#### **Product data sheet**



# TVN-1116S-2T

### TruVision NVR 11, 16 channels, 16 channel PoE, 160 Mbps, 2 TB

#### Overview

TruVision NVR 1116S (TVN 1116S) is a cost effective network video recorder for sixteen IP video cameras. The recorder has sixteen built-in PoE ports for ease of installation. With a total of 160 Mbps of incoming bandwidth available, it can support up to sixteen cameras at Full HD resolution (1080P) in real time (25 fps).

#### Ease of use & flexibility

TVN 11S is designed to be flexible – not only in its deployment and product selection, but also in its day-to-day operations.

Setting up TVN 11S is easy. Its embedded PoE ports allow you to connect IP cameras as they were analog cameras. When plugged in, cameras are automatically assigned IP addresses, are added to the recorder and set up to default configuration. Each IP camera can also be set up individually to ensure full flexibility.

The power for each plug & play port can be configured via the recorder's user interface.

The unit can be fully controlled locally using the front panel buttons and mouse, displaying high resolution Full HD video on its local VGA monitor or even at 4K resolution on the HDMI video output.

Alternatively, TVN 11S can be operated remotely using its full featured web browser interface or using the TruVision Navigator and TVRMobile software applications.

#### H.265

TVN 11S supports both H.264 and H.265 compression techniques. H.265 compression is the next evolution in video encoding. Compared to H.264, using H.265 will reduce the file size for the same video content and reduce transmission bandwidth. This means that less storage capacity is needed by H.265 than H.264 encoding for the same video duration. H.265 encoding in the TVN 11S requires that H.265 TruVision IP cameras are used.

#### **Basic intrusion integration**

TVN 11S can receive SIA or XSIA alarm messages from up to three Interlogix IP intrusion panels. Alarm messages, disarming and arming messages can be sent from the alarm panel to the recorder, which then can execute actions (ex. trigger alarm recording, send an email, send a PTZ to a preset, ...). Also the heartbeat message between panel and recorder is monitored. This solution offers straightforward alarm verification and is free of charge.



#### Details

- Linux embedded Plug and Play configuration
- Supports H.264 and H.265
- Sixteen Plug & Play PoE ports (PoE-af & PoE-at support)
- Flexible PoE budgetting
- Automatic setup of IP address, resolution & other settings through Plug&Play ports
- Up to 160 Mbps camera recording bandwidth for maximum sixteen IP cameras
- 2 TB embedded storage
- · Icon based front panel
- Real time Full HD recording
- Up to 4K resolution support
- Motion detection, VCA, privacy masking and tamper detection
- TruVision IP camera auto-detection
- Third party camera support via ONVIF Profile S or RTSP (custom protocols)
- IP camera configuration import/export
- Integration of Carrier IP intrusion panels via SIA/XSIA reporting
- 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 video
   & configuration
- TVRMobile app for iOS and Android
- TruVision Navigator license-free client/host or standalone application
- External integration through SDK

# TVN-1116S-2T

## TruVision NVR 11, 16 channels, 16 channel PoE, 160 Mbps, 2 TB

### **Technical specifications**

Rack mountable Yes Rack stacking size 1 U  Video/audio input  IP camera channels 16 Camera bandwidth 160 Mbps Max. IP audio in 1  Supported video H.264, H.265 compression standards  Local viewing HDMI output 1 HDMI version 1.4, 2.0 VGA output 1 Max. local output resolution Synchronous playback OSD (channels)  Reverse playback OSD (channels)  Remote viewing  Max. live viewing 128 streams  Max. simultaneous playback web browser (channels)  Max. simultaneous TCP: Up to 32 ch; UDP: Up to 8 ch playback web browser (channels)  Software compatibility Advisor Manager, OnGuard, TruVision Navig TVRmobile  Browser compatibility Google Chrome, Internet Explorer, Mozilla Firefox, Safari  Storage  Storage  Storage  Storage  Storage capacity 2 TB  Maximum recording resolution 16  Id OMbps  Max. Hive Viewing 128 streams  TCP: Up to 32 ch; UDP: Up to 8 ch  Prowser (channels)  Software compatibility Google Chrome, Internet Explorer, Mozilla Firefox, Safari	General	
Rack stacking size 1 U  Video/audio input  IP camera channels 16  Camera bandwidth 160 Mbps  Max. IP audio in 16  Supported video	Operating system	Embedded Linux
Video/audio input  IP camera channels 16 Camera bandwidth 160 Mbps  Max. IP audio in 16 Max. analog audio In 1 Supported video H.264, H.265 Compression standards  Local viewing  HDMI output 1 HDMI version 1.4, 2.0 VGA output 1 Max. local output Full HD 1080p resolution Synchronous playback OSD (channels)  Reverse playback OSD (channels)  Remote viewing Total available viewing bandwidth  Max. live viewing streams  Max. simultaneous TCP: Up to 32 ch; UDP: Up to 8 ch playback web browser Reverse playback web browser Reverse playback web browser (channels)  TCP: Up to 32 ch; UDP: Up to 8 ch prowser (channels)  Software compatibility Advisor Manager, OnGuard, TruVision Navig TVRmobile  Browser compatibility Google Chrome, Internet Explorer, Mozilla Firefox, Safari  Storage  Storage  Storage capacity 2 TB  Maximum recording 4 K resolution  Recording modes Alarm, Event, Manual, Time-lapse high, Time	Rack mountable	
IP camera channels 16 Camera bandwidth 160 Mbps Max. IP audio in 16 Max. analog audio In 1 Supported video H.264, H.265 compression standards Supported video Onvif, RTSP Custom Protocols streaming standards  Local viewing HDMI output 1 HDMI version 1.4, 2.0 VGA output 1 Max. local output Full HD 1080p resolution Synchronous playback OSD (channels) Reverse playback OSD (channels) Reworte viewing Total available viewing bandwidth Max. live viewing streams Max. playback viewing streams Max. playback viewing 8 streams Max. simultaneous playback web browser Reverse playback web browser Reverse playback web browser Reverse playback viewing 8 streams  Max. playback viewing 8 streams  TCP: Up to 32 ch; UDP: Up to 8 ch playback web browser Reverse playback web browser	Rack stacking size	1 U
Camera bandwidth 160 Mbps  Max. IP audio in 16  Max. analog audio In 1  Supported video H.264, H.265  Supported video Streaming standards  Local viewing  HDMI output 1  Max. local output Full HD 1080p  resolution Synchronous playback OSD (channels)  Reverse playback OSD (channels)  Remote viewing 128 streams  Max. live viewing streams  Max. playback viewing streams  Max. simultaneous playback web browser (channels)  Max. simultaneous playback web browser (channels)  Software compatibility Advisor Manager, OnGuard, TruVision Navig TVRmobile  Browser compatibility Google Chrome, Internet Explorer, Mozilla Firefox, Safari  Storage  Storage  Storage capacity 2 TB  Maximum recording resolution M.264, H.265  Onvif, RTSP Custom Protocols  H.264, H.265  Onvif, RTSP Custom Protocols  128, H.264, H.265  Onvif, RTSP Custom Protocols  128, H.264, H.265  Onvif, RTSP Custom Protocols  128, H.264, H.265  Onvif, RTSP Custom Protocols  14, 2.0  Onvif, RTSP Custom Protocols  14, 2.0  Onvif, RTSP Custom Protocols  14, 2.0  Orvif, RTSP Custom Protocols  14, 2.0  Onvif, RTSP Custom Protocols  15, 40, 10, 10, 10, 10, 10, 10, 10, 10, 10, 1	Video/audio input	
Max. IP audio in 16  Max. analog audio In 1  Supported video H.264, H.265  Supported video Onvif, RTSP Custom Protocols  Streaming standards  Local viewing  HDMI output 1  HDMI version 1.4, 2.0  VGA output 1  Max. local output Full HD 1080p  resolution Synchronous playback OSD (channels)  Reverse playback OSD (channels)  Rewortse viewing 128 streams  Max. live viewing streams  Max. live viewing streams  Max. simultaneous playback web browser (channels)  Reverse playback web browser (channels)  Software compatibility Advisor Manager, OnGuard, TruVision Navig TVRmobile  Browser compatibility Google Chrome, Internet Explorer, Mozilla Firefox, Safari  Storage  Storage  Storage capacity 2 TB  Maximum recording resolution  Recording modes Alarm, Event, Manual, Time-lapse high, Time-Recording modes Alarm, Event, Manual, Time-Recording modes Alarm, Event, M	IP camera channels	16
Max. analog audio In Supported video compression standards Supported video Streaming standards Supported video Streaming standards  Local viewing HDMI output 1 HDMI version 1.4, 2.0 VGA output 1 Max. local output resolution Synchronous playback OSD (channels) Reverse playback OSD (channels)  Remote viewing Total available viewing bandwidth Max. live viewing streams Max. playback viewing streams Max. simultaneous playback web browser Reverse playba		160 Mbps
Supported video compression standards  Supported video streaming standards  Local viewing  HDMI output  HDMI version  I.4, 2.0  VGA output  IMAX. local output Full HD 1080p  Reverse playback OSD (channels)  Remote viewing  Total available viewing streams  Max. simultaneous playback web browser  Reverse playback web browser  Reverse playback web browser (channels)  TCP: Up to 32 ch; UDP: Up to 8 ch browser (channels)  Storage  Storage  Storage  Storage  Storage  Storage capacity  Adarm, Event, Manual, Time-lapse high, Time Recording modes  Alarm, Event, Manual, Time-lapse high, Time Recording modes  Onvif, RTSP Custom Protocols  H.264, H.265  Onvif, RTSP Custom Protocols  H.264, H.265  Onvif, RTSP Custom Protocols  Alae, H.264, H.265  Onvif, RTSP Custom Protocols  1.4, 2.0  Up to 1.4, 2.0  Up to 4 channels (1080P)  Up to 4 channels (1080P)  Up to 1 channel  Storage capacity  Advisor Manager, Onguerd, TruVision Navig  TVRmobile  Storage  Storage capacity  A K  Recording modes  Alarm, Event, Manual, Time-lapse high, Time	Max. IP audio in	16
Compression standards  Supported video streaming standards  Local viewing  HDMI output 1  HDMI version 1.4, 2.0  VGA output 1  Max. local output Full HD 1080p resolution  Synchronous playback OSD (channels)  Reverse playback OSD (channels)  Remote viewing Total available viewing bandwidth  Max. live viewing streams  Max. playback viewing streams  Max. playback viewing streams  Max. simultaneous playback web browser  Reverse playback web browser  Reverse playback viewing streams  Max. playback viewing streams  Max. simultaneous TCP: Up to 32 ch; UDP: Up to 8 ch browser (channels)  Software compatibility Advisor Manager, OnGuard, TruVision Navig TVRmobile  Browser compatibility Google Chrome, Internet Explorer, Mozilla Firefox, Safari  Storage  Storage capacity 2 TB  Maximum recording resolution  Recording modes Alarm, Event, Manual, Time-lapse high, Time		
Local viewing  HDMI output 1  HDMI version 1.4, 2.0  VGA output 1  Max. local output Full HD 1080p resolution  Synchronous playback OSD (channels)  Reverse playback OSD (channels)  Remote viewing Total available viewing streams  Max. live viewing streams  Max. playback viewing streams  Max. simultaneous playback web browser  Reverse playback viewing at the total number of the playback web browser, which are the		H.264, H.265
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HDMI version  VGA output  I  Max. local output resolution  Synchronous playback OSD (channels)  Reverse playback OSD (channels)  Remote viewing  Total available viewing bandwidth  Max. live viewing streams  Max. playback viewing streams  Max. simultaneous playback web browser  Reverse playback web browser (channels)  TCP: Up to 32 ch; UDP: Up to 8 ch browser (channels)  TCP: Up to 32 ch; UDP: Up to 8 ch browser (channels)  Software compatibility TVRmobile  Browser compatibility  Google Chrome, Internet Explorer, Mozilla Firefox, Safari  Storage  Storage  Storage capacity  Alarm, Event, Manual, Time-lapse high, Time Recording modes  Alarm, Event, Manual, Time-lapse high, Time	Local viewing	
Max. local output Full HD 1080p resolution Synchronous playback OSD (channels) Reverse playback OSD (channels)  Remote viewing Total available viewing bandwidth Max. live viewing streams Max. playback viewing streams Max. simultaneous playback web browser Reverse playback web browser Reverse playback web browser (channels)  TCP: Up to 32 ch; UDP: Up to 8 ch Drowser (channels)  Software compatibility Advisor Manager, OnGuard, TruVision Navig TVRmobile Browser compatibility Google Chrome, Internet Explorer, Mozilla Firefox, Safari  Storage Storage capacity 2 TB Maximum recording 4 K resolution Recording modes Alarm, Event, Manual, Time-lapse high, Time	HDMI output	1
Max. local output resolution  Synchronous playback Up to 4 channels (1080P)  Reverse playback OSD (channels)  Remote viewing  Total available viewing bandwidth  Max. live viewing 128 streams  Max. playback viewing streams  Max. simultaneous playback web browser  Reverse playback web browser  Reverse playback web browser  Reverse playback web browser (channels)  Software compatibility Advisor Manager, OnGuard, TruVision Navig TVRmobile  Browser compatibility Google Chrome, Internet Explorer, Mozilla Firefox, Safari  Storage  Storage capacity 2 TB  Maximum recording 4 K  resolution  Recording modes Alarm, Event, Manual, Time-lapse high, Time-	HDMI version	1.4, 2.0
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OSD (channels)  Reverse playback OSD Up to 1 channel (channels)  Remote viewing  Total available viewing 80 Mbps bandwidth  Max. live viewing 128 streams  Max. playback viewing 8 streams  Max. simultaneous playback web browser  Reverse playback web TCP: Up to 32 ch; UDP: Up to 8 ch browser (channels)  Software compatibility Advisor Manager, OnGuard, TruVision Navig TVRmobile  Browser compatibility Google Chrome, Internet Explorer, Mozilla Firefox, Safari  Storage  Storage  Storage capacity 2 TB  Maximum recording 4 K  resolution  Recording modes Alarm, Event, Manual, Time-lapse high, Time-	· ·	Full HD 1080p
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Total available viewing bandwidth  Max. live viewing streams  Max. playback viewing 8 streams  Max. simultaneous TCP: Up to 32 ch; UDP: Up to 8 ch playback web browser  Reverse playback web TCP: Up to 32 ch; UDP: Up to 8 ch browser (channels)  Software compatibility Advisor Manager, OnGuard, TruVision Navig TVRmobile  Browser compatibility Google Chrome, Internet Explorer, Mozilla Firefox, Safari  Storage  Storage  Storage capacity 2 TB  Maximum recording 4 K resolution  Recording modes Alarm, Event, Manual, Time-lapse high, Time		Up to 1 channel
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streams  Max. playback viewing 8 streams  streams  Max. simultaneous TCP: Up to 32 ch; UDP: Up to 8 ch playback web browser  Reverse playback web browser (channels)  Software compatibility Advisor Manager, OnGuard, TruVision Navig TVRmobile  Browser compatibility Google Chrome, Internet Explorer, Mozilla Firefox, Safari  Storage  Storage capacity 2 TB  Maximum recording 4 K resolution  Recording modes Alarm, Event, Manual, Time-lapse high, Time	-	80 Mbps
streams  Max. simultaneous playback web browser  Reverse playback web TCP: Up to 32 ch; UDP: Up to 8 ch browser (channels)  Software compatibility Advisor Manager, OnGuard, TruVision Navig TVRmobile  Browser compatibility Google Chrome, Internet Explorer, Mozilla Firefox, Safari  Storage Storage capacity 2 TB  Maximum recording 4 K resolution  Recording modes Alarm, Event, Manual, Time-lapse high, Time	-	128 streams
playback web browser  Reverse playback web TCP: Up to 32 ch; UDP: Up to 8 ch browser (channels)  Software compatibility Advisor Manager, OnGuard, TruVision Navig TVRmobile  Browser compatibility Google Chrome, Internet Explorer, Mozilla Firefox, Safari  Storage  Storage Storage capacity 2 TB  Maximum recording 4 K resolution  Recording modes Alarm, Event, Manual, Time-lapse high, Time	-	8 streams
browser (channels)  Software compatibility Advisor Manager, OnGuard, TruVision Navig TVRmobile  Browser compatibility Google Chrome, Internet Explorer, Mozilla Firefox, Safari  Storage  Storage capacity 2 TB  Maximum recording 4 K resolution  Recording modes Alarm, Event, Manual, Time-lapse high, Time		TCP: Up to 32 ch; UDP: Up to 8 ch
TVRmobile  Browser compatibility Google Chrome, Internet Explorer, Mozilla Firefox, Safari  Storage  Storage capacity 2 TB  Maximum recording 4 K resolution  Recording modes Alarm, Event, Manual, Time-lapse high, Time		TCP: Up to 32 ch; UDP: Up to 8 ch
Storage Storage capacity 2 TB Maximum recording 4 K resolution Recording modes Alarm, Event, Manual, Time-lapse high, Time	Software compatibility	Advisor Manager, OnGuard, TruVision Navigator, TVRmobile
Storage capacity 2 TB  Maximum recording 4 K resolution  Recording modes Alarm, Event, Manual, Time-lapse high, Time	Browser compatibility	
Maximum recording 4 K resolution  Recording modes Alarm, Event, Manual, Time-lapse high, Time	Storage	
resolution Recording modes Alarm, Event, Manual, Time-lapse high, Time	Storage capacity	2 TB
	_	4 K
	Recording modes	Alarm, Event, Manual, Time-lapse high, Time- lapse low
Edge failover recording No	Edge failover recording	

Network interface cards	1
(NIC)	
NIC type	RJ-45 10/100/1000 Mbps self-adaptive Ethernet
	interface
PoE ports	16
Total PoE budget	200
PoE standards supported	d PoE-af, PoE-at
Plug & Play PoE support	Yes
Flexible PoE allocation	Yes
DNS support	DDNS, ezDDNS, No-IP
HTTPS support	Yes
External interfaces	
USB interface back	1
USB interface front	1
Alarm inputs	4
Alarm outputs	1
Max. analog audio	1
outputs	
Electrical	
Operating voltage	100 to 240 VAC
Power consumption	≤ 280 W
without HDD (W)	
Physical	
Physical dimensions	380 x 320 x 48 mm (W x D x H)
Net weight	2.5 kg
Colour	Black
Environmental	
Operating temperature	-10 to +55 °C
Relative humidity	10 to 90% noncondensing

CE, REACH, RoHS, UL

Compliancy

As a company of innovation, Carrier Fire & Security reserves the right to change product specifications without notice. For the latest product specifications, visit firesecurityproducts.com online or contact your sales representative.

