

AB-HDTX

COFDM Transmitter



The AB-HDTX Transmitter is a product focused on the future of broadcast workflow. The camera mountable TX features SD/HD encoding in a miniature transmit solution package. The AB-HDTX can deliver 100mW from a package that conveniently mounts between the Gold Mount® on your camera and Anton/Bauer Logic Series® battery.

Designed for a new generation of HD SDI capable compact cameras, the AB-HDTX supports video and embedded audio transmission with selectable bandwidths of 6, 7 and 8 MHz within the 5.8 GHz range. The unit's size makes it ideal for point of view, ENG, sporting events, and reality-based productions as well as confidence monitoring.

The AB-HDTX features superb H.264 SD and HD encoding capabilities and operates in the standard 2k DVB-T COFDM mode.

The AB-HDTX has a friendly local control panel. The local controls include the selection of up to 12 presets, High/Low RF power and TX/Standby. The AB-HDTX is a perfect companion to the AB-HDRX stand alone receiver or Direct VU handheld monitor/receiver.

FEATURES:

- 5.8 GHz
- SD and HD encoding
- Up to 100mW RF output power
- Optimized for size
- Broadcast quality video
- Wide selection of video inputs
- H.264 Part 10
- Embedded audio
- Very low power consumption
- Video, audio, data and telemetry
- User-friendly controls

ACCESSORIES:

- System Kit available

APPLICATIONS:

- ENG/EFM
- Live event coverage
- Confidence monitoring
- Camera mounted

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RF Performance:

Base Model Number	Frequency (GHz)	RF Power (dBm)	DC Power (W)
AB-HDTX	5.725 to 5.850	20	10

Tuning Step Size: 250 KHz or 1 MHz step size
Frequency Stability: ± 10 ppm

Standby Mode:

Standby: No RF output
Normal: Instant on-frequency transmission

Modulation:

Modulation Formats: COFDM (DVB-T)
Carriers: 2k
Constellation: QPSK, 16 QAM
Code Rate: 1/2, 2/3, 3/4, 5/6, 7/8
Guard Interval: 1/32, 1/16, 1/8, 1/4
Bandwidth: 6 MHz, 7 MHz and 8 MHz

MPEG Encoder:

Video:

Method: MPEG-4 Part 10/H.264
Video Coding: AVC
Video Input: Composite
NTSC: 720 x 480 (4:2:0)
PAL: 720 x 576 (4:2:0)
SD-SDI Input: ANSI/SMPTE 259M
HD-SDI Input: ANSI/SMPTE 292M

HD Formats (4:2:0):

720p 23.98/24/50/59.94
1080i 50/59.94
1080p 23.98/24/29.97/25
1080psf 29.97/25/24/23.98

SD Formats:

NTSC: 720 x 480 (4:2:0)
PAL: 720 x 576 (4:2:0)

Audio:

Audio Coding: ISO/IEC 11172-3 (Layer II)
Audio Sample Rate: 48 kHz
Audio Channels: 1 Stereo, 2 Mono Standard
Audio Input: Line, Gain selectable (-12 dB to +50 dB)
Mic, Gain selectable (-12 to +50dB); 10K Ω
Phantom power or Ext. Bias
De-embedded from SDI
Tone – Level Adjustable

System:

Video Present: Remote Standby/Test Generator selectable
Delay: < 4 frames in i and p formats
< 5 frames in psf formats
Test Generator (Dynamic): SMPTE CB (NTSC)/100% CB (PAL)
16 Character ID (Match SDT Service name)
1kHz Tone/Pulse
User Data: RS232 side channel
300-115k Baud
Remote Control: Remote RS232
Local Control: Keyboard

Power Requirements:

Input Range: DC: +9 to +28 VDC
Power Consumption: See table above

Environmental:

Temperature Range:

Full Specification: -10° to +50°C ambient
Storage: -40° to +80°C
Humidity: 0 to 95% non-condensing

Altitude:

Operating: 20,000 ft (6,000 m)
Storage: 50,000 ft (15,000 m)

Physical Characteristics:

Size: 5.41" (H) x 4.01" (W) x 2.63" (D)
Weight: 1.4 lbs (635 g)