

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

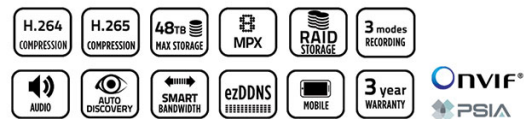
The TVN 22P is supporting both H.264 and H.265 compression techniques. The H.265 compression is the next evolution of video encoding. Using H.265 will result in a reduced file size for the same video content and a reduced transmission bandwidth compared to H.264. This means that for the same storage 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 (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.

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



Standard Features

- Linux embedded Plug 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, 6, 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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(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

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|----------------------------|---|
| 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 × 768/60Hz 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 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, 6, 10 (With FW 1.0 max 16 TB can be used for RAID) |

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

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|-------------------|---|
| 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 °C ~ +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 468 x 92 mm (17.4 x 15.67 x 3.62 ") |
| Weight (without hard disk): | less than 10 kg |

Operations

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|-----------------------|---|
| 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 | |

