

# TVN-2332P-32T

**TruVision™ NVR 23 recorder, 32 IP channels, 2U, 32 TB (4x 8TB)**

## Product overview

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The TruVision TVN23(S/P) is a versatile and robust network video recorder.

The recorder series is available in different channel variations, with different hard drive capacities and with or without built-in PoE ports.

The TVN2332P recorder can connect up to 32 IP cameras. The recording is using efficient H.264/H.265 encoding or smart variants (for supported cameras) to optimize the storage of important footage for all connected cameras.

In combination with our TruVision IP cameras, the TVN 23 (S/P) recorders support different events (motion detection, cross line detection, intrusion detection) with person/vehicle classification for more efficient detection and easy retrieval of recorded video and snapshots.

The UltraSync support allows the TVN23(S/P) recorders to be accessed remotely via the TVRMobile app, offering access to all UltraSync features and upcoming add-ons.

Thanks to its built-in UltraSync connectivity, can the TVN23(S/P) easily connect to the internet without the need for port forwarding or VPN. Remotely viewing video on mobile applications has never been easier.

The TVN23 can be used with Advantech ADAM 6060 I/O IP module (6 in/6 out) to expand the alarm capabilities of the recorder. Maximum 8 modules can be added to a recorder. This is supported as of firmware version 1.02.002.

## Applications

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The TVN23(S/P) recorder is suitable for small and medium sized commercial and industrial applications (such as retail stores, warehouses, offices,...) where it can be managed by the TruVision Navigator video management software.



## Details

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- Linux embedded network video recorder
- Up to 320 Mbps camera recording bandwidth
- Up to 32 IP channels
- Up to 80 TB embedded storage (8x 10TB)
- Flip-open, lockable front panel for easy HDD access. For servicing and expansion.
- UltraSync support for remote access without port forwarding
- TruVision IP camera auto-discovery
- Third party camera support via ONVIF (Profile S)
- IP camera configuration import/export
- Custom protocol configuration (RTSP streaming)
- Motion detection, VCA, privacy masking, tamper detection
- People/vehicle classification for events (only with supported TruVision cameras)
- Integration of Aritech IP intrusion panels via SIA/XSIA reporting
- Alarm extension via Advantech ADAM-6060 I/O IP module (6 in/6 out)
- POS text insertion support
- Recorder failover functionality
- Hard drive redundancy if more than one hard drive is used
- TVK-600 & TVK-610 IP keypad support
- Full browser-, OSD- and software-based access for live, recorded & configuration
- Support via TVRMobile app for iOS and Android
- Supported by TruVision Navigator license-free client/host or standalone application

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## TruVision™ NVR 23 recorder, 32 IP channels, 2U, 32 TB (4x 8TB)

### Technical specifications

#### General

|                    |       |
|--------------------|-------|
| Technology         | IP    |
| Operating system   | Linux |
| Rack mountable     | Yes   |
| Rack stacking size | 2 U   |

#### Video / audio input

|                                       |                                                |
|---------------------------------------|------------------------------------------------|
| Camera channels                       | 32                                             |
| IP camera channels                    | 32                                             |
| Max. bandwidth per channel            | 16 Mbps                                        |
| Camera bandwidth                      | 320 Mbps                                       |
| Audio compression                     | AAC, G.711alaw, G.711ulaw, G.722, G.726, MP2L2 |
| Max. IP audio in                      | 32                                             |
| Max. analog audio In                  | 1                                              |
| Supported video compression standards | H.264, H.264+, H.265, H.265+                   |
| Supported video streaming standards   | Onvif, RTSP Custom Protocols                   |

#### Local viewing

|                                     |                   |
|-------------------------------------|-------------------|
| HDMI output                         | 2                 |
| HDMI version                        | 2.0               |
| VGA output                          | 2                 |
| BNC output                          | 1                 |
| Max. local output resolution        | 8K                |
| Synchronous playback OSD (channels) | Up to 16 channels |

#### Remote viewing

|                                        |                                                                                    |
|----------------------------------------|------------------------------------------------------------------------------------|
| Total available viewing bandwidth      | 400 Mbps                                                                           |
| Max. live viewing streams              | 128                                                                                |
| Max. playback viewing streams          | 128                                                                                |
| Max. simultaneous playback web browser | Max. 16 tiles (4x4)                                                                |
| Transcoding                            | Yes                                                                                |
| UltraSync support                      | Yes, embedded                                                                      |
| Software compatibility                 | Advisor Management Software (ATS8600), TruVision Navigator, TVRmobile, Web Browser |
| Browser compatibility                  | Google Chrome, Microsoft Edge, Mozilla Firefox, Safari                             |

#### Storage

|                                  |                                         |
|----------------------------------|-----------------------------------------|
| Storage capacity                 | 32 TB                                   |
| SATA interfaces                  | 8                                       |
| Max. capacity per SATA HDD (TB)  | 10                                      |
| Maximum recording resolution     | 12 MP, 16 MP, 24 MP, 32 MP              |
| Recording modes                  | Alarm, Continuous, Event, Manual        |
| Dual stream recording (channels) | 32                                      |
| External storage                 | eSATA, NAS, SAN                         |
| Supported RAID levels            | RAID 0, RAID 1, RAID 10, RAID 5, RAID 6 |
| Hard drive redundancy            | Yes                                     |
| Hard drive grouping              | Yes                                     |
| 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 |
| 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, RS-485 |
| Alarm inputs              | 16             |
| Alarm outputs             | 9              |
| Max. analog audio outputs | 1              |

#### Electrical

|                                   |                    |
|-----------------------------------|--------------------|
| Power supply type                 | 100 to 240 VAC     |
| Power consumption without HDD (W) | 50 W (without HDD) |

#### Physical

|                     |                               |
|---------------------|-------------------------------|
| Physical dimensions | 442 x 469 x 88 mm (W x D x H) |
| Net weight          | ≤ 10 kg (without HDD)         |
| Colour              | Black                         |

#### Environmental

|                       |                             |
|-----------------------|-----------------------------|
| Operating temperature | -10 to +55°C<br>14 to 131°F |
| Relative humidity     | 10 to 90%                   |

#### Regulatory

|            |                     |
|------------|---------------------|
| Compliance | CE, REACH, RoHS, UL |
|------------|---------------------|

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## Note about RAID

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Min. disk size for RAID    4 TB per disk.

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## Alarm extension (to be purchased from Advantech or his distributors)

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Advantech ADAM-6060    6 inputs - 6 outputs  
I/O IP module

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Last updated on 29 June 2026 - 15:55