

TVN-2232P-18T

TruVision™ NVR 22P recorder, 32 IP channels, 18TB, 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 (32and 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 (with FW 1.0 max 16TB of disk space can be used for RAID). Recording options include continuous, event and alarm. The three modes can be combined, to ensure that the most efficient recording is possible.



Details

- Linux embedded Plug and Play configuration
- Up to 320 Mbps camera recording bandwidth
- Up to 32 IP channels
- Up to 48TB embedded storage (8x 6TB)
- RAID 0, 1, 5, 10 support
- 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 UTC 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

Video/audio input

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

Local viewing

Synchronous playback OSD (channels)	Up to 16 channels
Reverse playback OSD (channels)	1
HDMI output	1
VGA output	1
BNC output	1
HDMI version	2.0
Max. local output resolution	Full HD 1080p

Remote viewing

256
128
128
8 MPX
Max. 16 tiles (4x4)
Up to 9 channels, depending on PC performance
Internet Explorer, Mozilla Firefox, Safari
Advisor Manager, TruVision Navigator, TVRmobile, Web Browser

Storage Storage capacity (TB) 18 Max. capacity per SATA 6 HDD (TB) SATA interfaces 8 Maximum recording 8 MPX resolution Alarm, Event, Manual, Time-lapse high, Recording modes Time-lapse low RAID 0, RAID 1, RAID 10, RAID 5 Supported RAID levels External storage eSATA, NAS, SAN SAS extension No Flip-open front panel Yes Hard drive redundancy Yes Hard drive grouping Yes Yes Hot spare recorder Edge failover recording Yes Networking Network interface cards 2 (NIC) RJ-45 10/100/1000 Mbps self-adaptive NIC type Ethernet interface NIC mode Network Redundancy Network ports per NIC 1 DDNS, ezDDNS, No-IP DNS support HTTPS support Yes 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 256 Mbps bandwidth available Total Live viewing streams 128 available Total playback viewing 128 streams available HTTPS support: Yes External interfaces

USB interface back	1
USB interface front	2
Max. analog audio outputs 1	
Serial interface	RS-232
Alarm inputs	16
Alarm outputs	4

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Environmental

Environmental	
Operating temperature	-10 to +55°C (14 °F to 131 °F)
Relative humidity	10 to 90%
Standards & regulation	on
Compliancy	CE, REACH, RoHS, UL
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	Up to 8 MPX - depending on remote client
resolutions	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 × 768/60Hz HDMI 2: 1920 ×1080P/60 Hz, 1280 × 1024/60 Hz, 1280 × 720/60 Hz, 1024 × 768/60 Hz
VGA output resolutions	VGA 1: 2560 × 1440/60Hz, 1920 × 1080/60Hz, 1600 × 1200/60Hz, 1280 × 1024/60Hz, 1280 × 720/60Hz, 1024 × 768/60Hz VGA 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	Up to 9 channels, depending on PC
browser:	performance
Playback transcoding:	Yes, using web browser
riayouon transcouring.	

Recording Recording resolution:

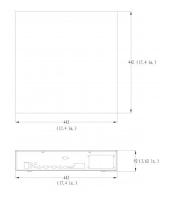
Recording resolution:	8MPX/6MPX/5MPX/4MPX/3MPX/Full HD
	1080p, UXGA/HD
	720p/VGA/4CIF/DCIF/2CIF/CIF/QCIF
Internal SATA slots:	8
Maximum capacity per	6TB
SATA drive	
Recording modes:	Time lapse High, Time lapse Low, Event,
	Alarm, Manual
External storage:	eSATA, NAS, SAN
RAID	0,1, 5, 6, 10 (With FW 1.0 max 16 TB can
	be used for RAID)

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)

Operations

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





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