

# DVR 60

## Real-time H.264 Hybrid Digital Video Recorder



### OVERVIEW

The TruVision™ DVR 60 (TVR 60) offers real-time recording with H.264 compression and live-mode, dual streaming functionality for efficient bandwidth utilization and network performance in multiple network environments. Delivering hybrid capability for an easy migration from DVRs to NVRs, the TVR 60 can store, display live, search and transmit analog or IP video from up to 24 cameras.

With up to 12TB of internal storage this DVR accommodates high-resolution video and can be configured for redundant recording across multiple drives. The SlotDrive DVD adds reliability due to less wear and tear when inserting media. Keeping the installer in mind, the TVR 60 uses a looping video cable instead of dual BNC connections—the added space to the back panel makes cable connection easier.

Although the recorder delivers powerful features, it remains easy to use with a convenient setup wizard for standard applications. Other ease-of-use features include one button archive methodology that facilitates quick and simple export of evidence clips.

Even more powerful management is supported by the license-free TruVision Navigator software, allowing for management of unlimited devices. The intuitive Web browser interface also enables remote configuration and secure viewing from Internet-connected computers.

### STANDARD FEATURES

- Real-time recording at up to 4CIF on all channels
- H.264 compression and dual streaming on live video
- Records up to 16 IP camera streams and HD IP streams
- Up to 12TB internal JBOD storage for redundant and flexible storage options
- Fully integrates with TruVision Navigator software
- Mobile device support and networkable via Ethernet (TCP/IP)
- Quick, easy configuration and installation with Set-up Wizard
- Camera to HDD assignment for storage grouping
- 24-channel audio recording (analog and IP) with 1-channel bi-directional
- PTZ and Dome camera control via KTD-405 keypad, mouse, front-panel joystick and IR remote controller and remote software

# DVR 60

Real-time H.264 Hybrid  
Digital Video Recorder

**North America**  
T 888-437-3287

**Asia**  
T 852-2907-8108  
F 852-2142-5063

**Australia**  
T 61-3-9239-1200  
F 61-3-9239-1299

**Europe**  
T 32-2-725-11-20  
T 32-2-721-40-47

**Latin America**  
T 561-998-6100  
T 561-994-6572

## Specifications

### Video

- Conditioning: AGC, 0.7 to 1.4 V p-p video accepted
- Horizontal resolution: 704 pixels
- Vertical resolution: 576 lines
- Video compression standard: H.264
- Monitor A VGA: Full & Multi-Screen output
- Monitor B composite: Full & Multi-Screen output, BNC connector, NTSC/EIA or PAL/CCIR compatible
- Monitor C composite: Spot Monitor for Alarms, BNC connector, NTSC/EIA or PAL/CCIR compatible
- Multi-Screen display; Full, quad, 9, 12 and 16 up

### Recording

- Hard drive; 6-HDD SATA supporting SMART
- Real-time Recording Resolution: 720p, 4CIF, 2CIF, CIF, and QCIF
- Bandwidth: Up to 6 Mbit/sec. per ch. scalable
- Mode: Manual, Schedule, Motion and Alarm

### Archive

- Audio and Video: Via built-in CD/DVD burner, USB2.0 or e-SATA

### Video Motion, Privacy Masking and Tampering Detection

- Zones per camera: 396 (22 x 18 grid)

### Audio

- Compression standard 16 Kbps
- Input: 16 channels, RCA
- Output: 2 RCA
- Bi-directional - Line In: 1 RCA

### Alarm Handling

- Alarm Monitor: Mon A or B or C (configurable)
- Alarm input: 16 programmable NO/NC
- Alarm output: Form C alarm relay (4)

### Network

- Type: 10/100/1000 Base-T, RJ-45
- Protocol: TCP, IP, ARP, RARP, PPP, PPPoE, DHCP, SNMP
- e-SATA: 1

### Operation

- OS: VxWorks real-time OS
- Languages: English & 17 European languages
- Users: Admin, Manager, Operator & 13 additional

### Connectors

- RS-232 serial port: 9-pin SubD
- RS-485 PTZ control port: Screw terminal strip
- USB: 2, one at the front one at the back
- Keypad: Screw terminal strip

### Electrical

- Input voltage: 90 to 135 VAC / 180 to 256 VAC, 47 to 63 Hz
- Power consumption: max 126 W

### Environmental

- Temperature: -10 to +50°C
- Relative humidity: 10 to 90%

### Mechanical

- Dimensions (W x H x D): 17.1 x 3.7 x 17.9 in. (435 x 95 x 455 mm), 19-inch (2U)
- Weight: Max. 11 kg
- Mounting: Rack-mount kit optional

### Browser Software Requirements

- Intel-based PC: 1 GHz or faster
- Memory: 1 GB RAM minimum
- Operating system: Windows® XP, Vista or Windows 7
- DirectX: 9.0 or later
- Browser: Microsoft® Internet Explorer 6.0 or later

### IP Device Support

#### Standard Definition IP Cameras:

- UltraView™ IP Cameras
- CamPlus™ 2 IP Series
- Panasonic (NW484S, NF284, NP-244)

#### Encoder:

- UltraView EVP Encoder 10

#### MPX IP Cameras:

- TruVision™ Mpx H.264 Series

### Supported Mobile Devices

- PDA/Mobile Phone: WinMobile 5 up to 6.5
- Touch Screen support
- Free memory at least 20MB
- CPU 200MHz and better
- Apple iPhone 3G or higher
- Android, OS V1.6 and above

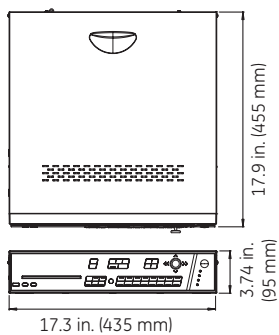
### Regulatory

- FCC, CE, CTick, UL

## Ordering Information

<b>TVR-6016-2T</b>	TruVision DVR 60, H.264, 16 ch Hybrid, DVD/CD, 2TB Storage
<b>TVR-6016-4T</b>	TruVision DVR 60, H.264, 16 ch Hybrid, DVD/CD, 4TB Storage
<b>TVR-6016-8T</b>	TruVision DVR 60, H.264, 16 ch Hybrid, DVD/CD, 8TB Storage
<b>TVR-6016-12T</b>	TruVision DVR 60, H.264, 16 ch Hybrid, DVD/CD, 12TB Storage

## Dimensional Diagram



## Hybrid Support Table\*

Analog Cams	Max IP Cams if using Std Def only	Max IP Cams if using 720p only	Max IP Cams if using 2 Mpx only	Max total Analog + IP
9 to 16	8	4	4	24 (16 Analog + 8 Std Def)
Up to 8	16	8	6	24 (8 Analog + 16 Std Def)

\*Other combinations possible, see TruVision Calculator Tool (2Mpx IP camera configured to maximum of 12.5fps at 3Mbps bit rate).

Specifications subject to change without notice.

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