

R300



Electro-Voice

- ClearScan finds the clearest channel available with the touch of one (1) button
- EZsync infrared channel transfer from the receiver to the transmitter for easy and error-free setup
- 32 preset channels, with compatible groups of eight (8) channels for simultaneous use
- 14 hour battery life from two (2) AA alkaline batteries
- Rugged metal transmitters with backlit LCD display and battery gauge



The Electro-Voice R300 opens a new category of wireless microphone in today's market; Entry Level Professional. With one-touch ClearScan and EZ sync transmitter update the R300 is as easy to setup and use as any entry level wireless microphone. But the R300 also a true rack mountable metal receiver, metal body pack and handheld transmitters, and remote mountable antennas normally found in higher priced professional systems.

With the touch of one button ClearScan scans through all 32 preset channels and selects the clearest channel. Having the clearest channel ensures noise free operation with the longest operating range. ClearScan gives you confidence In an increasingly difficult RF world.

Matching the transmitter frequency to the receiver also requires just the touch of a button. EZsync uses infrared technology to set the transmitter to the correct frequency and confirms operation in one automatic step. EZsync ensures error free setup. BP-300 is an all new metal bodypack transmitter that is rugged, compact, and easy to use. Using two AA batteries for 14 hours of use, the BP-300 is one of the most economical transmitters around for applications that require daily operation. The mute function keeps the RF signal live while it mutes the audio to protect your channel and prevent noise in the audio system. The TA4 connector allows the use of any EV lapel or headworn microphone for a variety of applications. The HT-300 metal handheld transmitter is made to withstand the rigors of daily use but still be comfortable in your hand. The PL22 dynamic

microphone is the perfect all-around microphone for speaking engagements, singing and emcees. The cardioid pick up pattern rejects noise from the surroundings, helps to control audio feedback, and still allows an experienced vocalist to work the microphone.

The receiver for the R300 system is equally at home on a table top or in a 19 inch equipment rack. Rack mount kits and front mount antenna cables are available for the R300 for a professional installation.

Technical specifications

R300 Receiver Specifications:

Receiver Type:	Synthesized PLL
Frequency Range (RF):	A Band 618 – 634 MHz B Band 678 – 694 MHz C Band 516 – 532 MHz E Band 850 – 865 MHz
Number of Channels:	32
Modulation:	± 40 kHz
Diversity:	True Antenna
RF Sensitivity:	<1.0 µV for 12 dB SINAD
Image Rejection:	> 55 dB
Squelch:	Tone Code plus Amplitude
Power Requirements:	12–16 VDC, 500mA max

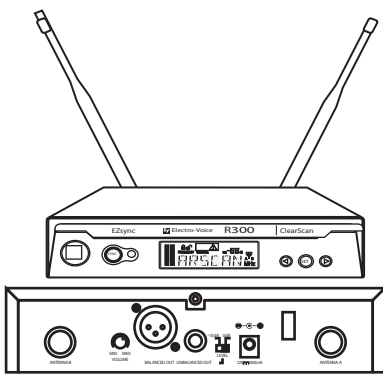
Operating Temperature:	5°C to 45°C (41°F to 113°F)
Dimensions:	43 mm H x 206 mm W x 210 mm D (1.72 in H x 7.8 in W x 8.0 in D)
Audio Parameters	
Frequency Response:	80 Hz – 18 kHz ± 2 dB
Balanced Output:	20 dBV (max @ 40 kHz deviation)
Unbalanced Output:	Adjustable 8 mV to 0.755V RMS
Distortion:	< 1.0%, 0.4% typical (ref 1 kHz, 40 kHz deviation)
Signal-to-Noise Ratio:	> 100 dB A-Weighted
Dynamic Range:	> 95 dB

BP-300 and HT-300 Transmitter Specifications:

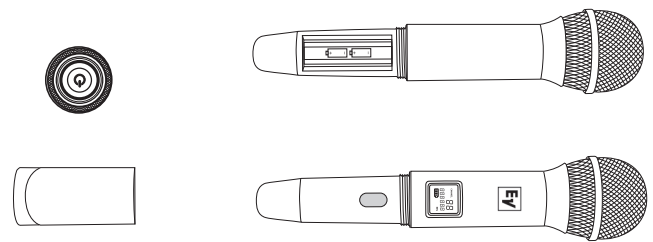
Radiated Output:	8 mW typical
Back Lit LCD Display:	Channel, Frequency, Mute, and Battery Level
Microphone Head:	Electro-Voice PL22 Cardioid Dynamic
Standard Lavalier Microphone:	Electro-Voice ULM18 Uni-Directional Condenser
TA4F Connector Wiring:	Pin 1: Ground; Pin 2: Mic Input; Pin 3: +5V bias; Pin 4: +5V thru 2.2k Ω
Power Requirement:	Two AA batteries
Battery Life (Typical):	> 14 hours with AA alkaline typical
Bodypack Antenna:	Flexible external 1/4 wave
Handheld Antenna:	Internal proprietary
Dimensions (Bodypack):	84 mm H x 66 mm W x 23 mm D (3.3 in H x 2.6 in W x 0.89 in D)
Dimensions (Handheld):	26.7 cm (10.57 in) Long

System overview

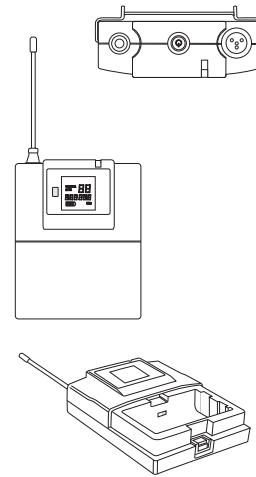
R300 Receiver:



HT-300 Microphone:



BP-300 Transmitter:



Certifications (depending on frequency selected and country of operation):

R300 receiver, HT-300 and BP-300 transmitters: Certified to ETSI EN 300 422-2 and ETSI EN 301 489-3, Conforms to European Union directives, eligible to bear CE marking as per the R&TTE directive. R300 receiver: Certified for use in Canada under RSS 210 Issue 5. HT-300 and BP-300 transmitters: Certified for use in Canada under RSS 123 Issue 1. R300 receiver: Authorized under U.S. Federal Communications Commission Part 15. HT-300 and BP-300 transmitters: Certified under U.S. Federal Communications Commission Part 74. Licensing of this equipment is the user’s responsibility and is determined by the user’s classification, the user’s application, and frequency selected. The user should contact the appropriate telecommunications authority for any desired clarification. Any changes or modifications made to the aforementioned equipment, by the user, could void the user’s authority to operate the equipment.

FCC Consumer Alerts:

Most United States users do not need a license to operate this wireless microphone system. Nevertheless, operating this microphone system without a license is subject to certain restrictions: the system may not cause harmful interference; it must operate at a low power level (not in excess of 50 milliwatts); and it has no protection from interference received from any other device. Purchasers should also be aware that the FCC is currently evaluating use

of wireless microphone systems, and these rules are subject to change. For more information, call the FCC at 1-888-CALL-FCC (TTY: 1-888-TELL-FCC) or visit the FCC's wireless microphone website at www.fcc.gov/cgb/wirelessmicrophones.

Ordering information

BP-300-A

R300 A Band bodypack transmitter (618 - 634 MHz)
Order number **BP-300-A**

BP-300-B

R300 B Band bodypack transmitter (678 - 694 MHz)
Order number **BP-300-B**

BP-300-C

R300 C Band bodypack transmitter (516 - 532 MHz)
Order number **BP-300-C**

BP-300-E

R300 E Band bodypack transmitter (850 - 865 MHz)
Order number **BP-300-E**

HT-300-A

R300 A Band handheld transmitter (618 - 634 MHz)
Order number **HT-300-A**

HT-300-B

R300 B Band handheld transmitter (678 - 694 MHz)
Order number **HT-300-B**

HT-300-C

R300 C Band handheld transmitter (516 - 532 MHz)
Order number **HT-300-C**

HT-300-E

R300 E Band handheld transmitter (850 - 865 MHz)
Order number **HT-300-E**

R300-RX-A

R300 A Band receiver (618 – 634 MHz)
Order number **R300-RX-A**

R300-RX-A-EURO

R300 Receiver EU/UK Plug A-Band (618 – 634 MHz)
Order number **R300-RX-A-EURO**

R300-RX-B

R300 B Band receiver (678 – 694 MHz)
Order number **R300-RX-B**

R300-RX-B-EURO

R300 Receiver EU/UK Plug B-Band (678 – 694 MHz)
Order number **R300-RX-B-EURO**

R300-RX-C

R300 receiver only in case (516 – 532 MHz)
Order number **R300-RX-C**

R300-RX-C-EURO

R300 receiver only in case (516 – 532 MHz) EU/UK
Order number **R300-RX-C-EURO**

R300-RX-E-EURO

R300 Receiver EU/UK Plug E-Band (850 – 865 MHz)
Order number **R300-RX-E-EURO**

Accessories

379-1

Windscreen pop filter for RE16, RE50, N/D967, 767a, 367s, 267a, RE410 and RE510, black
Order number **379-1**

APD4

4-ch Active Antenna Splitter and Power Distribution, 19 inch 1U, incl. Cabling, 600-780 MHz (A and B Band only)
Order number **APD4+**

APD4+Euro

4-ch Active Antenna Splitter and Power Distribution, 19 inch 1U, incl. Cabling, 780-900 MHz (A, B and E Band only)
Order number **APD4+-EURO**

BC-300

Belt clip for the BP-300
Order number **BC-300**

CRA-A

1/2 Wave Receiver Antenna A-Band R300 (red)
Order number **CRA-A**

CRA-B

1/2 Wave Receiver Antenna B-Band R300 (blue)
Order number **CRA-B**

CRA-C

1/2 Wave Receiver Antenna C Band R300 (yellow)
Order number **CRA-C**

CRA-E

1/2 Wave Receiver Antenna E-Band R300 (green)
Order number **CRA-E**

HM3

Headworn microphone omnidirectional condenser for R300 wireless systems
Order number **HM3**

R300GTRCBL

Optional instrument cable for BP-300 bodypack transmitter
Order number **R300GTRCBL**

RCC-PL22

PL22 Head for R300
Order number **RCC-PL22**

RM-300

R300 Single Receiver Rack Mount Kit
Order number **RM-300**

RMD-300

R300 Double Rack Mount Kit
Order number **RMD-300**

SFMC-300

2 TNC cables for antenna front mounting of a single R300 receiver

Order number **SFMC-300**

TP-2

TP-2 Termination plug for any open output

Order number **650095@PI**

ULM18

Lavalier microphone, cardioid condenser for R300 wireless systems

Order number **ULM18**

WS-18

Foam windscreen for ULM-18 lapel mic

Order number **WS-18**

WS-H3

Windscreen for HM3

Order number **WS-H3**

Represented by:

Germany:

Bosch Sicherheitssysteme GmbH
Robert-Bosch-Ring 5
85630 Grasbrunn
Germany

Bosch Security Systems, Inc.
12000 Portland Avenue South
Burnsville MN 55337
USA

www.electrovoice.com