TVR-1816-20T

TruVision™ DVR 18, HD-TVI Hybrid 16 channel recorder, 20 TB

Product overview

The TVR18 Series is a versatile and feature-rich hybrid video recording solution, designed to support a seamless transition from legacy analog systems to modern high-resolution surveillance. The TVR-1816 offers a cost-effective option for recording up to 16 analog or HD analog cameras, making it ideal for small-scale installations.
As a true hybrid recorder, the TVR18 supports a wide range of camera formats including analog, HD-TVI, HD-CVI (up to 4 MP), HD-AHD (up to 5 MP), and IP cameras. This flexibility makes it an excellent choice for upgrading existing analog infrastructures, delivering a competitive, practical, and future-ready solution

Easy to use

With built-in UltraSync connectivity, the TVR18 series simplifies remote access—no port forwarding or VPN configuration required. Integration with the UltraSync cloud platform enables seamless remote management via the TVRMobile app and TruVision Navigator software (version 9.4SP2 or newer), unlocking full access to UltraSync features and future enhancements.
Remote video viewing is intuitive and secure, while advanced analytics such as people and vehicle recognition on analog channels and supported TruVision IP cameras help users quickly identify relevant events.

Intelligence on-board

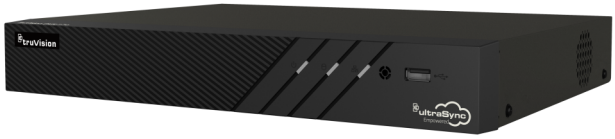
The Intelligent Search feature enables rapid retrieval of relevant recordings from analog and HD analog cameras. The TVR18 also supports:
- Face recognition on up to 4 analog channels
- AI-based perimeter protection on up to 8 analog channels
These capabilities enhance situational awareness and reduce response times in critical scenarios.

Flexible deployment

The TVR-1816 leverages open HD-TVI technology, supporting cameras up to 8 MP over existing coaxial cabling. It also maintains compatibility with standard analog cameras, allowing users to retain legacy equipment where appropriate.
All channels can be configured for IP cameras up to 4K (8 MP), making the TVR18 a truly hybrid solution. Support for H.265 encoding ensures efficient storage and bandwidth usage across both analog and IP streams.

Applications

The TVR18 Series is ideal for upgrading small-scale analog systems in residential, retail, and small office environments, where high-quality video is essential but costly rewiring is not feasible. Its hybrid flexibility and intelligent features make it a smart investment for scalable security.



Details

- Embedded Linux OS with plug-and-play configuration
- Supports analog, HD-TVI, HD-AHD, HD-CVI, and IP camera technologies
- Flexible channel support: up to 16 analog + 16 IP cameras, or up to 32 IP cameras (with analog channels disabled)
- Supports HD-TVI and IP cameras up to 8 MP (4K)
- 20TB internal storage with real time Full HD recording
- Multiple video outputs: HDMI, VGA, and BNC
- UltraSync cloud support for remote access without port forwarding
- Advanced analytics: people/vehicle detection on analog and IP channels (max. 8), face recognition (max.4 analog channels)
- Third party IP camera support via ONVIF Profile S
- Integration of Aritech IP intrusion panels via SIA/XSIA reporting
- TVK-610 IP keypad support
- Over-the-coax control for TruVision fixed/PTZ HD-TVI cameras
- Reuse existing coaxial cabling for HD-TVI, HD-AHD, and HD-CVI cameras
- Access via browser, OSD, TVRMobile app (iOS/Android), and TruVision Navigator software
- External integration through SDK

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Technical specifications

General

Technology	Analog, HD-TVI analog, IP
Operating system	Embedded Linux
Rack mountable	Yes

Video/audio input

Camera channels	16
Analog camera channels	16
IP camera channels	16 or 32 (with all analog channels disabled)
Max. bandwidth per channel	Analog: up to 8 Mbps (main stream) / up to 3 Mbps (sub stream) IP: follow capacity of IP camera but will not exceed 16 Mbps
Camera bandwidth	256 Mbps (combined in/out)
Audio compression	G.711
Max. analog audio In	4-ch, RCA (2.0 Vp-p, 1 kOhm)
Supported video compression standards	H.264, H.264+, H.265, H.265+
Supported video streaming standards	Onvif

Local viewing

HDMI output	1
HDMI version	1.4
VGA output	1
BNC output	1
Max. local output resolution	4K
Synchronous playback OSD (channels)	Up to 16 channels
Reverse playback OSD (channels)	1 channel

Remote viewing

Total available viewing bandwidth	Combined in and out bandwidth of 256 Mbps
Max. live viewing streams	128
Max. playback viewing streams	32
Max. simultaneous playback web browser	Up to 16 channels
UltraSync support	Yes, embedded
Software compatibility	TruVision Navigator, TVRmobile
Browser compatibility	Google Chrome, Microsoft Edge, Mozilla Firefox, Safari

Storage

Storage capacity	20 TB
SATA interfaces	2
Max. capacity per SATA HDD (TB)	10 TB
Recording modes	Continuous, Event, Manual
External storage	NAS
Maximum recording resolution	4K/8MP (IP, HD-TVI, HD-CVI), 5MP (HD-AHD)

Networking

Network interface cards (NIC)	1
NIC type	RJ-45 10/100/1000 Mbps self-adaptive Ethernet interface
DNS support	DDNS, ezDDNS, No-IP
HTTPS support	Yes

External interfaces

USB interface back	1
USB interface front	1
Serial interface	RS-485
Alarm inputs	16
Alarm outputs	4
Max. analog audio outputs	1

Electrical

Power supply value	12 VDC (external PSU included)
Power consumption without HDD (W)	Less than 60 W

Physical

Physical dimensions	385 x 315 x 52 mm (W x D x H)
Net weight	2.1 kg
Colour	Black

Environmental

Operating temperature	-10 to +55ºC 14 to 131ºF
Relative humidity	10 to 90%

Regulatory

Compliancy	CE, REACH, RoHS, UKCA, UL, WEEE

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