

## **Description**

The INCAMTX-H system from Broadcast Wireless Systems is a COFDM digital video transmitter specifically designed to mount to the latest generation of Hitachi SK-HD and Z-HD series of cameras. It enables users to convert their SMPTE fibre or Triax equipped camera to a fully featured RF wireless camera, including full telemetry control.

Utilising class-leading Cobham RF technology and High Profile H.264 encoding, the transmitter offers Ultra Low Delay, low power consumption, exceptional range and 40% lower bit-rates compared to legacy MPEG2 systems. This allows true HD transmission in a single 8MHz channel whilst using robust, lower order modulation.

The unit also offers a full Telemetry system which provides remote control of iris, black level, colour balance and other control features, accessed from a standard Hitachi RCP (not included).

## **Key Features**

- Seamless integration into camera body for enhanced balance and reliability
- Ultra-low delay H.264 encoding (15ms end-end in 720p59 mode)
- DVB-T and UMVL modulation for enhanced highfrequency operation
- 1W booster amplifier option
- Telemetry control of iris/black-level/colour balance etc. via standard Hitachi RCPs
- Full control of all TX and telemetry functions via flip-down panel
- Low power consumption
- Flexible receive system with up to 8 antennas for extended coverage range
- Available in frequency bands from 230MHz to 8.6GHz
- Comprehensive range of accessories including 'plug-and-play' fibre-optic antenna extenders

## 

## Connectors

RF out (video/audio) N(f) RF in (telemetry) SMA(f) Audio Inputs (Line/Mic)) XLR3(f) x2 Video Out BNC(f) Ext ViewFinder Input BNC(f) External DC input XLR4(m) External Tally Out Hirose 6-pin External DC Out/Data In Hirose 4-pin

RF

Frequency Bands 340MHz to 8.6GHz (in bands)

**Tuning Step Size** 250kHz

O/P Power 100mW (1W booster available)

**DVB-T Modulation** 

**DVB-T Bandwidth** 8MHz, 7MHz and 6MHz modes

**DVB-T Guard** 1/32, 1/16, 1/8, 1/4 **DVB-T FEC** 1/2, 2/3, 3/4, 5/6, 7/8 **DVB-T Modulation** QPSK, 16QAM, 64QAM **DVB-T Bit-rates** 3.6Mbps to 32Mbps

Video

Video Input HD-SDI direct from camera Compression Type AVC/H.264/MPEG-4 Part 10

Coding Mode High profile level 4.1, I/IP 4:2:0 & 4:2:2 Progressive or Interlaced (MBAFF)

Horizontal down-sampling of 3/4, 2/3, 1/2

Audio

Analogue Audio Inputs Balanced stereo pair

+10dBu Max input level (up to 66dB

gain)

Digital Audio Input SD/HD-SDI 2 digital stereo pairs

Sample Rate 32kHz, 48kHz

Coding Modes 4 channels stereo or mono

MPEG Audio Layer 1 64-448kbps MPEG Audio Layer 2 32-384kbps

Encryption

Proprietary ABS 32bit Type

**Telemetry** 

Frequency 403-473MHz Channel BW 12.5/20/25KHz Modulation 4PSK, GMSK **RX Sensitivity** -114dBm @ 12.5KHz

-111dBm @ 25KHz

Data 19200bps @ 25KHz BW

9600bps @ 12.5KHz

Control

TX Integrated Controller

Joystick Buttons and OLED Screen

Telemetry Integrated Controller

Joystick Buttons and OLED Screen

Power

6 to 17V direct from camera battery or DC Input

DC input

Power Consumption HD encoding - 9.0W + Camera Head

worse case with 100mW RF

-10 to +50 °C Temperature Range

