

TVN-2232P-48T

TruVision™ NVR 22P recorder, 32 IP channels, 48TB, 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.



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	Up to 16 channels
OSD (channels)	
Reverse playback OSD	1
(channels)	
HDMI output	1
VGA output	1
BNC output	1
HDMI version	2.0
Max. local output	Full HD 1080p
resolution	
Remote viewing	
Total available viewing	256
bandwidth (Mbps)	
Max. live viewing streams	128
Max. playback viewing	128
streams	
Max. playback resolution	8 MPX
web browser	
Max. simultaneous	Max. 16 tiles (4x4)
playback web browser	
Reverse playback web	Up to 9 channels, depending on PC
browser (channels)	performance
Browser compatibility	Internet Explorer, Mozilla Firefox, Safari
Software compatibility	Advisor Manager, TruVision Navigator,
	TVRmobile, Web Browser

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Storage Character (TD)	40
Storage capacity (TB)	48
Max. capacity per SATA HDD (TB)	6
SATA interfaces	8
Maximum recording resolution	8 MPX
Recording modes	Alarm, Event, Manual, Time-lapse high, Time-lapse low
Supported RAID levels	RAID 0, RAID 1, RAID 10, RAID 5
External storage	eSATA, NAS, SAN
SAS extension	No
Flip-open front panel	Yes
Hard drive redundancy	Yes
Hard drive grouping	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
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	128
streams available	
HTTPS support:	Yes
External interfaces	
USB interface back	1
USB interface front	2
Max. analog audio outputs	
Serial interface	RS-232
Alarm inputs	16
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Alarm outputs

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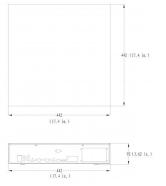
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Environmental	
Operating temperature	-10 to +55°C (14 °F to 131 °F)
Relative humidity	10 to 90%
Standards & regulation	on
Compliancy	CE, REACH, RoHS, UL
Video/Audio input	Lin to 16/00/64 channels
IP camera input: Total bandwidth available:	Up to 16/32/64 channels
rotal paridwidth 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	H.264, H.265, MPEG-4
standards supported	
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
	100
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	max. 16 tiles
browser:	
Reverse playback OSD:	Up to 1 channel
Reverse playback browser:	Up to 9 channels, depending on PC performance
Playback transcoding:	Yes, using web browser
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8MPX/6MPX/5MPX/4MPX/3MPX/Full HD 1080p, UXGA/HD
720p/VGA/4CIF/DCIF/2CIF/CIF/QCIF
8
6TB
Time lapse High, Time lapse Low, Event, Alarm, Manual
eSATA, NAS, SAN
0,1, 5, 6, 10 (With FW 1.0 max 16 TB can
be used for RAID)
Yes
Yes (not used)
2 x USB 2.0 (front), 1 x USB 3.0 (back)
16 alarm in (NO/NC), 4 alarm out (NO)
On screen display - VGA, HDMI or BNC (spot)
Browser interface/TruVision Navigator/TVRmobile

IE 8 9 10 11, Firefox

Browser requirements:





Climate | Controls | Security