

# L1700 Wireless Transmitter



## OVERVIEW

The L1700 range of wireless video transmitters represent the next generation of flexible wireless systems from Link. Now even more powerful this new range is the most compact and versatile available. With multiple inputs and mounting options this unit can be mounted to a full broadcast camera for sports broadcasters or ENG camera for news or even a prosumer camera to broaden the market reach further.

With user interchangeable RF modules and a range of software licensable options the Link L1700 continues the line of innovative, high performance RF transmitters.



*L1700 range wireless transmitter*

## FEATURES

### L1730 / L1731

- H.264 very low latency SD / HD AV encoder
- HD-SDI / 3G HD-SDI / HDMI / Composite input
- 4:2:0 & 4:2:2 up to 1080i 60 (L1730 / L1731)
- 4:2:0 up to 1080p 60 (L1731)
- Docks with L1750 range of transmitter modules
- Integrated camera control (requires L1750 for UHF reception)
- Wi-Fi control
- Video streaming over RJ45 ‡
- Headset support (talkback) ‡
- Advanced thermal management

### L1750 - 1927

- Up to 250mW power output
- DVB-T modulation
- LMS-T proprietary modulation for optimised mobile performance
- Link Digital Pre-Distortion
- Integrated UHF receiver for camera control option
- Deep interleaving option ‡

## OPTIONS

- HD
- Camera control
- Variable bandwidth LMS-T
- Deep interleaving ‡
- 4:2:2
- IP streaming ‡
- Remux ‡
- Camera mounting brackets
- Transmit and receive antennas
- RS232 data ‡
- 250mW output

## SPECIFICATIONS

**TRANSMITTER:**

- L1750-1927 1.95GHz to 2.7GHz frequency range
- DVB-T at bandwidths of 6 / 7 / 8 MHz
- LMS-T proprietary modulation for enhanced mobile operation
- LMS-T bandwidths of 3, 4, 5, 6, 7, 8, 10, 12, 14, 16, 20 or 24MHz with 2 carrier density options
- Optional Link Digital Pre-Distortion for enhanced adjacent channel performance

**UHF RECEIVER:**

- 410MHz to 490MHz frequency range

**ENCODER:**

- 20ms to 1340ms latency depending on operational mode
- H.264 4:2:2 8-Bit to 1080i 60 high 4:2:2 level 4.1 (L1730)
- H.264 4:2:0 8-Bit to 1080p 60 (L1731)
- 1920, 1440 & 960 horizontal resolutions at 1080i
- 1280, 960 & 640 horizontal resolutions at 720p
- 2 stereo audio pairs MP1L1 and MP1L2

**FRAME RATES (FPS):**

- |         |                      |             |
|---------|----------------------|-------------|
|         | L1730                | L1731       |
| • 1080p | 23.98/24             |             |
| • 1080i | 23.98/24/50/59.94/60 |             |
| • 720p  | 25/29.97             | 25/29.97/30 |
|         | 50/59.94             | 50/59.94/60 |

**VIDEO INPUTS:**

- SDI / HD-SDI (L1730) / 3G SDI (L1731) (BNC)
- HDMI (Type-D) ‡
- Composite (Lemo)

**AUDIO INPUTS:**

- Embedded audio over SDI / HD-SDI (L1730) / 3G SDI (L1731)
- 1 analogue audio stereo pair (Lemo)
- Mic / Line level support with phantom power
- Headset audio input

**ASI (LEMO):**

- Input (for service multiplexing) ‡
- Output
- Input and Output on multifunction pins

**NETWORK (RJ45):**

- 100Mbit/s Ethernet ‡
- Input Transport Stream over UDP (for service multiplexing) ‡
- Output Transport Stream over UDP or RTP ‡
- Integrated webserver for control

**NETWORK (WIFI):**

- 2.4GHz / 5GHz
- Mobile phone / tablet friendly web pages

**CAMERA CONTROL (LEMO):**

- Support for various professional broadcast cameras ‡
- Used in conjunction with an L1750 module
- Dual channel wet tally 12V output (1W each max) ‡

**DATA INPUTS:**

- RS232 input relayed to receiver e.g. for external GPS unit

**HEADSET (3.5MM JACK):**

- Headset microphone audio selectable as audio source
- Future support for talkback (subject to confirmation) ‡
- Primary audio channel monitoring ‡

**USER INTERFACE:**

- OLED display for enhanced visibility

**DOCKING MODULE INTERFACE:**

- Docks with L1750 transmitter / UHF receiver

**POWER:**

- Power supply via Lemo e.g. to connect to D-Tap power source
- Extended operation voltage range 10V to 32.2V

**POWER CONSUMPTION:**

- Nominally 15W in standard configuration (with L1750-1927) ‡

**DIMENSIONS:**

- 135 (L) x 40 (H) x 83 (W) mm (inc. Removable heatsink mounts, exc. RF connectors)

**WEIGHT:**

- 550g (including removable heatsink, excluding antennas) ‡

**ENVIRONMENTAL:**

- Operating Temperature: -10° C to +50 C ‡

**NOTES:**

- ‡ Availability subject to confirmation.
- Some features specified are available via optional licenses
- Not all encoder interface options are concurrently available
- We reserve the right to change specifications at any time without prior notice

