IFBR1B

TECHNICAL DATA

UHF Multi-Frequency Belt-Pack IFB Receiver

IFBR1B, IFBR1B-941, IFBR1B-VHF

- **Stores up to 10 frequency presets in memory**
- **LCD interface for programming and operation**
- **High sensitivity for extended operating range indoors or outdoors**
- **USB port for firmware updates**
- **Compact, rugged machined aluminum housing**
- **Attached battery door**
- **8+ hours battery life with removable LB-50 Li-ion**

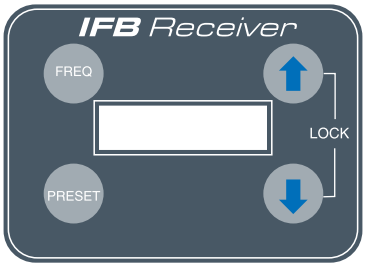
Wireless IFB (interruptible fold back) systems are used for talent cueing and crew communications in broadcast and motion picture production. In other cases, the IFB system is used by directors and other management to monitor program audio during a production. The IFBR1B receiver provides simplicity and flexibility in a package that is intuitive for untrained users to operate. In spite of its tiny size, the new IFBR1B receiver offers excellent performance on par with all of Lectrosonics' IFB products.

The design uses +/-20 kHz FM deviation for efficient use of the bandwidth, with compandor noise reduction circuitry for an excellent signal to noise ratio. A supersonic Pilot Tone signal controls the audio output squelch to keep the receiver silent when no transmitter signal is received. The incoming RF signal is filtered and amplified, then mixed down to the IF frequency with a microprocessor controlled synthesizer.

NOTE: The IFBR1B does not ship standard with the single battery charger. To order this unit with a charger, order as IFBR1B-WITH-CHARGER.

If a monaural earpiece is connected, this condition is automatically accommodated, with no loss of audio output power or battery life. Full output power is available with either type of connector, without the power losses that result from a resistive circuit design. The headphone cable doubles as the receiving antenna.

The receiver will drive a wide variety of earbuds, headphones and induction neck loops at substantial levels, with loads from 16 Ohms to 600 Ohms.



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Rio Rancho, NM, USA
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An attached sliding door makes battery installation easy. The USB port is located in the battery compartment.

The receiver operates on a single 3.6 V rechargeable LB-50 Li-ion battery that will provide about eight hours of operation per charge. The LED indicator changes color from green to red as the battery voltage declines to provide plenty of warning before operation ceases. Inside the battery door is a USB port for firmware updates in the field.

The IFBR1B is housed in a rugged machined aluminum package. A wire beltclip is included and provides a secure mounting on a wide variety of belts, pockets and fabrics.

Specifications

Operating Frequencies (MHz):

Band A1:	470.100 - 537.575
Band B1:	537.600 - 614.375
Band C1:	614.400 - 691.175
Block 941:	941.525 - 951.975
	952.875 - 956.225
	956.475 - 959.825
VHF:	174.100 - 215.750

NOTE: It's the user's responsibility to select the approved frequencies for the region where the transmitter is operating.

Frequency Selection Steps:	25 kHz or 100 kHz, selectable; VHF: 125 kHz
Sensitivity:	1 uv (20 dB SINAD)
Signal/Noise ratio:	95 dB A-weighted
Squelch quieting:	90 dB
AM rejection:	50 dB, 10 uV to 100 mV
Modulation acceptance:	±20 kHz
Spurious rejection:	Greater than 70 dB
Operating temperature range:	-20 to 45 degrees C.
Third order intercept:	0 dBm
Frequency response:	100 Hz to 10 kHz, (+/-1 dB)
Audio output:	1V RMS into 50 ohms minimum
Antenna:	Headphone cable
Min. headphone impedance:	16.0 Ohms
Programmable memory:	10 frequencies can be stored as presets
Controls:	
Top Panel:	Single knob controls Audio Output Level and Power On
Side Panel:	Membrane switches with LCD interface for Frequency Selection and Preset function
Indicators:	Multi-color LED indicator for power on and battery status
Battery:	LB-50 Li-ion 3.6 V 1000 mAH
Battery Life:	8 hours per charge with LB-50 Li-ion battery
Current consumption:	120 mA
Weight:	3.4 oz (with battery and wire belt clip)
Size:	2.8 x 2.4 x 0.8 in.
	71.1 x 70.0 x 20.3 mm

Specifications subject to change without notice.

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