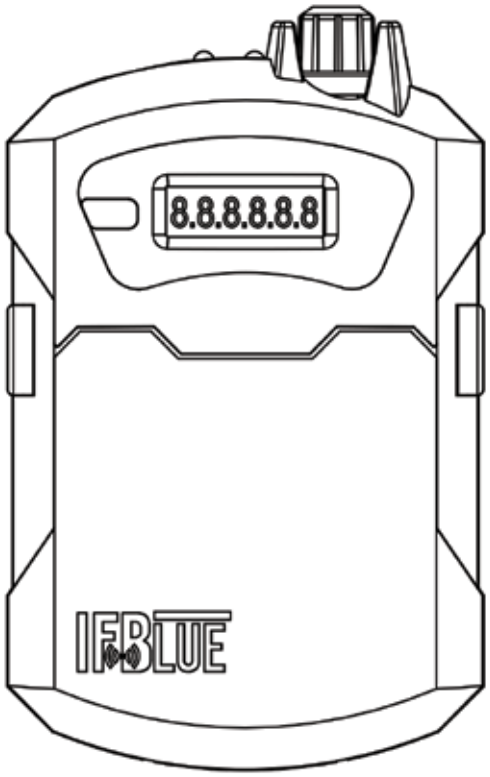
IFBR1C

TECHNICAL DATA

UHF Multi-Frequency Belt-Pack IFB Receiver

IFBR1C, IFBR1C-941, IFBR1C-VHF



- **Compatible with Lectrosonics IFB transmitters including Hybrid transmitters in IFB mode**
- **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 injection molded ABS housing**
- **Attached battery door**
- **2 AA batteries; alkaline, lithium, or NiMH rechargeables (supplied)**

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 IFBR1C receiver provides simplicity and flexibility in a package that is intuitive for untrained users to operate. In spite of its tiny size, the new IFBR1C receiver offers excellent performance.

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

If a monaural earpiece is connected, this condition is automatically accommodated, with no loss of audio output power or battery life. Full audio 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.

The receiver operates on AA batteries that will provide more than 12 hours of operation. 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 IFBR1C is housed in a durable, injection molded package. An attached beltclip is included and provides a secure mounting on a wide variety of belts, pockets and fabrics.

IFBLUE

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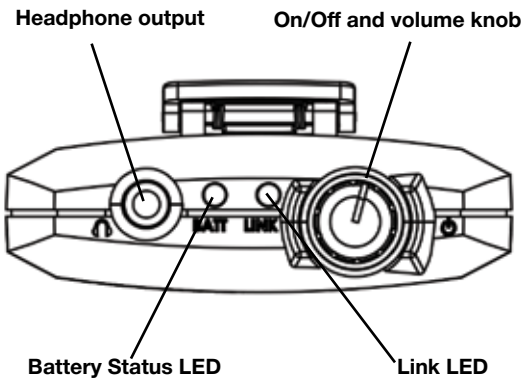
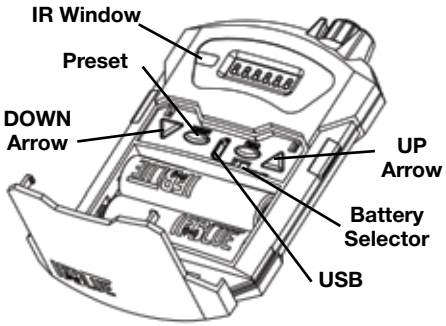




IFBR1C functions with two (2) AA batteries; alkaline, lithium, or NiMH rechargeables (supplied). Pinch the buttons on each side of the battery door, and pull the door toward you to open. Install the batteries according to the polarity diagram. Select either “primary” (non-re-chargable) or “NiMH” (rechargeable) via the slide switch next to the USB connector. Press the battery door closed until you hear the retaining clasps snap.

Specifications

Operating Frequencies (MHz):

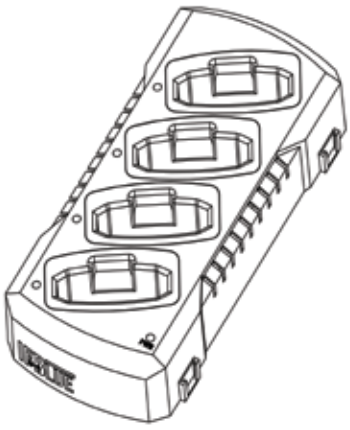
Band A1:	470.100 - 537.575	
Band B1:	537.600 - 614.375	
Band C1:	614.400 - 691.175	
Block 941:	Locale - -	Locale CA (Canada)
	941.525 - 951.975	941.525 - 951.975
	952.875 - 956.225	953.025 - 956.225
	956.475 - 959.825	956.475 - 959.825
VHF:	174.100 - 215.750	

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; VHF: 175 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 50 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:	Two AA batteries (+1.5 VDC each)
Battery Life:	10 hours (Alkaline), 12 hours (NiMh), 20 hours, 40 minutes (Lithium)
Current consumption:	120 mA
Dimensions:	Height: 107mm/4.20 in. (including knob) Width: 67mm/2.60 in. (at widest point) Depth: 28mm/1.10 in. (at widest point of clip)
Weight:	4.6 oz (130 g) with batteries

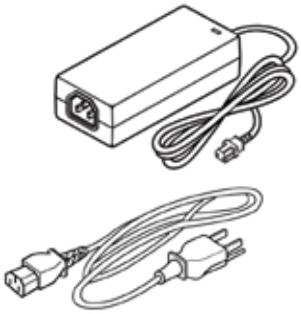
Specifications subject to change without notice.

Accessories



CHSIFBR1C

IFBlue Receiver battery charging station; up to four units can be charged at once. Includes power supply and AC power cable.



DCR5-9AU

Replacement power supply for the CHSIFBR1C, charging station. Includes AC power cable appropriate for region of operation.

Designed and Distributed by Lectrosonics, Inc.
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