



Description

The LDX-IN-Cam Transmit system from Broadcast Wireless Systems is a COFDM digital video transmitter specifically designed to mount inside the removable side panel of the GVG LDX series of cameras. It enables users to convert their SMPTE fibre 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 GVG RCP (not included).

Key Features

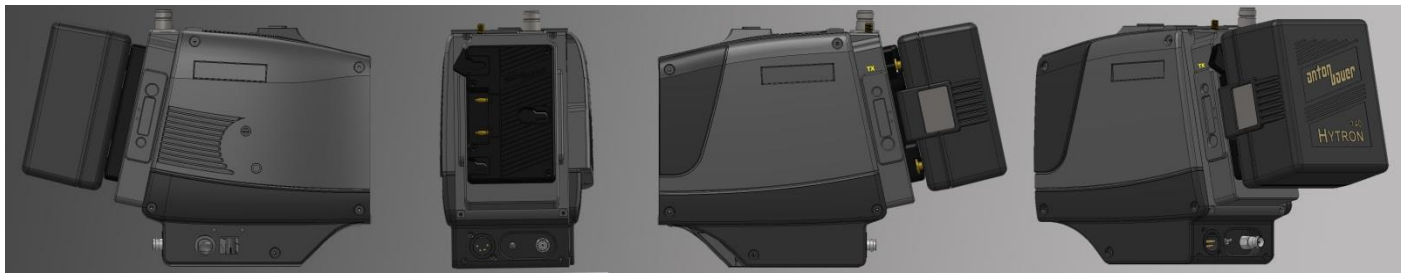
- Seamless integration into camera body for enhanced balance and reliability
- Ultra-low delay H.264 encoding (15ms end-end in 720p59 mode)
- DVB-T and UMLV modulation for enhanced high-frequency operation
- Telemetry control of iris/black-level/colour balance etc. via standard GVG RCPs
- Full control 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 fibre-optic antenna extenders

Broadcast Wireless Systems Ltd.

Lancaster Court | 8 Barnes Wallis Road | Fareham | Hampshire | PO15 5TU | UK

UK & Europe: +44 1489 222450 | MENA: +971 50 41 43210 | USA-EST: 888 736 9283 | USA-PST: 469 518 5534

www.broadcastwirelessystems.com



Connectors

RF out (video/audio) N(f)
RF in (telemetry) SMA(f)

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

Encryption

Type Proprietary ABS 32bit

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
Remote Control USB Control from PC GUI Application

Physical

Integrated into GVG LDX back

Power

DC Input 6 to 17V direct from camera
Power Consumption SD encoding - 9.6W
HD encoding - 13.0W
worse case with 100mW RF

Environment

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