

TruVision™ NVR 22 recorder, 16 IP channels, 16TB, 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 6.0SP1 and TVRmobile 2.4.

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, H.265 cameras need to be used. H.265 will be available in the TruVision S4 IP cameras.

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.





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 UTC 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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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.

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Technical Specifications

Video/audio input		Networking	
Camera channels	16	Network interface cards	2
IP camera channels	16	(NIC)	
Max. bandwidth per	16	NIC type	RJ-45 10/100/1000 Mbps self-adaptive
channel			Ethernet interface
Camera bandwidth (Mbps		NIC mode	Network Redundancy
Max. IP audio in	16	Network ports per NIC	1
Supported video	H.264, H.265, MPEG-4	DNS support	DDNS, ezDDNS, No-IP
compression standards		HTTPS support	Yes
Supported video streaming standards	Onvif, PSIA, RTSP, RTSP Custom Protocols	Network interface:	2 RJ-45 10/100/1000 Mbps self-adaptive Ethernet interface
Local viewing		Network redundancy:	Yes
Local viewing	11 1 10 1	NIC redundancy:	Yes
Synchronous playback	Up to 16 channels	Multi-address mode	Yes
OSD (channels)		ezDDNS:	Yes
Reverse playback OSD	1	DDNS:	Yes
(channels)		no-IP.com:	Yes
HDMI output	1	Total viewing bandwidth	256 Mbps
VGA output	1	available:	
BNC output	1	Total Live viewing streams	128
HDMI version	2.0	available:	
Max. local output	Full HD 1080p	Total playback viewing	128
resolution		streams available:	
Remote viewing		HTTPS support:	Yes
Total available viewing	256	External interfaces	
bandwidth (Mbps)		USB interface back	1
Max. live viewing streams	128	USB interface front	2
Max. playback viewing	128	Max. analog audio outputs	
streams		Serial interface	RS-232
Max. playback resolution	8 MPX	Alarm inputs	16
web browser		Alarm outputs	4
Max. simultaneous	Max. 16 tiles (4x4)	, name carpate	·
playback web browser		General	
Reverse playback web	Up to 9 channels, depending on PC	Rack stacking size	1.5 U
browser (channels)	performance	Removable fan	No
Browser compatibility	Internet Explorer, Mozilla Firefox, Safari	Redundant power supply	No
Software compatibility	Advisor Manager, TruVision Navigator,	Rack mountable	Yes
	TVRmobile, Web Browser	Power supply:	AC 100V~240V
Storage		Power consumption	<=20W
Storage capacity (TB)	16	(without hard disk):	
	6	Operating temperature:	-10 °C ~ +55 °C (14 °F ~ 131 °F)
Max. capacity per SATA HDD (TB)	Ö	Operating humidity:	10% ~ 90%
SATA interfaces	4	Chassis:	1.5U rack mountable or desk-based
Maximum recording	8 MPX		chassis
resolution	OIVIFA	Dimensions (W x D x H):	442 × 398 × 74 mm (17.4 × 15.67 × 2.91 ")
Recording modes	Alarm, Event, Manual, Time-lapse high,	Weight (without hard disk)	: less than 5 kg
	Time-lapse low	Electrical	
External storage	eSATA, NAS, SAN	Power consumption	~-20 W
SAS extension	No	•	<=20 W
Flip-open front panel	Yes	without HDD (W)	100 to 240 VAC
Hard drive redundancy	Yes	Power supply type	100 to 240 VAC
Hard drive grouping	Yes	Physical	
Hot spare recorder	Yes	Physical dimensions	442 × 371 × 74 mm
Edge failover recording	Yes	Colour	Black
		20.00.	

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Video/Audio input

IP camera input:	Up to 8/16/32 channels
Total bandwidth available:	IN:80/160/256 Mbps/OUT:256 Mbps for all
	models
Maximum bandwidth per channel:	16 Mbps
Average bandwidth per	10 Mbps
channel:	
Video compression	H.264, H.265, MPEG-4
standards supported:	
Bi-directional audio:	1-ch, RCA (2.0 Vp-p, 1 kohm)
RTSP streaming support:	Yes
3 - 1 - 1 - 1	165
Onvif support:	Yes

OSD viewing resolutions:	8MPX/6MPX/5MPX/4MPX/3MPX/1080p/UX0
Remote viewing	Up to 8 MPX - depending on remote client
resolutions:	capabilities
HDMI output resolutions:	3840 x 2160/60Hz, 3840 x 2160/30Hz,
	1920 x 1080/60Hz, 1600 x 1200/60Hz,
	1280 x 1024/60Hz, 1280 x 720/60Hz, 1024
	x 768/60Hz
HDMI version:	HDMI 2.0 (compatible with 1.4)

Playback

Playback resolution:	Up to 8 MPX
Simultaneous playback	Up to 8/16 channels
OSD:	
Simultaneous playback	Max. 16 tiles (4x4)
browser:	
Reverse playback OSD:	Up to 1 ch.
Reverse playback OSD: Reverse playback	Up to 1 ch. Up to 9 channels, depending on PC
	-
Reverse playback	Up to 9 channels, depending on PC

Recording

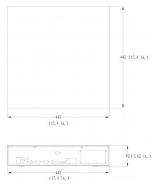
Recording resolution:	1080p/UXGA/HD 720p/VGA/4CIF/DCIF/2CIF /CIF/QCIF
Internal SATA slots:	4
Maxmlum capacity per SATA drive:	6TB
Recording modes:	Time lapse High, Time lapse Low, Event, Alarm, Manual
External Sstorage	eSATA, NAS, SAN

External interface

RS-232 interface:	Yes
RS-485 interface:	Yes (not used)
USB interface:	2 x USB 2.0 (front), 1 x USB 3.0 (back)
Alarm interface:	16 alarm in (NO/NC), 4 alarm out (NO)

Operations

Local:	On screen display - VGA, HDMI or BNC (spot)
Remote:	Browser interface/TruVision
	Navigator/TVRmobile
Browser requirements:	IE 8 9 10 11, Firefox



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