TVN22P

TruVision™ NVR 22P, 16/32/64 channel 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 6.0SP1 and TVRmobile 2.4.
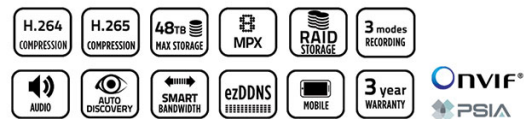
H.265

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, H.265 cameras need to be used. H.265 will be available in the TruVision S4 IP cameras.

Ease of use

Thanks to its 2U housing, the maximum on-board storage capacity for the TVN 22P is 48TB, using eight six 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 0,1,5,10 for storage redundancy. Recording options include continuous, event and alarm. The three modes can be combined, to ensure that the most efficient recording is possible.

TruVision OH

TVN 22P has the OH (Osborne-Hoffmann) alarmreceiver module embedded inside. The OH receiver is an alarm message receiver and 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

Standard Features

- Linux embedded Play and Play configuration
- Up to 256/320 Mbps camera recording bandwidth
- Up to 16/32/64 channels to be connected
- Up to 48TB embedded storage (8x 6TB)
- RAID 0,1, 5,10 support
- Flip-open front panel for easy HDD access, servicing & expansion
- New icon based front pane
- 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 UTC IP intrusion panels via SIA/XSIA reporting
- Recorder failover functionality (one failover unit per 4 operational recorders)
- TVK-800 IP keypad support (H.265 is not supported by the TVK-800)
- USD DVD burner support
- TruVision Navigator license-free client/host or standalone application (6.0SP1)
- TVRmobile app for Android and iOS

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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.

Specifications

Video/Audio input

IP camera input:	Up to 16/32/64 channels
Total bandwidth available:	IN: 256/320/320 Mbps/OUT: 256 Mbps for all models
Maximum bandwidth per channel	16 Mbps
Average bandwidth per channel	10 Mbps
Video compression standards supported	H.264, H.265, MPEG-4
Audio input/output	In: 1-ch, RCA (2.0 Vp-p, 1 kohm); Out: 2-ch, RCA (2.0 Vp-p, 1 kohm)
RTSP streaming support:	Yes
Onvif support:	Yes

Viewing

OSD viewing resolutions:	8MPX/6MPX/5MPX/4MPX/3MPX/Full HD1080p/ UXGA/HD 720p/VGA/4CIF/DCIF/2CIF/CIF/QCIF
Remote viewing resolutions	Up to 8 MPX - depending on remote client capabilities
HDMI output resolutions:	HDMI 1: 3840 × 2160/60Hz, 3840 × 2160/30Hz, 2560 × 1440/60Hz, 1920 × 1080/60Hz, 1600 × 1200/60Hz, 1280 × 1024/60Hz, 1280 × 720/60Hz,1024 × 768/60HzHDMI 2: 1920 x1080P/60 Hz, 1280 x 1024/60 Hz, 1280 x 720/60 Hz, 1024 x 768/60 Hz
VGA output resolutions	VGA 1: 2560 × 1440/60Hz, 1920 × 1080/60Hz, 1600 × 1200/60Hz, 1280 × 1024/60Hz, 1280 × 720/60Hz, 1024 × 768/60HzVGA 2:1920 × 1080P/60 Hz, 1280 × 1024/60 Hz, 1280 × 720/60 Hz, 1024 × 768/60 Hz
HDMI version:	HDMI 2.0 (compatible with 1.4)
BNC output	Yes - alarm event only, no menu controls
Digital zoom	Up to 16x

Playback

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

Recording

Recording resolution:	8MPX/6MPX/5MPX/4MPX/3MPX/Full HD 1080p, UXGA/HD 720p/VGA/4CIF/DCIF/2CIF/CIF/QCIF
Internal SATA slots:	8
Maximum capacity per SATA drive	6TB
Recording modes:	Time lapse High, Time lapse Low, Event, Alarm, Manual
External storage:	eSATA, NAS, SAN
RAID	0,1,5,10

Networking

Network interface:	2 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 bandwidth available	256 Mbps

Total Live viewing streams available	128
Total playback viewing streams available	128
HTTPS support:	Yes

External interface

RS-232 interface:	Yes
RS-485 interface	Yes (not used)
USB interface:	2 x USB 2.0 (front), 1 x USB 3.0 (back)
Alarm interface:	16 alarm in (NO/NC), 4 alarm out (NO)

General

Power supply:	AC 100V~240V
Power consumption (without hard disk)	<= 30W
Operating temperature:	-10 ºC ~ +55°C(14°°F ~131°F)
Operating humidity	10% - 90%
Chassis:	2U rack mountable or desk-based chassis
Dimensions (W x D x H):	442 x 442 x 92 mm (17.4 x 17.4 x 3.62 ")
Weight (without hard disk):	less than 10 kg

Operations

Local:	On screen display - VGA, HDMI or BNC (spot)
Remote:	Browser interface/TruVision Navigator/ TVRmobile
Browser requirements:	IE 8 9 10 11, Firefox

Ordering Information

Part No.	Description
TVN-2216P-xxT	
TVN-2232P-xxT	
TVN-2264P-xxT	

442 (17.4 in.)

442
(17.4 in.)

92 (3.62 in.)

442
(17.4 in.)

UTC Fire & Security
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