



# CMT-II

## HD Upgradable, Camera-Mount Transmitter



### APPLICATIONS:

- Camera mounted mobile transmitter
- Compact portable transmitter

### FEATURES:

- Standard SD or optional full HD performance
- High-quality video transmission, yet simple-to-use operation
- Robust range
- Low latency/delay; 73 ms low delay or 2 ½ frames standard delay
- Lightweight; 2 lbs, adds negligible weight to the back of a typical ENG camera
- 16 preset encoding schemes; 'set it and forget it'
- Intuitive menu structure and navigation
- 18W low power consumption equals robust battery life
- CVBS, SDI, HD (SDI), and ASI inputs
- Analog, AES, Embedded audio

### OPTIONS:

- Available in 2.0, 5.8, and 6.4 GHz models
- High definition upgradable
- External 12VDC power supply

The CMT-II from RF Central offers total value in high quality, low delay, Standard Definition and optional High Definition encoding technology. This lightweight digital COFDM transmitter is right at home on the back of today's sophisticated line of ENG and EFP cameras. The outstanding HD or SD video quality combined with low delay capabilities, make it an excellent choice for ENG news, worship, sporting events and live reality based field production.

The CMT-II features an intuitive menu structure designed with the user in mind. An integral LCD display provides status and alarms of all basic functions. Simplicity in operation is a hallmark at RF Central, and the unit features 16 preset encoding schemes taking the guesswork out of set up. The user may also select two user presets of their own design. The CMT-II features silent operation, strong but lightweight construction to reduce weight, and features low power consumption.

The high quality linear RF amplification technology delivers superb spectral re-growth specifications, less than -35dBc at full power. This unit is available in standard definition or may be optionally upgraded to high definition.

Flexibility is key and the CMT-II will accept NTSC/PAL Composite, SDI Video, ASI or optional HD (SDI) video inputs. The unit additionally handles mic or line inputs with selectable gain, and has the capability to handle SDI-embedded audio as well. The unit is delivered with Anton/Bauer battery mounts. Other mounts available upon request.

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<b>Frequency:</b>	2.0 GHz, 5.8 GHz, and 6.4 GHz (other bands available)
<b>Tuning Range /Frequency Selection:</b>	Selectable via side panel in 0.25 MHz steps
Transmit Power:	100 mW
Transmit Antenna:	4dBi gain typical (shown)
Modulation:	COFDM DVB-T (2k carrier)
Modulation Modes:	QPSK, 16QAM, 64QAM
FEC:	1/2, 2/3, 3/4, 5/6, 7/8
Guard Interval:	1/4, 1/8, 1/16, 1/32
Data Rate:	5.5 to 31.7 Mbit/s
Bandwidth:	6, 7, and 8 MHz
Frequency Tolerance:	2.0 PM
Encoding:	MPEG2 Video (ISO/IEC 13818-2)
Latency:	Low or Std Delay
Data Port Interface:	DVB-ASI
Video Input:	
Digital:	HD-SDI-SMPTE- 292m (with HD Upgrade) SD-SDI-SMPTE- 259m ASI NTSC/PAL composite
Analog:	
Supported Video Profiles:	
SD:	422P@ML, MP @ ML, SP@ML
HD:	MP@HL 720p to 1080i
Sampling:	4:2:0 or 4:2:2
<b>Audio Input:</b>	2 x analog inputs, mic/line selectable, digital AES, SDI-embedded
<b>Power Requirements:</b>	10-35 VDC $\leq$ 18W via Battery Plate or 4-pin Lemo socket
<b>Mechanical Interface:</b>	Transmitter normally mounts between battery and camera interface plate. Available with interface plates to suit Anton Bauer or other mounts (specified at time of order).
<b>Physical:</b>	
Size:	2.1" W x 6.3" H x 5.1" D (5.3 x 16.0 x 12.95 cm)
Weight:	2.1 lbs (0.95 kg) <i>(including antenna)</i>
<b>Environmental:</b>	
Temperature:	-20 to +50°C
Altitude:	14,500 ft (4,420 m)
Humidity:	95% long term