

ENCIPHER Professional Dual Channel IP Encoder



Features and Benefits:

- MPEG, 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
- 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
- Motion detection video analytics with optional (licensed) JPEG metadata
- Micro SD card for store and forward functionality or upgrade
- Two stereo audio inputs

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.

Product Information:

Product Includes

AP009003	6-way terminal block
AP009004	Power supply, 12V/2A, 4 x intl AC plugs
AP009072	Cat6 network cable, shielded - 1m

License Options

LIC-PROIP-ENC-SNAPSHOTS	Triggered JPEG stills with timestamps
AES128	AES128 Cryptography Licence
AES256	AES256 & AES128 Cryptography Licence

Note: AES licenses are subject to export control

ENCIPHER Professional Dual Channel IP Encoder

Technical Specification:

Interfaces

DC power jack	2mm pin, 2A
Ethernet (PoE)	RJ45
USB 2.0	Type A host
HD-SDI x 2	BNC
Composite x 2	BNC
HDMI	HDMI type A
Analogue audio x 2	3.5mm stereo jacks
Camera control	6-way screw terminal connector
SD card	Micro SD

Video Formats

Digital inputs	1920x1080i 60/59.94/50Hz 1920x1080p 30/29.97/25/24/23.97Hz 960x1080p 60/59.94/50Hz (not HDMI) 1920x1080psf 30/29.97/25/24/23.97Hz 1280x720p 60/59.94/50/30/29.97/25Hz 720x576i 50Hz 720x480i 59.94Hz
Composite inputs	PAL, NTSC

Encoding

Video encoding	HD-SDI, composite or HDMI per channel
Video compression	H.264
Audio analogue sample rate	16/22.05/24/32/44.1/48kHz
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) G711 (64kbps only) G.726 (32kbps analogue audio only)

Ethernet

Supported modes	10/100/1000 BASE-TX
-----------------	---------------------

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	AES128/256 (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

Encrypted products are subject to regulatory export controls

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

AMERICA
T: +1 571 563 7077

UK
T: +44 1489 566 750

DENMARK
T: +45 8791 8100

UAE
T: +971 0 44 53 72 01

SINGAPORE
T: +65 6339 0508

AUSTRALIA
T: +61 8 8305 0311