# TVN-2216-2T

## TruVision™ NVR 22 recorder, 16 IP channels, 2TB, H.265 NVR, 1.5U

### Overview

TruVision NVR 22 (TVN 22) is a robust high performance H.264/H.265 network video recorder.
With a total bandwidth of 80/160/256 Mbps available, the TVN 22 is able to connect up to 8/16/32 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 22 allows recording resolutions up to 8MPX at various frame rates.

### Ease of use

TVN 22 is 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

TVN 22 is supporting both H.264 and H.265 compression techniques. The H.265 compression is the next evolution of video encoding.  The use of 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 less storage capacity is needed by H.265 than H.264 encoding for the same video duration. To use the H.265 encoding in the TVN 22, TruVision H.265 cameras need to be used.

### Recording performance

The maximum on-board storage capacity for the TVN 22 is 24TB, using four 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. 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 22 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.



H.264 COMPRESSION | H.265 COMPRESSION | 24TB MAX STORAGE | MPX | 3 modes RECORDING
AUDIO | AUTO DISCOVERY | SMART BANDWIDTH | ezDDNS | 3 year WARRANTY
ONVIF | PSIA

### Details

- Linux embedded Plug and Play configuration
- Up to 160 Mbps camera recording bandwidth
- Up to 16 IP channels
- Up to 24TB embedded storage (4x 6TB)
- 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-detection
- Third party camera support via ONVIF and PSIA
- IP camera configuration import/export
- Custom protocol configuration (RTSP streaming)
- Network redundancy
- Integration of Aritech 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
- External integration through SDK

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## Technical specifications

### General

| | |
|---|---|
| Technology | IP |
| Rack mountable | Yes |
| Rack stacking size | 1.5 U |
| Removable fan | No |
| Redundant power supply | No |

### Video / audio input

| | |
|---|---|
| Camera channels | 16 |
| IP camera channels | 16 |
| Max. bandwidth per channel | 16 Mbps |
| Camera bandwidth | 160 Mbps |
| Max. IP audio in | 16 |
| Supported video compression standards | H.264, H.265, MPEG-4 |
| Supported video streaming standards | Onvif, PSIA, RTSP, RTSP Custom Protocols |

### Local viewing

| | |
|---|---|
| HDMI output | 1 |
| HDMI version | 2.0 |
| VGA output | 1 |
| 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 | 2 TB |
| SATA interfaces | 4 |
| Max. capacity per SATA HDD (TB) | 6 |
| Maximum recording resolution | 12 MP |
| Recording modes | Alarm, Event, Manual, Time-lapse high, Time-lapse low |
| External storage | eSATA, NAS, SAN |
| Hard drive redundancy | Yes |
| Hard drive grouping | Yes |
| SAS extension | No |
| Flip-open front panel | 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) | <=20 W |

### Physical

| | |
|---|---|
| Physical dimensions | 442 x 371 x 74 mm (W x D x H) |
| Colour | Black |

### Environmental

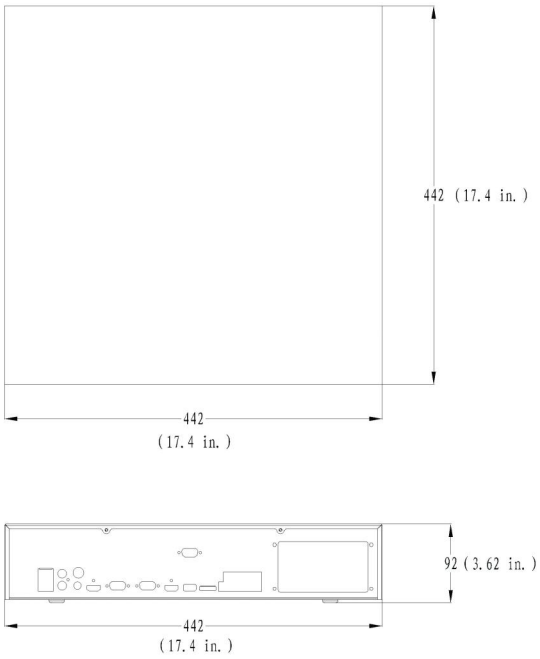
| | |
|---|---|
| Operating temperature | -10 to +55°C (14 ºF to 131 ºF) |
| Relative humidity | 10 to 90% |

### Regulatory

| | |
|---|---|
| Compliancy | CE, REACH, RoHS, UL |

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