

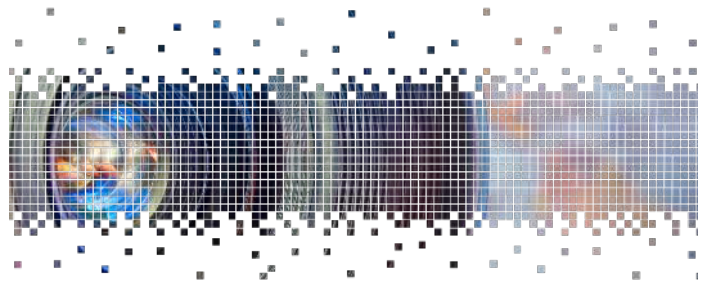
# SDRAPP-ENC

## SDR Application IP Encoder

### Overview:

SDR applications can be used in combination with SOL8SDR products to add functionality.

IP encoder built around Domo Ultra-low latency High Profile H.264 encoding technology. Highly flexible setup to suit many applications. One video source recorded at high quality at the same time as sub-resolution super low bitrate suitable for long term 3G deployment. Two video sources providing multiple view points from a single unit. Two channel audio encoder with video based ident. Motion based video analytics allow for efficient use of recording or battery capacity. Optional encryption ensures recordings, streams and transmission remain secure.



### Features and Benefits:

Dual Ultra-low latency High Profile H.264 SD and HD encoding

Video formats up to 1080p30 from two sources

Sub-resolution scaling gives flexibility from HD down to QSIF

Video analytics with motion triggered transmit and recording

OSD options such as Real Time Clock overlay

Two MPEG Audio encoders supporting range of bit rates and sample rates

UDP/RTSP/RTP streaming standards and separate MJPEG preview

Transport stream recoding for store and forward

Secure streaming and recording using optional AES encryption

### Product information:

#### Product Includes:

SDRAPP-ENC	Software license only
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#### Accessory Options (sold separately):

SOL8SDI	HDMI/Composite to SDI converter
CAMuPHDK	Pin-hole HD camera kit
DVP-xx	Domo Video Player
VDT-SW	Video Download Tool

#### Related Documents:

100218	SOL8SDR Transmitter and Encoder Software User Guide
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### Technical specification:

#### Video

Video Streams	Max total throughput of 1920x1080p30 2 HD inputs at half resolution or frame rate 2 SD inputs no constraints
SD Input Format	720x576i 50Hz 720x480i 59Hz
HD Input Format	1920x1080i 60/59.94/50Hz 1920x1080p 30/29.97/25/24/23.97Hz 1920x1080psf 30/29.97/25/24/23.97Hz 1280x720p 60/59.94/50Hz
H.264 Compression	AVC / H.264 / MPEG-4 Part 10 High profile level 4.0
MJPEG Compression	Sub-resolution preview
Coding Options	Horizontal scaling of 3/4, 2/3, 1/2, 1/4 Vertical scaling of 1/2, 1/4 Sub-frame rate of 1/2, 1/4, 1/8, 1/24
OSD Options	Date/Time and Service Name overlays
Encoder Delay	1s to 10ms (mode dependant)
Encoder Bitrates	0.25Mbps to 32Mbps

#### Audio

Sample Rates	32kHz, 48kHz (all modes) 16kHz, 22.5kHz, 32kHz, 44.1kHz (Layer III)
Coding Modes	4 channels stereo or mono MPEG-1 Audio Layer I 64-448kbps MPEG-1 Audio Layer II 32-384kbps MPEG-1 Audio Layer III 32-320kbps MPEG-2 Audio Layer III 8-160kbps

#### Data

TS Packetisation	TX mode only (MESH future development)
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#### Motion Triggers

Detection Methods	Brightness and/or Motion Vector
Trigger Actions	Transmit and/or Record
Support	TX mode only (MESH future development)

#### TS Encryption

Type	ABS 32-bit as standard
Licensable	AES 128/256-bit (subject to export control)

#### Streaming

H.264	UDP Multicast/Unicast RTSP Multicast/Unicast (TS or ES) RTP Multicast/Unicast RTP-Z Multicast/Unicast (Domo VFC) ONVIF profile S (discovery)
MJPEG	TCP

#### Recording

Medium	Internal microSD
Encryption	As per transmission/stream

#### Software License Code Includes

Silver (included)	Recording, Streaming
Gold	Silver plus MPEG-4 H.264 (SD)
Platinum	Gold plus MPEG-4 H.264 (HD)

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

For further information contact your Sales Account Manager, one of our Regional Sales Offices, or email [solent.enquiries@domotactical.com](mailto:solent.enquiries@domotactical.com)

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