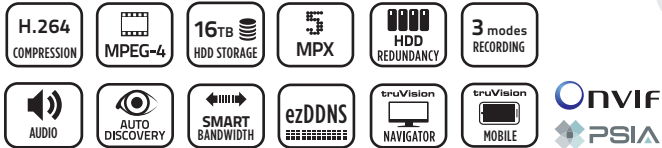


# NVR 21Plus

## 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/ Audio 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/ Audio 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 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); (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

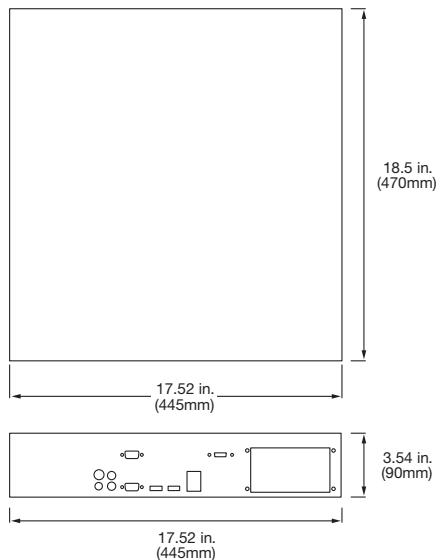
North America  
T 855-286-8889

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.

© 2014 United Technologies Corporation.

All rights reserved.

Interlogix is part of UTC Building & Industrial Systems,  
a unit of United Technologies Corporation.

403-3799 2014/03 (77863)