

TRX992

DIGITAL WIRELESS TRANSCEIVER

The Zaxcom TRX992 transceiver is your all-in-one solution for boom and parabolic microphone necessities. Instead of having a belt full of single purpose products the TRX992 performs the functions of wireless transmitter, an audio monitor channel receiver, a backup recorder and phantom power supply – all with ample battery power and robust connectors in a fully machined aluminum case. To keep things cost effective and eco-friendly it utilizes a rechargeable battery system.

FEATURES

- 100% digital wireless transmission
- 106 dB transmit audio dynamic range
- Built-in 2.4 GHz IFB receiver for monitor return
- Balanced XLR input with 48V phantom power
- Mic / line level input
- User selectable 10, 25, 50 or 100* mW output power
- Rechargeable battery power system
- Built-in time code referenced backup recording (Patent Pending)
- Internal time code reader / generator
- RF remote controllable
- Internal headphone monitor mixer
- Headphone limiter
- 100% machined aluminum case



■ Zaxcom Digital Audio Quality

The audio transmission quality from the TRX992 sounds like it's coming from a hard wire, free from all compander artifacts and transmission distortions. Complex audio waveforms generated by large diaphragm microphones cannot be accurately recreated using an FM based system, clearly giving digital wireless the advantage.

■ Digital IFB Audio Quality

The TRX992 boasts Zaxcom's new digital IFB receiver bringing the same compander-free audio quality to the return side of the TRX992. Critical audio judgments of return boom audio can now be made using a wireless return.

■ Internal Monitor Mixer and Headphone Output

The boom operator can mix between the IFB return and the transmitted boom audio via a control pot located on the top plate of the TRX992 providing maximum flexibility of audio monitoring.

Private Line Talkback Mode

At the press of a button the **TRX992** transmission can be routed to a separate receiver output for private communication to the production sound mixer. The private communication is indicated by a tone introduced into the **TRX992's** headphone monitor. This eliminates the need for a walkie-talkie or separate wireless communication channel and keeps the back channel quiet during takes ensuring there is no confusion with the recorded audio from the boom microphone.

Remote Control

In addition to carrying return audio, the true diversity receiver in **TRX992** can receive time code reference and remote control commands. Remote parameters include audio gain, RF frequency, timecode sync, remote roll and recording functions. Gain can be remotely adjusted during a take.

Internal Recording

Timecode referenced internal backup recording (Pat Pending) eliminates the possibility of an RF hit ruining a take. A high-resolution recording of your transmission will ensure you never again have to explain to the director that you didn't get the audio. With an 8 GB media card you can record up to 48 hours of 24 bit digital audio.

Balanced Mic Level Input

The balanced mic level input eliminates the ground loops and level mismatch issues common to FM body pack solutions in use today. Feeding the boom mic to a microphone preamp then feeding its line level output to an unbalanced FM transmitter is likely to cause a mismatch of dynamic range and is susceptible to induced noise from cell phones and lighting on set. The balanced microphone input of the **TRX992** directly driving a balanced input A-D conversion is the cleanest solution available for boom pole audio capture and transmission. This solution is fully differential and offers high common mode rejection.

Studio Quality Microphone Preamp

The **TRX992** incorporates a studio quality microphone preamp. The availability of a high power battery gives the **TRX992's** microphone preamp a dynamic range of 130 dB resulting in ultra low distortion and ultra low noise with excellent common mode rejection.

SPECIFICATIONS

Transmitter

RF Power output	10 / 25 / 50 / 100* mW - Software Selectable
RF Modulation	Digital - proprietary method
RF Frequency Range	518.0 to 872.0 MHz (separated into 30 MHz blocks)
RF Frequency Step	100 KHz
RF Bandwidth	US setting: 200 KHz Euro setting: 125 KHz
Channel Separation	500 KHz (700 KHz recommended)
Antenna Connector	50-ohm SMA female
Emission Designator	180 KV2E
FCC Part	74.861

Transmitter Audio

Dynamic Range	106 dB
Distortion	.001%
Frequency Response	Mode 0: 20 Hz to 16 kHz T&M Model: 0.2 Hz to 16 kHz
Highpass Filter	Off or 30 to 220 Hz, step: 10 (6 dB per octave)
System Group Delay	US mode: 3.6 ms Euro mode: 6 ms
Mic Power	48 VDC Phantom, balanced, 10 mA max
Mic Connector	XLR-3F
Input Range	Line-level: -10 to +4 dBu Mic-level: -60 to -30 dBu
ADC Bit-depth	24 bits

Recording

Media	MiniSD card (Flash memory)
File Format	.ZAX
Recording Time	24 hours (with a 4 GB card)
Timecode Frame-rates	23.98, 24, 25, 29.97NDF, 29.97DF, 30NDF, 30DF
Timecode Type	SMTPE

IFB Receiver

RF Frequency Range	2.403 to 2.475 GHz
RF Frequency Step	0.001 GHz (1MHz)
RF Bandwidth	1 MHz DSS
Channel Separation	2 MHz (8 MHz recommended)
Sensitivity	-96 dBm
DAC Bit-depth	24 bit
DAC Rate	48 kHz
Frequency Response	20 Hz to 12 kHz
Output Impedance	8-ohm minimum

Physical

Weight	13.2 oz.
Dimensions	(5.5" x 2.9" x 1.1")
External Power	N/A
Internal Power	Life: up to 4 hours @ 50 mW Type: one VPX battery
Display	Graphic LCD

*100mW power output is available by request, standard output is 50 mW maximum

