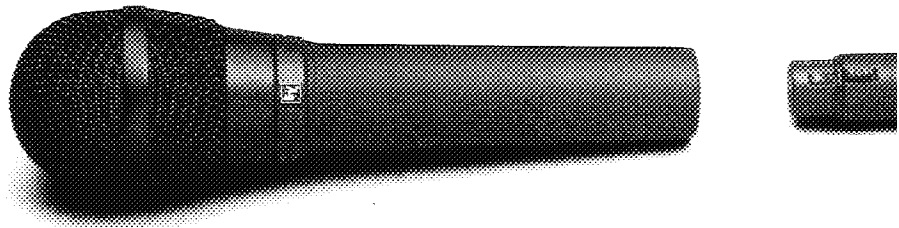


# R-SERIES

WIRELESS MICROPHONE SYSTEM



# "Electro-Voice



## True Wireless Freedom

The Electro-Voice R-Series™ wireless microphone system puts EV's legendary performance and reliability at a price where you no longer have to decide between what you can afford and what you really want. High-quality, high-value Electro-Voice wireless freedom is now within reach.

## Freedom of Choice

Flexibility is the reason the R-Series™ wireless systems are such a tremendous value. Choose from a broad selection of transmitters designed to match your needs: a handheld microphone or a bodypack with a condenser lavalier microphone, a headset or an instrument cable. With R-Series™ wireless, vocalists, presenters and musicians can have the clear, natural sound they've come to expect from Electro-Voice, regardless of application.

## Freedom from Worries

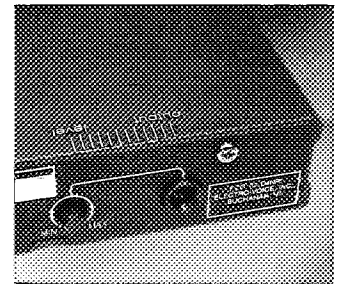
R-Series™ receivers are housed in solid metal cases designed to protect their sophisticated electronics and minimize interference from all electrical and rf sources. They were built to withstand more abuse than any road trip can dish out. Both the R1 nondiversity receiver and the R2 true-diversity receiver are available in ten VHF frequencies for maximum compatibility with local conditions.

## Affordable Wireless Leader in Microph

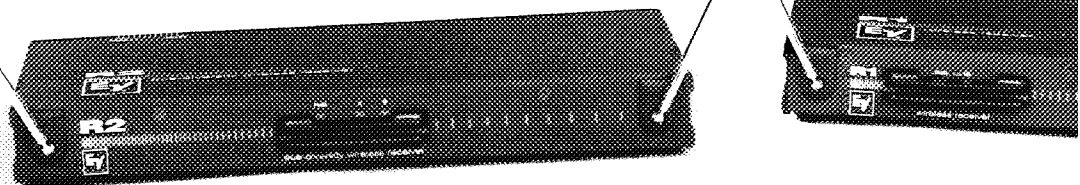
### R-Series™ Receivers

A specially designed 2-to-1 logarithmic companding circuit provides extended dynamic range and low-noise operation. An adjustable output level control allows fine-tuning of the signal from the receiver for the best signal-to-noise ratio.

Each receiver features front-mounted, collapsible antennas. The R2 true-diversity unit offers two independent receivers for increased reliability and better reception at longer distances. The R1 nondiversity receiver produces clean, reliable reception at shorter distances.

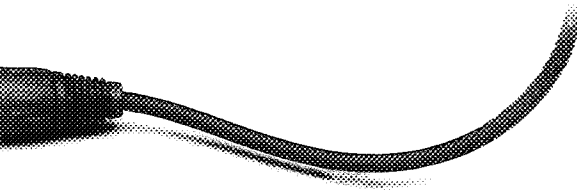


*Adjustable output level control.*



*R2 true-diversity receiver and R1 nondiversity receiver.*

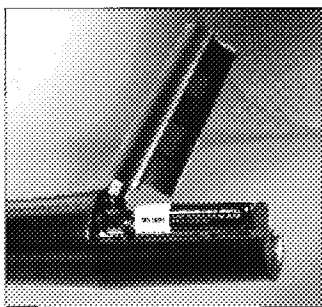
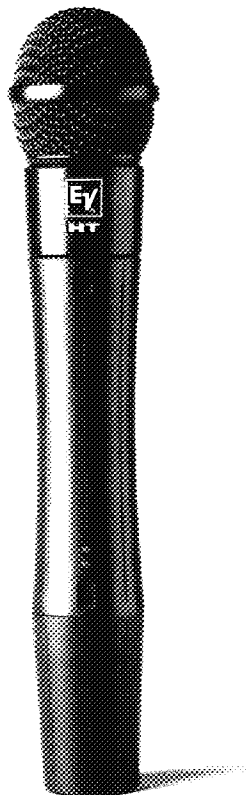
# e Unplugged!™



## Systems from the one Technology.

### R-Series™ Handheld Transmitters

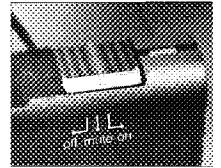
Combining the classic style of the acclaimed MS-Series handheld and the power of N/DYM® technology, the R-Series™ handheld transmitter features a rugged, ergonomically contoured ABS handle that is both light-weight and durable. Plus, the specially designed N/D157B mic element delivers clear, smooth response which is highly resistant to feedback. For low-noise operation, an adjustable level control allows microphone sensitivity to be tailored for each user or audio source. Separate ON/OFF and AUDIO MUTE switches eliminate the “popping” heard in many single-switch transmitters.



Hinged battery cover for quick, trouble-free battery replacement.

### ■ R-Series™ Bodypack Transmitters

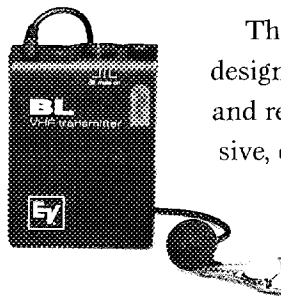
R-Series™ wireless systems offer bodypack transmitters to fit virtually any application. Each bodypack features an oversized, three-position ON/OFF/MUTE switch for quick, simple control without “popping”. A two-color LED indicator communicates ON/OFF status and battery condition.



Oversized switch makes status change quick and easy.

### ■ BL Lavalier Microphone System

The BL bodypack system was designed specifically for vocal clarity and reliability. It features an unobtrusive, condenser microphone element.



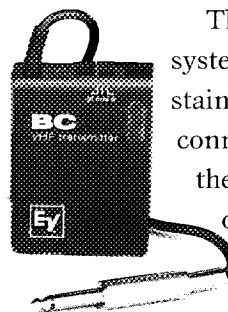
### ■ BF Headset Microphone System

The BF headset system offers the convenience of hands-free operation in a lightweight, comfortable design. An adjustable mini-gooseneck allows for exact placement of the unidirectional condenser microphone.



### ■ BC instrument System

The BC instrument system features a tough, stainless-steel ¼-inch connector for use with the high impedance output of guitars and keyboards.



# R-SERIES™

## WIRELESS MICROPHONE SYSTEM

### R-Series™ System

**Frequency Range**  
(Standard Frequencies):  
169 to 172 MHz and 174 to 216 MHz

**Emission/Modulation:**  
Direct FM, crystal-controlled, 25-kHz  
deviation, 8CF3

**Frequency Response:**  
70 Hz to 11 kHz, ± 1.5 dB,  
50 Hz to 14 kHz, ± 3 dB

**Harmonic Distortion:**  
0.9% max., below transmitter limiting;  
0.4% typical at 1 kHz

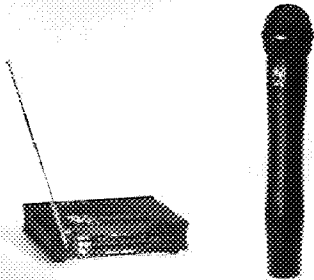
**Dynamic Range:**  
100 dB

**Ultimate S/N**  
(processed, 20-kHz bandwidth):  
100 dB (flat) min. (102 dB typical  
A-weighted)

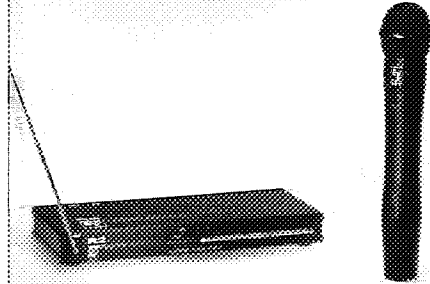
**Audio Processor:**  
2:1 logarithmic compressor and expander

**Operating Temperature:**  
-20 °C to +50 °C (-4 °F to 122 °F)

RH1 Nondiversity Handheld System



RH2 True-Diversity Handheld System



### R1 and R2 Receivers

**Receiver Type:**  
Single-frequency, single-conversion,  
superheterodyne FM

**FM Image Rejection:**  
70 dB, typical

**Sensitivity:**  
3 µV for 50 dB S/N (processed),  
20-kHz bandwidth

**Ultimate Quieting (S/N):**  
100 dB (20 kHz flat); 102 dB A-weighted

**Audio Output:**  
+8 to -18 dBm (at full deviation),  
+10 dBm (minimum at clipping)

**IF Selectivity:**  
200 kHz, 7-pole monolithic ceramic  
and LC filters

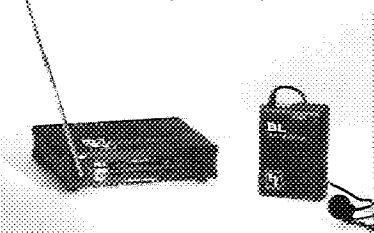
**Squelch Quieting:**  
> 100 dB (referenced to 30 kHz deviation)

**rf Selectivity:**  
Approximately 7 MHz, 3-pole LC filter

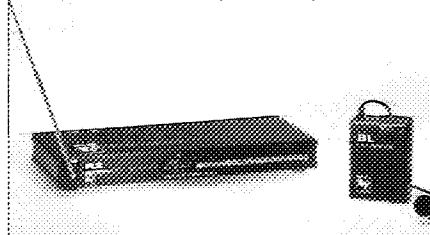
**Adjustments and Controls:**  
Output level adjust

**Indicators:**  
R2: diversity rf signal detect A/B LEDs,  
power on/off LED  
R1: power/transmit LED

RL1 Nondiversity Lavalier System



RL2 True-Diversity Lavalier System



### HT Handheld Transmitter

**Mic Element:**  
Electro-Voice N'D157B N'DYM cardioid

**Frequency Stability:**  
± 0.005%

**Spurious Output:**  
-45 dB minimum, -55 typical

**Controls:**  
Power on/off, audio on/off,  
level adjust

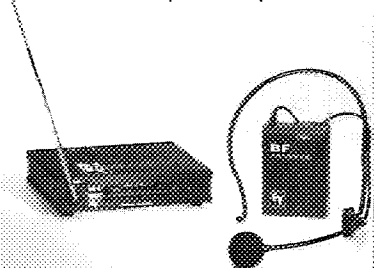
**Audio Adjustment Range:**  
30 dB

**Battery Life:**  
8-10 hours  
with one 9-V alkaline

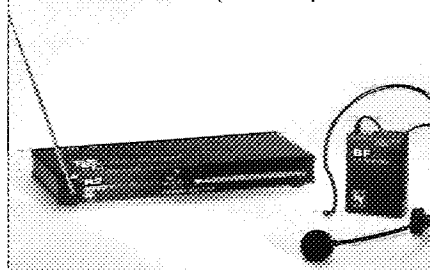
**Length:**  
27.3 cm (10.75 in.)

**Net Weight:**  
284 g (10 oz) with battery

RF1 Nondiversity Headset System



RF2 True-Diversity Headset System



### BL, BC and BF Bodypack Transmitters

**Microphone Element:**  
BL: permanently attached  
omnidirectional lavalier electret;  
BF: unidirectional headset microphone  
with adjustable mini-gooseneck;  
BC: 1/4-inch connector

**Frequency Stability:**  
± 0.005%

**Spurious Output:**  
-45 dB minimum, -55 dB typical

**Adjustments and Controls:**  
Power on/mute/off, audio standby/transmit  
LED indicators, mic-level adjust

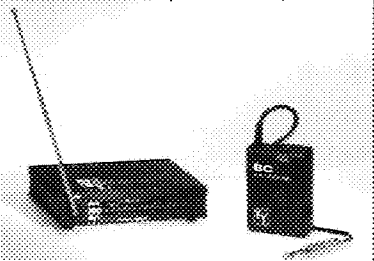
**Audio Adjustment Range:**  
30 dB

**Battery Life:**  
8-10 hours with one 9-V alkaline

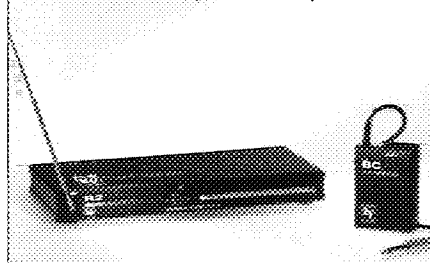
**Dimensions:**  
2.6 cm x 6.4 cm x 10.2 cm  
(1.0 in. x 2.5 in. x 4 in.)

**Net Weight:**  
156 g (5.5 oz) with battery

BC1 Nondiversity Instrument System



BC2 True-Diversity Instrument System



**Electro-Voice®**

600 Cecil Street, Buchanan, Michigan 49107 Phone (616) 695-6831, (800) 234-6831  
 Mark IV Audio Canada, Inc., 345 Herbert St., Gananoque, Ontario, Canada K7G 2V1, Phone (613) 382-2141  
 Mark IV Audio, A.G., Kellenstrasse 5, CH-2563 IPSACH, Switzerland, Phone (011) 41/32-51-6833  
 Mark IV Audio Japan Ltd., 2-5-60 Izumi, Suginami-ku, Tokyo, Japan 168, Phone (011) 81/3-3325-7900  
 Mark IV Audio (Aust.) Pty. Ltd., Unit 24, Block C, Slough Business Park, Slough Ave., Silverwater, N.S.W. 2141, Australia, Phone (011) 61/2-648-3455  
 Mark IV Audio Hong Kong, Unit E & F, 21/F., Luk Hop Industrial Bldg., 8 Luk Hop St., San Po Kong, Kowloon, Hong Kong, Phone (011) 852-351-3628

Electro-Voice Wireless Systems are guaranteed against malfunction due to defects in materials or workmanship for a period of one (1) year from the date of original purchase. The Limited Warranty does not extend to cables or cable connectors. Additional details are included in the Uniform Limited Warranty Statement.