Bogen Enhancer

Infrared Wireless Voice Enhancement System

Basic ENHANCER system: dual-channel receiver with AC power adapter, two IR sensors, and body-pack transmitter (with lavalier and headset microphones, and body-pack microphone with lanyard)

Description

The Bogen Enhancer is a dual-channel, Infrared (IR) Wireless Microphone System designed for educational and institutional use to enhance a presenter's voice in all areas of the room. The Enhancer uses infrared technology, eliminating the interference and cross-talk from adjacent rooms that occurs in FM-based wireless products.

The Enhancer is a building block for a voice enhancement system that can help presenters by reducing the effects of poor room acoustics and the weakening effect of voice traveling through air. The basic system is comprised of a dual-channel receiver; two IR sensors; a body-pack transmitter with lanyard; and lavaliere, body-pack, and headset microphones. Additional sensors, handheld microphones, rechargeable batteries and chargers are available to expand the system's capabilities. When integrated with Bogen's wide range of amplifiers and speakers, the Enhancer provides an effective and flexible voice reinforcement system.

Features

- Basic ENHANCER system includes dual-channel receiver, two IR sensors, lanyard, and body-pack transmitter (with lavaliere, body-pack, and headset microphones)
- Also available: Wireless Handheld Microphone-Transmitter, Rechargeable Battery Packs, Battery Chargers and additional IR sensors
- Infrared Wireless Microphone System designed for presenters in educational and institutional settings
- Simultaneous dual-channel operation
- Separate volume controls for each channel
- Body-pack transmitter with belt clip
- Two wide-angle, IR sensors allow for complete room coverage
- IR Sensors can be expanded to tailor coverage to every size room (see accessories)
- Wide-dispersion emitter array in transmitters
- Unbalanced mixed audio output
- Wireless Handheld Microphone/Transmitter (BCWHT) allows for student participation and team teaching (sold separately)
- Break-away lanyard with adjustable cinch
- Microphones and body-packs operate on 2 AA batteries
- Flexible system configures to meet different needs in different settings

Accessories

- BCWBT – Wireless Body-pack Transmitter (one included with system)
- BCLM – Lavaliere-type Microphone (use with BCWBT; one included with system)
- BCHM – Headset-type Microphone (use with BCWBT; one included with system)
- BCBM – Body-pack Microphone (use with BCWBT; one included with system)
- BCIRS – Infrared Sensor for expanding IR receiver coverage (two included with system)
- BCYA – Y-Adapter cable allows easy connection of additional BCIRS Sensors
- BCWHT – Wireless Handheld Microphone/ Transmitter
- BCBRBP – NiMH Battery pack for BCWBT transmitter
- BCBRA – Recharging unit for BCBRBP/BCWBT
- BCHRBP – NiMH Battery pack for BCWHT transmitter
- BCBC – Recharging unit for BCHRBP/BCWHT

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Specifications subject to change without notice.

Part No. 54-8023-31D 0808

Technical Specifications

BCWR Receiver

Mode:	Infrared Frequency Modulated
Receiving Channels:	Dual-Channels A & B
Carrier Frequency:	Ch A: 2.0 MHz; Ch B: 2.6 MHz
Audio Frequency Response:	60 Hz -12 kHz
S/N Ratio:	>90 dB
Audio Mix Output:	400 mV, unbalanced
Range (line-of-sight):	Up to 30 ft.
Controls:	Power On/Off (front); Ch A and Ch B Volume Controls (rear)
Connectors:	2 - IR Sensor Coaxial-type jacks (rear); 1 - Ch A/B Audio Mixer output, RCA-type jack (rear) 1 - AC Power input jack (rear)
Power Requirements:	16V AC, 600mA (via AC adapter)
Power Consumption:	8W
Dimensions:	10-5/8" W x 2" H x 7-3/8" D
Weight:	4 lb.

BCWBT Body-pack Transmitter

Carrier Frequency:	Ch A: 2.0 MHz; Ch B: 2.6 MHz
Audio Input:	Body-pack-type Omni-directional Condenser Microphone Lavaliere/Lapel-type Omni-directional Condenser Microphone Headset-type Uni-directional Condenser Microphone
Controls:	On/Off Switch, Volume Control, Ch A/B Select Switch
Connectors:	3.5mm Locking Jack (MIC Connection); DC Input charge jack
Power Requirements:	2 AA Batteries (2.4V DC)
Optional Rechargeable Battery Pack:	BCBRBP
Optional Battery Charger:	BCBRA
Dimensions:	2-5/8" W x 3-7/8" H x 1-11/16" D
Weight (Transmitter):	3.6 oz.
Weight (Headset):	1.1 oz.

BCWHT Handheld Microphone/Transmitter (Optional)

Carrier Frequency:	Ch B: 2.6 MHz
Audio Input:	Uni-directional Dynamic Cartridge Microphone
Controls:	On/Off Switch
Power Requirements:	2 AA Batteries (2.4V DC)
Optional Rechargeable Battery Pack:	BCHRBP
Optional Battery Charger:	BCBC
Dimensions:	10-5/16" D x 2-5/16" dia.
Weight:	14 oz.

Architect & Engineer Specifications

The system shall be the Bogen Enhancer, comprised of Bogen Model BCWR Receiver; Model BCWBT Body-pack Transmitter with lavaliere, body-pack, and headset microphones; lanyard; and two (2) Model BCIRS Infrared Sensors. The unit shall have two receiving channels with carrier frequencies of 2.0 MHz (Ch. A) and 2.6 MHz (Ch. B). The unit shall have two audio output volume controls. The unit shall have an unbalanced audio output.

The BCWBT Body-pack Transmitter shall operate on two (2) AA batteries or on an optional rechargeable NiMH battery pack (Model BCBRBP, sold separately). The recharging unit for the BCWBT/BCBRBP shall be Model BCBRA (sold separately). The BCWBT shall weigh 3.6 ounces and measure 2-5/8" W x 3-7/8" H x 1-11/16" D. The Transmitter shall include lavaliere, body-pack, and headset microphones; an adjustable, break-away neck lanyard; and a belt clip.

The Enhancer system shall include two (2) BCIRS infrared sensors. Each sensor shall include mounting brackets and a 35-foot plenum-rated cable. The Enhancer shall accept additional BCIRS Sensors with the use of the BCYA adapter (sold separately).

A wireless Handheld Microphone/Transmitter will be available separately. It shall be model BCWHT. It shall operate on two (2) AA batteries or on an optional rechargeable NiMH battery pack (Model BCHRBP, sold separately). The recharging unit for the BCWHT and BCHRBP shall be the BCBC (sold separately).

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