truVision

NVR 20

8 or 16 IP Channel Network Video Recorder

OVERVIEW

The TruVision™ NVR 20 (TVN 20) is a network video recorder designed to support video streams from IP video cameras. IP camera support includes resolutions from standard resolution to 5 Megapixel from Interlogix and third party IP camera manufacturers. The NVR 20 also supports the Interlogix UltraView™ Encoder 10 H.264 for integrating existing analog cameras.

Up to 8 or 16 video inputs may be configured and internal hard drive capacity ranging from 2TB-16TB makes the TVN 20 ideal for extended storage or megapixel camera applications. Additionally, hard drives may be configured to provide redundant recording for multiple cameras.*

Recording options include Continuous, Motion, and Alarm or combined scheduled recording modes. Motion recording utilizes an IP camera's built-in motion detection events. 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 full capabilities of the recorder via Web browser or TruVision Navigator. The TVN 20 is easy to configure through IP device auto-discovery tools, and embedded processor technology allows device administration as a network appliance.

*Support from 3rd party IP cameras may vary.

STANDARD FEATURES

IP Camera Support
- Up to 8 or 16 IP cameras based upon model
- CamPlus™ 2 IP, UltraView IP plus TruVision 1.3 and 2.0 megapixel cameras
- H.264 Axis, Arecont, ACTi and other IP camera manufacturers (VGA and Megapixel)
- UltraView Encoder 10 Single-channel H.264 Encoder

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

Hardware
- Compact rack mountable – 2 RU
- Up to 16TB of internal storage front accessible drives
- GB ethernet connectivity
- 16 on-board alarm inputs and 4 configurable alarm outputs
- Local USB archiving

Simple to configure and install
- TruVision device finder (discovery of select TruVision DVRs/NVRs and IP cameras)
- IP Camera auto-discovery in TVN 20 browser
- Configuration and viewing via TVN 20 browser or TruVision Navigator software
- No IP camera licensing

Specifications

Physical

Dimensions (W x H x D)	17.72 x 17.72 x 3.74 in. (450 x 450 x 95mm)
Weight	8-Ch 2TB: 21.98lbs (9.97kgs); 8-Ch 8TB: 26.61lbs (12.07kgs); 16-Ch 4TB: 23.52lbs (10.67kgs); 16-Ch 16TB: 32.78lbs (14.87kgs)
Input Voltage	100-240VAC, 6.3A, 50-60Hz
Power Consumption	8-Ch 2TB (8-IP Cameras) to 16-Ch 16TB (16 IP Cameras): 29.07W to 57.67W
Operating Temperature	32°-104°F (0°-40°C) 10-90% Humidity (non-condensing)
Hard Drives	8-Ch: 1, 2, 4 HDD SATA @ 2TB per drive 16-Ch: 2, 4, 8 HDD SATA @ 2TB per drive
Mounting	Rack Mount 19" – 2U (rack mount ears included)

Network & Connnectors

Type	10/100/1000 Base-T, RJ-45
Protocol	TCP, IP, UDP, ARP, RARP, PPP, PPPoE, DHCP, SNMP
Alarm Input	16 programmable NO/NC (Rear)
Alarm Output	4 Form C Relay (Rear)
USB	USB 2+, (2) Unit Front – for local archive-off
eSATA	Future Use (Rear)
RS-232	RJ-45 (Troubleshooting Only)
RS-485	Future Use (Rear)
Audio	No Connectors – from IP Camera (record only, if supported)

Video & Record Parameters

# of Channels	8 or 16-Channel (based upon model)
Supported IP Compression	H.264, MPEG4 (depending on supported IP camera models)
Supported Resolutions	4CIF, VGA, SVGA, XGA, SXGA, UXGA, QXGA (depending on supported IP camera model)
Recording Modes	Continuous, Motion Activated or Scheduled (Motion activated recording based upon internal IP camera activity detection for supported models)

Miscellaneous

NVR 20 Operating System	Linux
Health Monitoring	Various conditions including: HDD Fault/Failure, IP Address Conflicts, IP Camera Off-Line Notification, HDD Read/Write Failures, Network Fault
User Rights	3-Levels: Administrator, Operator, Guest
Remote Browser PC Requirements	**Processor:** Intel E6550 Dual Core 2.33 Ghz, 4MB Cache (Minimum); Intel I5 750 Quad Core 2.66 Ghz, 8MB Cache (Recommended) **Memory:** 1GB RAM (Minimum) 4GB RAM (Recommended) **Graphics Card:** HD Video with 256 MB HD Video with 1GB **Operating System:** Windows 2000, Windows XP, Windows Vista **Browser Environment:** Internet Explorer 6+(ONLY – Internet Explorer)

IP Camera Support – Refer to TVN 20 IP Camera Compatibility Chart for latest updates

Interlogix	CamPlus™ 2, UltraView™ Encoder 10, UltraView IP, TruVision™ 1.3/2.0 MpX
Axis	216MFD, M1114, M3011, M3014, P1346E, P3301 (ONVIF), P3304 (ONVIF), P3343 (ONVIF), P3344 (ONVIF)
Arecont	AV1305, AV1315, AV1355, AV2105DN, AV2155, AV2805DN, AV2815, AV3105, AV3155, AV5105, AV5155
ACTi	TCM4301, TCM5311, TCM5611, TCM7411
Panasonic	NS201A, NS954, WV-NF285, WV-NP244, WV-NW484S

Typical capacity configurations

Examples For A Single Type of Camera	Model	
	16 channel	8 channel
Max # of cams using VGA/4CIF only	16	8
Max # of cams using 1.3Mpx only	8	4
Max # of cams using 2.0Mpx only	4	2
Max # of cams using TruVision 2.0Mpx only	8	4
Recommended Storage*		
10 days	4TB	2TB
20 days	8TB	4TB
40 days	16TB	8TB

Examples for Mixed Camera Types-Standard Definition and 1.3Mpx Cameras	Model													
	16 channel									8 channel				
# of VGA/4CIF cams/encoders	16	14	12	10	8	6	4	2	0	8	6	4	2	0
# of 1.3Mpx cams	0	1	2	3	4	5	6	8	8	0	1	2	3	4
Total Cameras	**16**	**15**	**14**	**13**	**12**	**11**	**10**	**10**	**8**	**8**	**7**	**6**	**5**	**4**
Recommended Storage*														
10 days	4TB									2TB				
20 days	8TB									4TB				
40 days	16TB									8TB				

Examples for Mixed Camera Types-Standard Definition and 2.0Mpx Cameras	Model							
	16 channel					8 channel		
# of VGA/4CIF cams/encoders	16	12	8	4	0	8	4	0
# of 2.0Mpx cams**	0	1	2	4	4	0	1	2
Total Cameras	**16**	**13**	**10**	**8**	**4**	**8**	**5**	**2**
Recommended Storage*								
10 days	4TB					2TB		
20 days	8TB					4TB		
40 days	16TB					8TB		

*Storage estimates based on settings below and may vary by actual configuration and installation.

VGA/4CIP	25fps/30fps, Bit Rate: 2Mbps
1.3 Mpx	25fps/30fps, Bit Rate: 4Mbps
2.0 Mpx	12.5fps/15fps, Bit Rate: 2Mbps

**Additional performance possible when using TruVision 2.0 Mpx Cameras	Model							
	16 channel					8 channel		
# of 2.0Mpx cams 12.5 fsp/15fps or fewer, Bit Rate : 4 Mpbs	0	2	4	6	8	0	2	4

NVR 20

8 or 16 IP Channel Network
Video Recorder

Ordering Information

TVN-2008-2T	TruVision NVR 20: 8-Ch IP Camera Network Video Recorder, 2TB Storage
TVN-2008-4T	TruVision NVR 20: 8-Ch IP Camera Network Video Recorder, 4TB Storage
TVN-2008-8T	TruVision NVR 20: 8-Ch IP Camera Network Video Recorder, 8TB Storage
TVN-2016-4T	TruVision NVR 20: 16-Ch IP Camera Network Video Recorder, 4TB Storage
TVN-2016-8T	TruVision NVR 20: 16-Ch IP Camera Network Video Recorder, 8TB Storage
TVN-2016-16T	TruVision NVR 20: 16-Ch IP Camera Network Video Recorder, 16TB Storage

Dimensional Diagram

17.72 in. (450 mm)

3.74 in. (95 mm)

17.72 in. (450 mm)
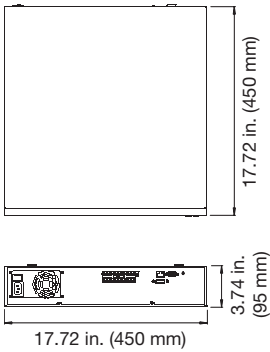
Specifications subject to change without notice.

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