



## TVE-410

TruVision® IP H.264 Encoder, 4 Channel, 960H

### Overview

The TruVision TVE Series IP Video Encoders includes 1-, 4-, 8- and 16-channel encoders, allowing you to transform analog camera signals to a H.264 compressed IP signal. This product is an ideal solution to help you gradually upgrade and migrate video surveillance systems from analog to IP. Instead of replacing entire systems, viable analog cameras can be integrated in new IP based systems, simply by using the range of TruVision encoders.

### Compression & streaming

TruVision encoders utilize H.264 compression with dual-streaming capability, making it easy to manage the encoder's bandwidth usage. These encoders are designed to adhere to PSIA and ONVIF open communication standards, and also support a CGI command set for simple integration into any IP system. Video streams can be set for high and low bandwidth and images can be streamed for live viewing or sent to a designated recording location.



### Standard Features

- 4 channel encoder
- Supports H.264, MPEG4 and MJPEG compression
- Real-time 960H on all channels
- Encoding resolution 960H, 4CIF, 2CIF, CIF, QCIF
- Dual streaming functionality
- Compliant to ONVIF/PSIA/CGI
- 4 channel audio input
- 4 alarm inputs
- 2 alarm output

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## Specifications

| Video/Audio input           |   |
|-----------------------------|---|
| Video compression:          | H.264 / MPEG4 / MJPEG   |
| Analog video input:         | 4-ch, BNC connector (1.0 Vp-p, 75 $\Omega$ ); PAL / NTSC adaptive   |
| Audio compression:          | G.711   |
| Audio input:                | 4-ch pin connector interface (2.0 Vp-p, 1 k $\Omega$ )  |
| Bi-directional audio input: | 1-ch, RCA (2.0 Vp-p, 1 k $\Omega$ ) (Using AUDIO IN)  |
| Video/Audio output          |   |
| Main stream frame rate:     | 960H / 4CIF / 2CIF / CIF @ 25 fps   |
| Sub stream frame rate:      | 960H @ 2 fps / 4CIF @ 4 fps / 2 CIF @ 8 fps / CIF @ 12 fps / QCIF @ 25 fps                                  |
| Video bit rate:             | 32 kbps to Max. 8192 kbps   |
| Stream type:                | Video/ Video & Audio  |
| Audio bit rate :            | 64 kbps   |
| Audio output:               | 1-ch, 3.5mm interface (Linear, 600 $\Omega$ )   |
| Dual streaming:             | Supported   |
| External interface          |   |
| Network interface:          | 1, RJ45 10 M / 100 M auto-negotiate Ethernet Interface  |
| Serial port:                | 1 RS-485 interface, half-duplex   |
| Alarm in:                   | 4   |
| Alarm out:                  | 2   |
| Miscellaneous               |   |
| Protocol:                   | Support CGI, PSIA and ONVIF   |
| PTZ Control Protocol:       | TruVision RS-485, TruVision RS-422 protocol, Pelco-D, Pelco-P   |
| Watermark:                  | Yes   |
| NAS                         | Supported   |
| Motion Detection:           | Supported   |
| Local Storage:              | Micro SD/SDHC card slot, up to 32 GB (card not included)  |
| Electrical & Mechanical     |   |
| Voltage / PoE:              | 12 VDC / PoE (IEEE802.3-af)   |
| Consumption:                | 8W (Max.)   |
| Current:                    | 670 mA  |
| Operating temperature:      | -10 to +55 C° (14 to 131 °F)  |
| Operating humidity:         | 10 to 90%   |
| Dimensions:                 | 114 x 48 x 128 mm (4.5 x 1.9 x 5 in.)   |
| Weight:                     | 557 g (1.23 lb)   |
| Installation                | Desktop and rack-mount. For rack mounting the TVE-110/410/810 encoders, use the TVE-RMB rack mount bracket. |

## Ordering Information

| Part No. | Description                                  |
|----------|--|
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