

## HD/SD Portable Two Box Transmitter/Receiver

### Features:

- Separate RF Head and Control Unit (up to 600 meters)
- Available in single band, dual band or tri-band
- Multiple modulation selectable: FM, COFDM, QAM, VSB, DVB-S
- PAL and NTSC compatible-auto switches
- Integrated universal AC/DC power supply
- Remote control of all functions via RS-232
- Dynamic color bars with field programmable ID
- HD/SD-MPEG2 encoding, supporting 4:3 and 16:9 aspect ratios
- Video inputs: composite video, SDI, DVB-ASI
- Integral SDI to composite video converter for FM operation
- Front panel LCD smart display for total control
- Fifteen quick-store hot button preset keys
- Video presence detection and control
- Intercom between Control Unit and RF Head

### Options:

- Variety of single and multi-band antennas
- Rain shield, carrying cases and tripods
- Duplexers/diplexers



The ChannelMaster TX7T/RX7T is available in single dual or tri-band configurations. Frequency bands are available from 1.5-15.4 GHz. The ChannelMaster includes an integrated HD/SD MPEG2 encoder/ decoder with COFDM, VSB and FM modulators.

The TX Control Unit contains the HD/SD MPEG2 encoder and COFDM modulator that has a low delay mode of less than 75 msec. For increased flexibility a wide array of inputs/outputs are provided, including Composite video/audio, SDI, HD-SDI, ASI and 70 MHz. The ASI input/output are ideal for use with an external MPEG2 encoder or to support digital repeater applications.

For FM operation, an internal SDI to composite converter is integrated providing seamless operation between analog FM and digital COFDM modes. This eliminates the need for an external converter when used in an SDI plant.

The RF Head contains the RF Up-Converter and Power Amplifier with analog powers to 12 Watts and digital powers to 5 Watts. The Control Unit and the RF Head mount easily to tripods and are connected by a Triax cable that extends operation to distances up to 600 meters.