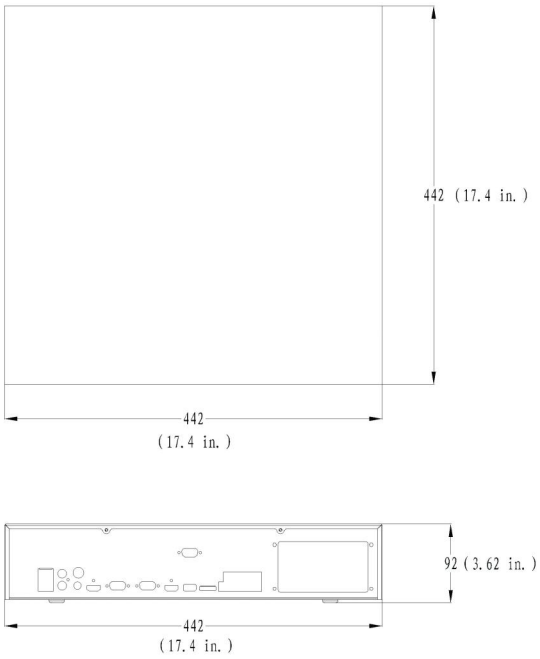

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