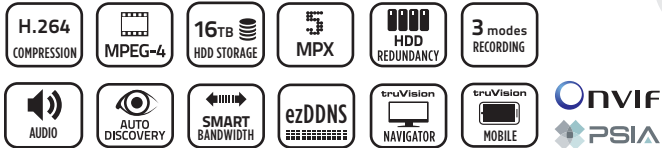


# NVR 21Plus

## 8/16/32 IP Channel Network Video Recorder



### OVERVIEW

The TruVision® NVR 21Plus (TVN 21P) is a high-performance network video recorder designed to support video streams from IP video cameras. With a total of 40/80/160 Mbps of total bandwidth available, the NVR 21Plus can support up to 32 cameras at HD resolution in real-time (30fps) and many other configurations.\* Flexible bandwidth allocation per channel allows users to maximize recording performance. In addition to browser, software and mobile device management tools, the familiar front panel controls allow for easy operation.

IP camera support includes resolutions ranging from standard VGA to 5.0 megapixel, including Interlogix and third-party IP camera manufacturers.\*\* The NVR 21Plus also supports TruVision encoders for integrating existing analog cameras. Up to eight internal hard disk drives may be configured for a total internal hard drive capacity of 4TB-16TB, making the NVR 21Plus ideal for extended storage or megapixel camera applications.

Recording options include continuous, motion, and alarm or combined scheduled recording modes. Motion recording utilizes an IP camera's built-in motion detection events, and alarms can be triggered from any of the 16 on-board alarm inputs or from alarm inputs that reside on the IP camera.

Software connectivity allows remote access to the recorder's full capabilities via Web browser or TruVision Navigator. TruVision Mobile also allows for remote device access. Configuration is quick and easy through startup wizards, IP device auto-discovery tools and ezDDNS service.

\*Reference table on page 2.

\*\*Support from third-party IP cameras may vary.

### STANDARD FEATURES

#### Camera Support

- Up to 8/16/32 HD cameras (OnVIF/PSIA) in real time (30fps)
- TruVision and UltraView IP cameras from VGA through 5.0 megapixel (indoor and outdoor)
- TruVision 4, 8 and 16-channel encoders
- PTZ and dome camera control via mouse, front panel and IR remote control

#### Recording Capabilities

- Continuous, motion or scheduled recording modes
- Event recording based upon native IP camera activity detection or via unit alarm input
- Video is stored in the native IP camera format
- Audio recording with capable IP cameras
- Redundant camera recording or independent storage groups for different durations
- Reverse playback
- Digital zoom on live and recorded video
- Text insertion via ProBridge for ATM/POS
- Watermarking for legal video authentication
- ezDDNS
- Mobile apps
- Start up Wizards for quick and easy installation
- 40/80/160 Mbps for incoming streams
- Up to 16TB of storage

#### Hardware

- Rack mountable – 2 RU
- Up to 16TB of plug-and-play internal, front accessible hard disk storage
- Support for external hard drive (eSATA)
- 16 on-board alarm inputs and 4 configurable alarm outputs
- Local USB archiving
- Composite, VGA and HDMI output for high-quality local viewing

## Specifications

| Model                              | TVN-2108P                                  | TVN-2116P  | TVN-2132P  |            |
|------------------------------------|--|--|------------|------------|
| <b>Video/<br/>Audio<br/>Input</b>  | IP Video Input                             | 8-channel  | 16-channel | 32-channel |
|                                    | Bi-directional Audio                       | 1-channel, RCA (2.0 Vp-p, 1kΩ)   |            |            |
|                                    | Total Bandwidth                            | 40Mbps   | 80Mbps     | 160Mbps    |
| <b>Video/<br/>Audio<br/>Output</b> | Recording Resolution                       | 5MP /3MP /1080P /UXGA /720P /VGA /4CIF /DCIF /2CIF /CIF /QCIF  |            |            |
|                                    | Analog Output                              | 1-channel, BNC (1.0 Vp-p, 75 Ω) resolution: 704 × 576 (PAL); 704 × 480 (NTSC)  |            |            |
|                                    | HDMI Output                                | 1-channel, resolution: 1920 × 1080P /60Hz, 1920×1080P /50Hz, 1600 × 1200/60Hz, 1280 × 1024 /60Hz, 1280 × 720 /60Hz, 1024 × 768 /60Hz |            |            |
|                                    | VGA Output                                 | 1-channel, resolution: 1920 × 1080P /60Hz, 1600 × 1200 /60Hz, 1280 × 1024 /60Hz, 1280 × 720 /60Hz, 1024 × 768 /60Hz                  |            |            |
|                                    | Audio Output                               | 2-channel, RCA (Linear, 600Ω)  |            |            |
|                                    | Playback Resolution                        | 5MP /3MP /1080P /UXGA /720P /VGA /4CIF /DCIF /2CIF /CIF /QCIF  |            |            |
|                                    | Synchronous Playback                       | 8-channel  | 16-channel | 32-channel |
| <b>Hard Disk</b>                   | SATA                                       | (8) SATA interfaces  |            |            |
|                                    | eSATA                                      | (1) eSATA interface  |            |            |
|                                    | Capacity                                   | 2TB capacity for each HDD  |            |            |
| <b>External<br/>Interface</b>      | Network Interface                          | (2) RJ-45 10 /100 /1000 Mbps self-adaptive Ethernet interfaces   |            |            |
|                                    | Serial Interface                           | (1) RS-232 interface (for parameters configuration, maintenance, transparent channel);<br>(1) RS-485 interface (reserved)            |            |            |
|                                    | USB Interface                              | (3) USB 2.0  |            |            |
|                                    | Alarm In                                   | 16   |            |            |
|                                    | Alarm Out                                  | 4  |            |            |
| <b>General</b>                     | Power Supply                               | 100~240VAC, 6.3A, 50~60Hz  |            |            |
|                                    | Consumption (without hard disk or DVD-R/W) | ≤ 45 W   |            |            |
|                                    | Working Temperature                        | -10°C ~+55°C (14°F~131°F)  |            |            |
|                                    | Working Humidity                           | 10%~90%  |            |            |
|                                    | Chassis                                    | 2U   |            |            |
|                                    | Dimensions (W x D x H)                     | 17.52 × 18.50 × 3.54 in. (445 × 470 × 90 mm)   |            |            |
|                                    | Weight (without hard disk or DVD-R/W)      | ≤ 8 Kg (17.64 lb)  |            |            |
| Rack Mount                         | Included                                   |  |            |            |

## Typical Camera Capacity Configurations TVN-2108P

| Resolution            | Frame Rate | Cameras | Recommended Days of Storage |     |      |
|-----------------------|------------|---------|-----------------------------|-----|------|
|                       |            |         | 4TB                         | 8TB | 16TB |
| 4CIF (704 x 576)      | 12/15      | 8       | 48                          | 96  | 192  |
| 4CIF (704 x 576)      | 25/30      | 8       | 24                          | 48  | 96   |
| HD (1280 x 720)       | 12/15      | 8       | 16                          | 32  | 64   |
| HD (1280 x 720)       | 25/30      | 8       | 12                          | 24  | 48   |
| UXGA (1600 x 1200)    | 12/15      | 8       | 12                          | 24  | 48   |
| UXGA (1600 x 1200)    | 25/30      | 5       | 10                          | 20  | 40   |
| Full HD (1920 x 1080) | 12/15      | 8       | 12                          | 24  | 48   |
| Full HD (1920 x 1080) | 25/30      | 4       | 10                          | 20  | 30   |
| QXGA (2048 x 1536)    | 12/15      | 5       | 10                          | 20  | 30   |
| QXGA (2048 x 1536)    | 25/30      | 3       | 10                          | 20  | 30   |
| 5 Mpx (2560 x 1920)   | 8          | 5       | 9                           | 18  | 36   |
| 5 Mpx (2560 x 1920)   | 20         | 2       | 12                          | 24  | 48   |

Note: This is an indication only; results depend on cameras used and environment.

## Typical Camera Capacity Configurations TVN-2116P

| Resolution            | Frame Rate | Cameras | Recommended Days of Storage |     |      |
|-----------------------|------------|---------|-----------------------------|-----|------|
|                       |            |         | 4TB                         | 8TB | 16TB |
| 4CIF (704 x 576)      | 12/15      | 16      | 24                          | 48  | 96   |
| 4CIF (704 x 576)      | 25/30      | 16      | 12                          | 24  | 48   |
| HD (1280 x 720)       | 12/15      | 16      | 8                           | 16  | 32   |
| HD (1280 x 720)       | 25/30      | 16      | 6                           | 12  | 24   |
| UXGA (1600 x 1200)    | 12/15      | 16      | 6                           | 12  | 24   |
| UXGA (1600 x 1200)    | 25/30      | 10      | 5                           | 10  | 20   |
| Full HD (1920 x 1080) | 12/15      | 16      | 6                           | 12  | 24   |
| Full HD (1920 x 1080) | 25/30      | 8       | 5                           | 10  | 15   |
| QXGA (2048 x 1536)    | 12/15      | 10      | 5                           | 10  | 15   |
| QXGA (2048 x 1536)    | 25/30      | 6       | 5                           | 10  | 15   |
| 5 Mpx (2560 x 1920)   | 8          | 10      | 5                           | 9   | 18   |
| 5 Mpx (2560 x 1920)   | 20         | 4       | 6                           | 12  | 24   |

Note: This is an indication only; results depend on cameras used and environment.

## Typical Camera Capacity Configurations TVN-2132P

| Resolution            | Frame Rate | Cameras | Recommended Days of Storage |     |      |
|-----------------------|------------|---------|-----------------------------|-----|------|
|                       |            |         | 4TB                         | 8TB | 16TB |
| 4CIF (704 x 576)      | 12/15      | 32      | 12                          | 24  | 48   |
| 4CIF (704 x 576)      | 25/30      | 32      | 6                           | 12  | 24   |
| HD (1280 x 720)       | 12/15      | 32      | 4                           | 8   | 16   |
| HD (1280 x 720)       | 25/30      | 32      | 3                           | 6   | 12   |
| UXGA (1600 x 1200)    | 12/15      | 32      | 3                           | 6   | 12   |
| UXGA (1600 x 1200)    | 25/30      | 20      | 3                           | 5   | 10   |
| Full HD (1920 x 1080) | 12/15      | 32      | 3                           | 6   | 12   |
| Full HD (1920 x 1080) | 25/30      | 16      | 3                           | 5   | 8    |
| QXGA (2048 x 1536)    | 12/15      | 20      | 3                           | 5   | 8    |
| QXGA (2048 x 1536)    | 25/30      | 12      | 3                           | 5   | 8    |
| 5 Mpx (2560 x 1920)   | 8          | 20      | 3                           | 5   | 9    |
| 5 Mpx (2560 x 1920)   | 20         | 8       | 3                           | 6   | 12   |

Note: This is an indication only; results depend on cameras used and environment.

# NVR 21Plus

8/16/32 IP Channel Network Video Recorder

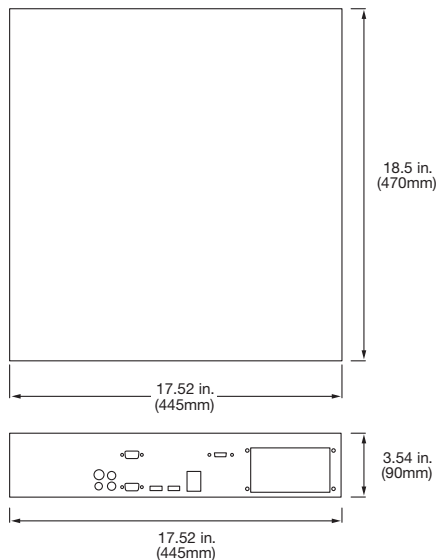
North America  
T 855-286-8889

Latin America  
T 561-998-6114

## Ordering Information

|                      |  |
|----------------------|--|
| <b>TVN-2108P-4T</b>  | TruVision® NVR 21Plus, 8-Channels, IP H.264 ONVIF/PSIA 40Mbps Bandwidth, eSATA, 4TB Storage    |
| <b>TVN-2108P-8T</b>  | TruVision NVR 21Plus, 8-Channels, IP H.264 ONVIF/PSIA 40Mbps Bandwidth, eSATA, 8TB Storage     |
| <b>TVN-2116P-4T</b>  | TruVision NVR 21Plus, 16-Channels, IP H.264 ONVIF/PSIA, 80Mbps Bandwidth, eSATA, 4TB Storage   |
| <b>TVN-2116P-8T</b>  | TruVision NVR 21Plus, 16-Channels, IP H.264 ONVIF/PSIA, 80Mbps Bandwidth, eSATA, 8TB Storage   |
| <b>TVN-2116P-12T</b> | TruVision NVR 21Plus, 16-Channels, IP H.264 ONVIF/PSIA, 80Mbps Bandwidth, eSATA, 12TB Storage  |
| <b>TVN-2116P-16T</b> | TruVision NVR 21Plus, 16-Channels, IP H.264 ONVIF/PSIA, 80Mbps Bandwidth, eSATA, 16TB Storage  |
| <b>TVN-2132P-4T</b>  | TruVision NVR 21Plus, 32-Channels, IP H.264 ONVIF/PSIA, 160Mbps Bandwidth, eSATA, 4TB Storage  |
| <b>TVN-2132P-8T</b>  | TruVision NVR 21Plus, 32-Channels, IP H.264 ONVIF/PSIA, 160Mbps Bandwidth, eSATA, 8TB Storage  |
| <b>TVN-2132P-12T</b> | TruVision NVR 21Plus, 32-Channels, IP H.264 ONVIF/PSIA, 160Mbps Bandwidth, eSATA, 12TB Storage |
| <b>TVN-2132P-16T</b> | TruVision NVR 21Plus, 32-Channels, IP H.264 ONVIF/PSIA, 160Mbps Bandwidth, eSATA, 16TB Storage |

## Dimensional Diagram



[interlogix.com](http://interlogix.com)

Specifications subject to change without notice.

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