UTVN21P
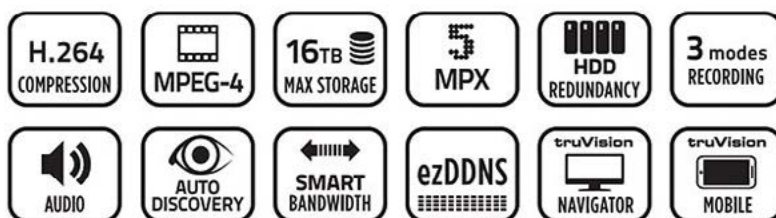## TruVision™ NVR 21P, 2U 8/16/32 channel HD Network Video Recorder

Overview

TruVision NVR 21 (TVN 21) is a robust high performance embedded network video recorder. Its TVN 21P line provides a 2U equivalent, offering up to 16TB of embedded storage. Having a total bandwidth of 40/80/160 Mbps available, the UTVN21Pis able to connect up to 8/16/32 IP cameras and provide real-time recording (25/30 fps) at HD720p resolution on all channels simultaneously. Furthermore, with its fully flexible bandwidth allocation, the UTVN21Pallows recording resolutions up to 5 MPX at various frame rates.

Extended recording performance

To accommodate for TVN 21P's 8/16/32 incoming IP streams, 16 TB of on board storage is available, using eight two TB hard drives. These hard-drives are front side accessible, allowing customers to easily expand storage as their system and/or requirements grow. Additionally, UTVN21Psupports extended external storage and backup via eSATA devices. Furthermore, UTVN21Pallows you to select from three recording modes; time lapse, event and alarm. These three can be used in various combinations, making sure data is stored in an efficient way as well as in a safe location.

Local or remote operation

UTVN21Pallows users full flexibility in the way they want to configure, manage and monitor their video surveillance solution. In addition to management of the unit through its browser interface or TruVision Navigator, the UTVN21Pallows users to also operate the recorder locally using its front panel controls, local VGA, HDMI and BNC outputs and its intuitive on screen display.

Ease of use

UTVN21Pwas designed to make system configuration and overall use easier for both the installer t and end-users through features such as: ezDDNS, start-up wizards, plug & play hard drives, auto-discovery of natively supported cameras and most importantly, full compatibility with TruVision Navigator.

UTVN21P
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KEY FEATURES	
Up to 8/16/32 IP camera streams	✓
Up to 16 TB internal storage	✓
H.264 & MPEG-4 dual-streaming	✓
Up to 5 MPX resolution support	✓
HD & Full HD real-time support	✓
Start-up wizards for quick and easy installation, search and playback	✓
Reverse video playback	✓
40/80/160 Mbps for incoming streams	✓
Flexible bandwidth management	✓
ezDDNS	✓
HDMI, VGA and composite outputs	✓
Front panel controls	✓
Operations through OSD/browser/software	✓
USB archiving or video export	✓
Three recording modes – time lapse, event & alarm	✓
TruVision & UltraView IP camera support	✓
TruVision Encoder support	✓
Compatibility with TruVision Navigator 4.0 SP6 and higher	✓

Compatibility with TVRmobile for Android & iOS phones and tablets	✓
Compatible with KTD-405U	✓
Compliant to the decree of August 3, 2007 defining the technical requirements of CCTV systems in France	✓
POS/ATM integration via ProBridge	✓

TECHNICAL DATA

VIDEO/AUDIO INPUT

IP video input:	Up to 8/16/32 channels
Total bandwidth available:	40/80 Mbps in / 80/160 Mbps out
Maximum bandwidth per channel:	16 Mbps
Average bandwidth perchannel:	5 Mbps in
Bi-directional audio:	1-ch, RCA (2.0 Vp-p, 1k Ohm)

RECORDING

Recording resolution:	5MP / 3MP / 1080P / UXGA / 720P / VGA / 4CIF / DCIF / 2CIF / CIF / QCIF
CVBS output:	1-ch, BNC (1.0 Vp-p, 75) Resolution: 704 × 576 (PAL); 704 × 480 (NTSC)
HDMI output:	1-ch, resolution: 1920 × 1080P / 60Hz, 1920×1080P / 50Hz, 1600 × 1200/ 60Hz, 1280 ×1024 / 60Hz, 1280 × 720 / 60Hz, 1024 × 768 /60Hz

RECORDING - CONTINUED	
VGA output:	1-ch, resolution: 1920 × 1080P / 60Hz, 1920×1080P / 50Hz, 1600 × 1200/ 60Hz, 1280 ×1024 / 60Hz, 1280 × 720 / 60Hz, 1024 × 768 /60Hz
Audio output:	2-ch, RCA (Linear, 600 Ohm)
Playback resolution:	5MP / 3MP / 1080P / UXGA / 720P / VGA / 4CIF / DCIF / 2CIF / CIF / QCIF
Synchronous playback:	8/16-CH
SATA:	8 SATA interfaces
eSATA:	1 eSATA interface
Capacity per HDD:	2 TB
Maximum onboard storage capacity:	16 TB
Recording modes:	Time lapse, Event, Alarm

External interface	
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 input, 1 RS-485 interface output (reserved)
USB interface:	3 x USB 2.0
Alarm interface:	16 Alarm In, 4 Alarm Out

General	
Power supply:	100 ~ 240 VAC, 6.3 A, 50 ~ 60 Hz
Power consumption (without hard disk):	45 W
Operating temperature:	-10 °C ~+55 °C (14°F~131°F)
Operating humidity:	10 % ~ 90 %
Chassis:	19-inch rack-mounted 2U chassis
Dimensions (W × D × H):	445 x 470 x 90 mm (17.52″ x 18.5″ x 3.54″) 445 x 470 x 90 mm (17.52″ x 18.5″ x 3.54″)
Weight (without hard disk):	8 Kg (17.64 lb)

Operations	
Local:	On screen display & control through front panel / USB mouse / IR remote
Remote:	Built in browser interface
Browser requirements:	Windows Internet Explorer version 6,7,8,and 9; Mozilla Firefox version 3.5 and above, Google Chrome version 8.0 and abov
Software:	TruVision Navigator 4.0 SP6 and above
Mobile applications:	TVRmobile 1.2 and above

Supported devices	
Interlogix IP cameras:	TVC, TVD, TVB, TVP, UVP, UVC, UVD
Interlogix Encoders:	TVE-400, TVE-800, TVE-1600
Third party IP cameras:	Consult IP camera compatibility list

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18.5 in.
(469.9mm)

17.52 in.
(445mm)

3.54 in.
(89.9mm)

17.52 in.
(445mm)