Overview:
The DTC professional dual channel HD IP encoder is a feature-rich device that is ideal for live video streaming and surveillance applications. The unit combines broadcast quality H.264 dual-HD video encoders, composite video, low delay, Power over Ethernet and camera control all in a highly compact form factor. ENCIPHER offers software selectable audio source, embedded or analogue audio, for each encoder channel. The encoder can operate in a variety of transmission bandwidths, from 100kbps to 50Mbps, allowing the user to configure the system according to the application requirements.

Features and Benefits:
- Advanced Audio Coding (AAC) and G711 codec for any audio
- G.726 codec for analogue audio
- Dual high profile HD H.264 independent video encoders
- Streaming suitable for approved 4G LTE USB dongles
- FCON capable
- NTP server for accurate synchronisation to UTC time
- Generic UDP TCP pipe for serial data over IP
- From 100 kbps IP streaming suitable for external 3G, 4G LTE modems
- Adaptive bitrate
- Power over Ethernet
- Up to two simultaneous IP streams – RTSP, UDP, unicast and multicast
- Two HD-SDI, two composite, single HDMI and USB webcam video inputs
- Low delay modes
- Configurable On-Screen Display (OSD) with timestamp
- Encryption – ABS as standard, AES optional license
- Built in video analytics; motion detection
- Micro SD card for store and forward functionality or upgrade
- ONVIF profile S support
- Two stereo audio inputs

Product Information:

<table>
<thead>
<tr>
<th>Product Includes</th>
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<tr>
<td>PROIP-ENC</td>
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<tr>
<td>ENCIPHER – Professional Dual Channel HD IP Encoder</td>
</tr>
<tr>
<td>AP009003</td>
</tr>
<tr>
<td>6-way terminal block</td>
</tr>
<tr>
<td>AP009004</td>
</tr>
<tr>
<td>Power supply, 12V/2A, 4 x intl AC plugs</td>
</tr>
<tr>
<td>AP009072</td>
</tr>
<tr>
<td>Cat6 network cable, shielded - 1m</td>
</tr>
<tr>
<td>SA3926</td>
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<tr>
<td>USB support stick</td>
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</tbody>
</table>

Accessory Options (sold separately)

<table>
<thead>
<tr>
<th>Professional IP Encoder 19” Rack Mount Accessory</th>
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Related Documents

<table>
<thead>
<tr>
<th>100218</th>
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<tbody>
<tr>
<td>Professional Dual Channel HD IP Encoder User Guide</td>
</tr>
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</table>
**PROIP-ENC**

**ENCIPHER Professional Dual Channel IP Encoder**

### Technical Specification:

#### Interfaces

<table>
<thead>
<tr>
<th>Interface</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>HD-SDI x 2</td>
<td>BNC</td>
</tr>
<tr>
<td>Composite x 2</td>
<td>BNC</td>
</tr>
<tr>
<td>HDMI</td>
<td>HDMI type A</td>
</tr>
<tr>
<td>Analogue audio x 2</td>
<td>3.5mm stereo jacks</td>
</tr>
<tr>
<td>DC power</td>
<td>2.1mm diameter pin</td>
</tr>
<tr>
<td>USB 2.0</td>
<td>Type A host</td>
</tr>
<tr>
<td>Ethernet (PoE)</td>
<td>RJ45</td>
</tr>
<tr>
<td>SD card</td>
<td>Micro SD</td>
</tr>
<tr>
<td>Camera control</td>
<td>Six way screw terminal connector</td>
</tr>
</tbody>
</table>

#### Video Formats

- **Digital inputs:**
  - 1920x1080i 60/59.94/50Hz
  - 1920x1080p 30/29.97/25/24/23.97Hz
  - 1920x1080pfd 30/29.97/25/24/23.97Hz
  - 1280x720p 60/59.94/50Hz
  - 720x576i 50Hz
  - 720x480i 59.94Hz
- **Composite inputs:**
  - PAL, NTSC

#### Encoding

- **Video encoding:** Either HD-SDI, composite or HDMI per channel
- **Video compression:** H.264
- **Audio analogue sample rate:** 8kHz (G.726 only), 16kHz, 22.05kHz, 24kHz, 32kHz, 44.1kHz & 48kHz
- **Audio digital sample rate:** 48kHz only
- **Audio encoder:** MPEG Layer I (32-448kbps)
- **MPEG Layer II (32-384kbps)**
- **MPEG Layer III (32-320kbps)**
- **AAC (32-256kbps)**
- **G.711 (64kbps only)**
- **G.726 (32kbps analogue audio only)**

#### Streaming

- **Number of streams:** Up to two
- **Format:** MPEG transport stream
- **Video:** Elementary stream (RTSP only)
- **Protocols:** UDP/RTSP (RTP) unicast & multicast
- **Bitrate:** 50Mbps per channel

#### Recording

- **Media:** Micro SD card (up to 128GB, class 10)

#### Control

- **Remote control:** Web interface
- **Camera control:** Switchable DC output (max 1A) 1 x RS-485 multi-drop for control of up to 32 cameras or 2 x RS-232

#### Encryption

- **Included:** ABS
- **Licensed:** AES 128, AES 256 (subject to export control)

#### Power

- **DC input:** 9 to 16V reverse polarity protected
- **Power over Ethernet:** PoE module requests 25.5W for unit and the peripherals to use
- **Power consumption:**
  - SD encoding - 4.0W typical
  - HD encoding - 6.0W typical
- **SDI power injection:** 5V at 0.5A on each input, switchable in software

#### Physical & Environment

- **Dimensions (incl connectors):** L 95mm, W 125mm, H 26mm
- **Weight:** 260g
- **Temperature range:** -20°C to +60°C
- **Sealing:** None

### Export

Export of encrypted products is subject to United Kingdom regulatory export controls.

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For further information contact your Sales Account Manager, one of our Regional Sales Offices, or email solent.enquiries@domotactical.com

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