TX 160CC

VideoSys Broadcast

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Our integrated transmitter combines a high quality HEVC encoder and a DVB-T/UMVL COFDM modulator with our proprietary, industry-leading camera control to create a powerful unit suitable for demanding live broadcast environments. The transmitter comes with a single-link 12G SDI video input that can handle all video formats up to UHD at 60 frames per second, and RF parameters can be configured remotely via a base station without interrupting the production flow. The 10 bit 4:2:2 H.265 encoding is suitable for HDR sources, and when combined with one of our HEVC decoders (e.g. DEC150) it can operate at an ultra-low latency of down to 40 ms (frame rate dependant). The integrated camera control allows for unidirectional and bidirectional camera control, it can connect to both serial and ethernet cameras (ask for more compatibility information), and offers unparallel robustness that is powered by our proprietary bidirectional control algorithm.

Key Features:

- 100mW COFDM Transmitter (DVB-T or UMVL)
- Remote Transmitter Control over UHF
- Supports sources up to UHD at 60 fps
- HEVC 10 bit 4:2:2 encoding (compatible with HD HDR sources)
- Ancillary Metadata Encoding (including Timecode and Rec Flag)
- Analogue audio input & audio encoding of up to 8 channels.
- Build-in camera control over UHF for all main manufacturers
- Sturdy Machined Aluminium Enclosure & Accessories
- Various Battery Plate options (V-mount, Anton Bauer)

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Technical Specification:

Connectors

RF Output	N-type (f) for Video Transmitter Antenna
UHF Input	SMA (f) for Camera Control Receiver Antenna
Video Input	12G BNC
Analogue Audio Input	5-way 0B Lemo
Camera Control	10-way Hirose
Tally Output	5-way 0B Lemo
Power Input	4-way 0B Lemo
Ethernet Control	RJ14 and 4-way 0B Lemo

Video & Audio

Analogue Audio Input	1 pair line/mic level at max 24dBu (balanced)
Phantom Power	48V
Digital Audio Input	SDI de-embedding
Coding Modes	Up to 8 channels (4 pairs) MPEG-1 Layer 1 (licenced feature), MPEG-2 Layer 2, AAC-LC, Linear Audio
Video Formats	4K UHD. 4:2:2/4:2:0, 8/10-bit 2160p / 23.98 / 24 / 25 / 29.97 / 30 / 50 / 59.94 / 60 Full HD. 4:2:2/4:2:0, 8/10-bit 720p / 50 / 59.94 / 60 1080i / 50 / 59.94 / 60 1080p / 23.98 / 24 / 25 / 29.97 / 30 / 50 / 59.94 / 60 1080psf / 23.98 / 24 / 25 / 29.97 / 30 (licensed feature) SD 4.2.2/4.2.0 480i / 29.9
Video Encoders	MPEG2, H.264, H.265 (HEVC)

RF Specifications

Camera Control	403-473 MHz
DVB-T Bandwidth	6, 7, 8 MHz
DVB-T FEC	1/2, 2/3, 3/4, 5/6, 7/8
DVB-T Constellation	QPSK, 16QAM, 64QAM
DVB-T Guard Interval	1/4, 1/8, 1/16, 1/32
Other Modulations	UMVL, Dual Pedestal
Power Output	10, 50, 100 mW
Frequency Ranges	1.0 - 1.5 GHz 2.0 - 2.9 GHz 3.0 - 3.5 GHz 5.5 - 6.0 GHz

General Specifications:

Input Voltage	7 – 35 V (reverse polarity protected)
Power Consumption	13 W
Dimensions	170mm(L) X 106mm(W) X 83mm(H)
Weight	0.96kg

Available accessories & add-ons (optional)

Anton Bauer Battery Plates
Licence – 4K Encoding