

Clip-On 4

Camera Transmitter

Designed for HD and SD cameras used for electronic newsgathering, television outside broadcasts and studio applications. With low-latency, down to one frame (20 ms) using H.264 encoding, the Clip-On 4 offers exceptional picture quality and capability. No other wireless camera system can match the outstanding RF performance of the Clip-On 4. The optional CCCU add-on module provides camera control capability (FocalPoint compatible).



Key Features

- Interchangeable RF Modules
- Ultra Low Delay down to 20ms H.264
- 1080P 3G video support
- Add-on CCCU camera control module (FocalPoint compatible)
- Add-on PA Barrel Booster option
- Encryption BISS 1 and E (option)

Typical Applications

- Newsgathering
- Event Coverage
- Sports Coverage

Frequency Band

- 1.4 - 1.7 GHz*
- 1.9 - 2.7 GHz*
- 3.1 - 3.5 GHz
- 3.3 - 3.7 GHz
- 4.5 - 4.8 GHz
- 5.4 - 5.8 GHz
- 5.7 - 6.0 GHz
- 6.4 - 7.2 GHz
- 6.8 - 7.5 GHz

*Pre-distortion correction

Frequency Selection

- Up to 16 pre-set channels or tuning in 1 MHz steps via side mounted panel control (500 kHz steps available to special order)

Modulation

- COFDM DVB-T 2K
- ISDB-T 2K with Time Interleaving selectable 100 ms, 220 ms, 440 ms (factory option)
- LMS-T (licensed option)

Modulation Modes

- QPSK, 16QAM, 64QAM
- FEC: 1/2, 2/3, 3/4, 5/6, 7/8 (modulation dependant)
- Guard interval: 1/32, 1/16, 1/8, 1/4

Latency

- Selectable down to sub 1 frame, 20 ms

Frame Rates

- 1080i 25/59.94/60
- 720p 50/59.94/60
- 1080p 50/59.94/60

Bandwidth

- DVB-T 6, 7, 8 MHz switchable
- LMS-T scalable 3 to 20 MHz (licensed option)

User Data Input (camera control return data)

- Selectable 1200 to 230,400 baud

HDMI

- Test signal: Colour bars

Video Input

- SDI HD SMPTE-292M (299M) 1080i/720p/1080P
- SDI SD SMPTE-259M (272M) 576i/480i
- Analogue: CVBS (PAL/NTSC) or component YUV, Y/C

ASI Input

- ASI input, selectable through front panel menu
- Built in ASI MUX
- ASI output

GOP & PIDS

- GOP Selectable 1 to 30
- PIDs user configurable

Transmit Power

- User-selectable 10 mW/ 50 mW/100 mW*

Transmit Antenna

- Omni Directional 4 dBi gain (nom.)

*200 mW (subject to frequency)

Audio Input

- 4 channels, Analogue mic/line switchable
- SDI embedded, AES digital, HDMI
- Audio encoding rate selectable 128, 256, 384 kBit/s
- Test signal: Audio tones

Encoding

- H.264/MPEG-4, level 4.1 video, or MPEG-2
- Profile 4.2.0/4.2.2 selectable
- Audio MPEG-1 layer 2/ layer 1 selectable

Data Rate

- DVB-T 4.98 to 31.7 Mbit/s
- LMS-T up to 43 Mbit/s, bandwidth dependent (factory option)

Remote control

- Ethernet port, web browser interface.

Size and Weight

- Dimensions
 - 178 mm x 106 mm x 91 mm (including connector)
- Weight
 - 0.95 kg

Power Supply

- 10 - 35V DC

Environmental

- Operating Temperature:
 - -20°C to +50°C (-4°F to 122°F)
- Altitude:
 - 4500 m (14,763 ft.)
- Humidity:
 - 95% long term