TVR45HD

TruVision™ DVR 45 HD, HD-TVI Hybrid 8/16 channel recorder

Overview

The TruVision DVR 45HD (TVR 45HD) is a full-featured HD Hybrid video recorder capable of recording up to 8 or 16 camera inputs. This HD Hybrid recorder is uniquely qualified to upgrade existing analog installations, offering a competitive, feature-rich and practical solution for the market of HD analog, standard analog and hybrid recorders.

A true HD hybrid

Using the open HD-TVI technology, TVR 45HD can connect any HD-TVI camera, offering resolutions up to 5 MPX over existing coax cabling. Next to HD-TVI, TVR 45HD also connects standard analog cameras, allowing you to reuse existing analog cameras which do not yet need to be replaced/upgraded. Finally, TVR 45HD is capable of connecting all of its channels on IP, making this a true HD Hybrid series.
The IP cameras can have a resolution up to 4 MPX and can be using H.264 or H.265 compression.

HD-TVI technology

HD-TVI allows you to run an analog signal (up to 5 MPX) over existing standard coax cabling, following the same specifications as for standard analog systems today. Additionally, TVR 45HD allows you to access the local on-screen-display menu of TruVision HD-TVI cameras through over-the-coax control. This saves time in setup and facilitates maintenance afterwards. Also TruVision HD-TVI PTZ cameras can be controlled over the coax.

Intrusion integration

TVR 45HD has an alarm receiver module embedded inside. 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, send an email, send a notification message to TVRmobile or to TruVision Navigator (as of version 7.0)). Also the heartbeat message between panel and recorder is monitored. This solution offers straightforward alarm verification and is free of charge.

Advanced functionality

TVR 45HD represents a full-featured HD-TVI recorder that is designed to reduce setup and installation time while also offering advanced video review and analysis features. This

Standard Features

- Linux embedded Plug and Play configuration
- Supports standard analog, HD-TVI and IP cameras
- Up to 8/16 cameras (HD-TVI, IP or analog)
- Up to 8/16 IP cameras (when disabling all analog channels)
- Up to 5 MPX HD-TVI camera support (on max. 1/4th of the channels)
- Up to 4 MPX IP camera support
- Support for ONVIF Profile S IP cameras
- Over-the-coax control for setup or PTZ control of TruVision HD-TVI cameras
- Use existing coax cabling for HD-TVI cameras
- New icon based front panel
- Real-time Full HD recording
- Up to 24 TB of internal storage
- Front side accessible hard drives
- Hard drive grouping and RAID support (0,1, 5, 10)
- Expandable storage with NAS
- Reverse video playback
- USB video export
- Start-up wizard for quick and easy installation
- HDMI, VGA and BNC (event only) video outputs
- V-stream support
- Operations through OSD/browser/software
- Integration of UTC IP intrusion panels via SIA/XSIA reporting
- Supported by TruVision Navigator license-free client/host or standalone application
- TVRmobile app for iOS and Android
- Integration into various UTC software platforms

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functionality includes: video content analysis (VCA) on all analog channels, support for IP camera VCA, NAS & eSATA support for additional storage, front panel accessible hard drives for service and expansion, and many more.

Specifications

Video/Audio input

Analog camera input:	Up to 8/16 channels; automatic detection of analog and HD-TVI
IP camera input:	Up to 8/16 channels (with all analog channels disabled)
HD-TVI camera resolutions supported:	720P, 1080P, 3 MPX, 5 MPX (on 8 ch.recorder: max. 2 5MPX cameras; on 16 ch. recorder: max. 4 5MPX cameras)
IP camera resolution supported:	Up to 4 MPX
Maximum bit rate per channel:	HD-TVI/BNC: Up to 10Mbps (main stream)/Up to 3Mbps (sub stream) IP: follow capacity of IP camera but normally will not exceed 16 Mbps"
Video compression standards supported:	H.264 for analog/HD-TVI encoding&decoding; H.264/H.265 for IP stream decoding.
Audio input:	4-ch, RCA (2.0 Vp-p, 1 KOhm)
Onvif support:	Yes, version: Profile S

Video/audio output

BNC output:	1-ch, BNC (1.0 Vp-p, 75 Ohm) Resolution: 704 × 576 (PAL); 704 × 480 (NTSC); event only
HDMI output:	2-ch, HDMI1 mirrors output content of VGA port, HDMI2 is an independent output, resolutions:3840x2160/30Hz, 2560x1440/60Hz, 1920 × 1080/60Hz, 1280 × 1024/60Hz, 1280 × 720/60Hz, 1024 × 768/60 Hz, with audio
HDMI version:	HDMI 2.0 (compatible with 1.4)
VGA output:	1-ch, shows the same output content as HDMI 1, resolutions: 1920 × 1080/60Hz, 1280 × 1024/60Hz, 1280 × 720/60Hz, 1024 × 768/60 Hz
Playback resolution:	Up to Full HD
Audio output:	2-ch, RCA (Linear, 1 KOhm) , for VGA and BNC output
Synchronous playback OSD:	Up to 8/16 channels
Simultaneous playback browser:	Up to 8/16 tile (it depends on the incoming/outgoing bandwidth limitation and whether it is TCP or UDP)
Reverse playback OSD:	Up to 1 channel

Recording

Recording resolution:	5 MPX (HD-TVI only) / 4 MPX (IP only) / 3 MPX / Full HD 1080P / 720P / 960H / VGA / 4CIF / DCIF/ CIF / QCIF
SATA:	4 SATA interfaces
Maximum onboard storage capacity:	24TB
RAID	0,1, 5,10 (RAID 5: support for hot swappable hard drives)
eSATA:	Yes
Recording modes:	Time Lapse High, Time Lapse Low, Event, Alarm, Manual

Networking

Network interface:	2 RJ-45 10/100/1000 Mbps self-adaptive Ethernet interface
ezDDNS:	Yes
DynDNS:	Yes
no-IP.com:	Yes
Total viewing streams available:	128
Maximum total incoming/ outgoing bandwidth (combined):	8 ch: 200 Mbps/16 ch: 260 Mbps

External interface

Serial interface:	1 RS-232 interface (technical support)/1 RS485 (PTZ control)
USB interface:	Front: 2 x USB 2.0 / Back panel: 1x USB 3.0
Alarm interface:	16 alarm in, 4 relay out

General

Power supply:	AC(100~240 V)
Power consumption (without hard disk):	8 ch: 45W/16 ch:65 W
Operating temperature:	-10 ºC to +55 ºC (14 ºF to 131 ºF)
Operating humidity:	10% to 90%
Chassis:	1.5 U desk-based chassis
Dimensions (W x D x H):	442 x 398 x 74 mm
Weight (without hard disk):	Not exceed 5 kg
Rack mountable:	Yes, rack ears included

Operations

Local:	Front panel / IR remote / USB mouse
Remote:	IP keypad / Browser interface / TruVision Navigator / TVRmobile
Browser requirements:	IE 9, 10, 11

Ordering Information

Part No.	Description
TVR-4508HD-xxT	
TVR-4516HD-xxT	

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