



Description

The BWSCTX Compact Transmitter from Broadcast Wireless Systems is a COFDM digital video transmitter designed for non-camera-back applications.

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 features full control via its in-built control panel and daylight readable display, 'hard' on-off switch and low boot-up time after battery changes.

Key Features

- Fully featured yet compact
- Ultra-low delay H.264 encoding (15ms end-end in 720p59 mode)
- DVB-T and UMLV modulation for enhanced high-frequency operation
- 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 fibre-optic antenna extenders

Specifications

Connectors

RF out (video/audio)	N(f)
Video in	BNC(f)
ASI out	BNC(f)
Analogue audio in	Lemo 0B 5-way
Power in	Lemo 0B 4-way
PC control	Mini USB

RF

Frequency Bands	230MHz to 8.6GHz (in bands)
Tuning Step Size	250kHz
O/P Power	100mW

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

UMVL Modulation

UMVL Bandwidth	8MHz, 7MHz and 6MHz modes
UMVL Guard	1/16, 1/8
UMVL FEC	1/3, 2/3
UMVL Modulation	BPSK, QPSK, 8PSK, 16QAM
UMVL Bit-rates	1.32Mbps to 14.87Mbps

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 Progressive or Interlaced (MBAFF) Horizontal down-sampling of 3/4, 2/3, 1/2

Audio

Audio Input	Analogue: 1x stereo pair, mic/line level
Compression Type	SDI Embedded: 2x stereo pairs MPEG Audio Layer 1 64-448kbps MPEG Audio Layer 2 48-384kbps

Encryption

Type	Proprietary ABS 32bit
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Control

TX	Integrated Controller Joystick Buttons and OLED Screen
Remote Control	USB Control from PC GUI Application

Physical

Dimensions	200x110x70mm (HxWxD)
Weight	900g

Power

DC Input	6 to 17V reverse polarity protected
Power Consumption	SD encoding - 9.6W HD encoding - 12.0W worse case with 100mW RF

Environment

Temperature Range	-10 to +50 °C
Sealing	Splash Proof