

# TVR-1804C-1T

## TruVision™ DVR 18c, HD-TVI Hybrid 4 channel compact recorder, 1 TB

### Product overview

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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-1804c offers a cost-effective option for recording up to 4 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 (up to 8MP), 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

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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 9.4SP3 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

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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 2 analog channels
- AI-based perimeter protection on up to 4 analog channels

These capabilities enhance situational awareness and reduce response times in critical scenarios.

### Flexible deployment

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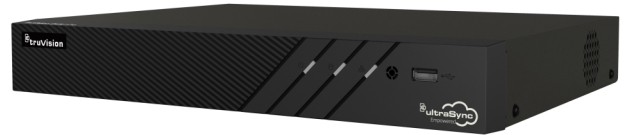
The TVR-1804c leverages open HD-TVI technology, supporting cameras up to 8 MP over existing coaxial cabling. It also maintains compatibility with standard analog cameras, allowing users to retain legacy equipment where appropriate.

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

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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

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- 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 4 analog + 4 IP cameras, or up to 8 IP cameras (with analog channels disabled)
- Supports HD-TVI and IP cameras up to 8 MP (4K)
- 1 TB 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. 4 channels), face recognition (max. 2 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

# TVR-1804C-1T

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### Technical specifications

#### General

|                  |                           |
|------------------|---------------------------|
| Technology       | Analog, HD-TVI analog, IP |
| Operating system | Embedded Linux            |
| Rack mountable   | No                        |

#### Video / audio input

|                                       |                                                                                                                             |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Camera channels                       | 4                                                                                                                           |
| Analog camera channels                | 4                                                                                                                           |
| IP camera channels                    | 4 or 8 (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                      | 96 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        | 2K               |
| Synchronous playback OSD (channels) | Up to 4 channels |
| Reverse playback OSD (channels)     | 1 channel        |

#### Remote viewing

|                                        |                                                        |
|----------------------------------------|--------------------------------------------------------|
| Total available viewing bandwidth      | Combined in and out bandwidth of 96 Mbps               |
| Max. live viewing streams              | 128                                                    |
| Max. playback viewing streams          | 32                                                     |
| Max. simultaneous playback web browser | Up to 4 channels                                       |
| UltraSync support                      | Yes, embedded                                          |
| Software compatibility                 | TruVision Navigator, TVRmobile                         |
| Browser compatibility                  | Google Chrome, Microsoft Edge, Mozilla Firefox, Safari |

#### Storage

|                                 |                                           |
|---------------------------------|-------------------------------------------|
| Storage capacity                | 1 TB                                      |
| SATA interfaces                 | 1                                         |
| 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 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              | 4      |
| Alarm outputs             | 1      |
| Max. analog audio outputs | 1      |

#### Electrical

|                                   |                                |
|-----------------------------------|--------------------------------|
| Power supply value                | 12 VDC (external PSU included) |
| Power consumption without HDD (W) | Less than 10 W                 |

#### Physical

|                     |                               |
|---------------------|-------------------------------|
| Physical dimensions | 315 x 240 x 48 mm (W x D x H) |
| Net weight          | 1.16 kg                       |
| Colour              | Black                         |

#### Environmental

|                       |                             |
|-----------------------|-----------------------------|
| Operating temperature | -10 to +55°C<br>14 to 131°F |
| Relative humidity     | 10 to 90%                   |

#### Regulatory

|            |                                 |
|------------|---------------------------------|
| Compliance | CE, REACH, RoHS, UKCA, UL, WEEE |
|------------|---------------------------------|



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Last updated on 6 July 2026 - 16:56