RE3-RX RE3 Diversity Receiver



- Diversity reception minimizes dropouts
- Up to 36 MHz tuning bandwidth (band specific) for trouble-free operation
- Easy-to-read LCD display
- Frequency scanning for selecting open frequencies
- Sync function links transmitter to receiver for easy setup

The RE3-RX is a professional rack-mountable, ½ space diversity receiver. Designed to function as the control center for an RE3 wireless set, it features frequency scanning and synchronizing, as well as full transmitter control settings which synchronize to a mated transmitter.

The diversity reception technology minimizes the chances of signal dropouts by providing two separate antenna locations which are electronically chosen moment-by-moment based on signal strength and stability. The wide tuning bandwidth provides access to a wide range of frequencies, selectable in 25kHz steps for trouble-free operation of single and multi-channel systems. The easy-to-read LCD display provides vivid viewing of all menus and operating parameters. The easy-to-use frequency scanning function simplifies locating and tuning to a clear operating frequency. The sync function wirelessly synchronizes all operating parameters to the mated transmitter.

Technical specifications

Frequency oscillation mode:	Phase-locked loop (PLL)
Carrier frequency range:	470 - 865 MHz (tuning bandwidth is band dependent)
Band names, tuning bandwidths, and carrier frequency ranges:	5L: 36 MHz (488-524 MHz) 5H: 36 MHz (560-596 MHz) 6M: 10 MHz (653-663 MHz) 8M: (823-865 MHz)*



	T: 3 MHz (803-806 MHz) *8M is split into two segments: 823-832MHz: 9MHz 863-865MHz: 2MHz
Sync frequency:	Ultrasonic 40 kHz
Diversity:	Antenna diversity
Bandwidth:	36MHz
Signal/Noise ratio:	>100dB(A)
Total harmonic distortion (Thd):	<0.6%@1kHz
Receiving sensitivity:	-81dBm for -12dB SINAD
Frequency response:	63Hz~16kHz±2dB (BPT) 51Hz~16kHz±2dB (HHT)
Antenna type:	Detachable ½ wave with BNC connector
Antenna booster power:	DC12 - 15V/100mA
Function display by:	LCD
Contents of display:	Group, channel, frequency, antenna A/B, transmitter battery level, transmitter status (mute, live, or no sync), output level attenuation, AF indication, RF indication, key lock indicator.

Control functions:	Power, scan, frequency, group, channel, squelch, TX sensitivity, TX attenuation, TX RF power, TX auto off, TX key lock, TX display info, TX sync configuration, RX output volume, RX output level, RX antenna booster power, RX key lock, RX display contrast, RX display brightness, RX system reset.
Sync data options:	Frequency, group, channel, sensitivity level, attenuation status, RF power, auto off status, key lock status, transmitter display (freq or Gp/Ch)
Audio frequency output level:	Ref : ±22.5kHz Dev@1kHz Tone ¼" (6.3mm) Phone Jack : -10dBV XLR Jack : -4dBV(Line)、-24dBV(MIC)
Audio frequency output impedance:	240Ω (unbalanced) 1400Ω (balanced)
Squelch and noise muting:	Noise muting and tone code locking
Output ports:	1 x balanced XLRM jack 1 x unbalanced ¼" TS (6.3mm) jack
Power supply:	DC12~15V/500mA
Finish:	Black polyurethane paint
Dimensions:	Width: 8.27 in. (210mm) Height: (with feet attached) 1.85 in. (47mm) Height: (without feet attached) 1.73 in. (44mm) Depth: (including antenna jack) 6.89 in. (175mm) Depth: (not including antenna jack) 6.1 in. (155mm)
Net weight:	2.71 lb (1.23 kg)
Gross weight:	3.28 lb (1.49 kg)

Dimensions:



For full operational information, download the RE3 installation manual at www.electrovoice.com.

Licensing and certification declarations:

/	
	FCC Supplier's Declaration of Conformity 47 CFR, Section 2.1077 Compliance Information
Produ	ct Identifier:
RE3 W	o-Voice: /ireless Receiver, AASP Active Antenna Splitter, ALPA Active Log dic Antenna, RFAMP Antenna Booster, BC2 Battery Charger
Respo	onsible Party – U.S. Contact Information
130 Pe Fairpo USA	Security Systems, Inc. erinton Parkway ort, NY 14450 1 (585) 223-4060
This de to the harmf	ompliance Statement evice complies with Part 15 of the FCC Rules. Operation is subject following two conditions: (1) This device may not be cause iul interference, and (2) this device must accept any interference ed, including interference that may cause undesired operation.

IC: This Class B digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada. This device complies with Industry Canada licenseexempt RSS standard(s). Operation is subject to the following two conditions:

(1) This device may not cause interference, and(2) This device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

(1) l'appareil ne doit pas produire de brouillage, et
(2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement. **CE and EU:** The CE Declaration of Conformity can be obtained and downloaded from:

www.electrovoice.com

This Equipment is in compliance with CE requirements and the following directives:

- 2011/65/EU RoHS Directive
- 2012/19/EU WEEE Directive
- 2014/53/EU RED Directive

AU and NZ: This device is in compliance with Cispr32.

Replacement parts

Order number	Description
ESP-EF01U362330	RE3 rubber feet, skid pads and screws
ESP-EF01U362333	RE3 antenna, 5L band, 480-524MHz
ESP-EF01U362334	RE3 antenna, 5H band, 560-596MHz
ESP-EF01U362335	RE3 antenna, 6M band, 653-663MHz
ESP-EF01U362336	RE3 antenna, 8M band, 823-865MHz
ESP-EF01U362337	RE3 antenna, T band, 803-806MHz
ESP-EF01U362338	RE3 receiver power supply with AC clips

Compatible products

Order number	Description
RE3-HHT76-5L	Handheld transmitter with ND76 head, 488-524MHz
RE3-HHT86-5L	Handheld transmitter with ND86 head, 488-524MHz
RE3-HHT96-5L	Handheld transmitter with ND96 head, 488-524MHz
RE3-HHT420-5L	Handheld transmitter with RE420 head, 488-524MHz
RE3-HHT520-5L	Handheld transmitter with RE520 head, 488-524MHz
RE3-BPT-5L	Bodypack transmitter 488-524MHz
RE3-BPT-5H	Bodypack transmitter 560-596MHz
RE3-BPT-6M	Bodypack transmitter 653-663MHz
RE3-BPT-8M	Bodypack transmitter 823-865MHz
RE3-BPT-T	Bodypack transmitter 803-806MHz
RE3-ACC-RMK1	Rack mount kit for single RE3 receiver
RE3-ACC-RMK2	Rack mount kit for two RE3 receivers

RE3-RX-5H RE3 half rack space receiver 560-596MHz RE3 wireless diversity receiver, 5H band, 560-596MHz, black Order number RE3-RX-5H RE3-RX-6M RE3 half rack space receiver 653-663MHz RE3 wireless diversity receiver, 6M band, 653-663MHz, black Order number RE3-RX-6M RE3-RX-8M RE3 half rack space receiver 823-865MHz RE3 wireless diversity receiver, 8M band, 823-865MHz, black Order number RE3-RX-8M RE3-RX-T RE3 half rack space receiver 803-806MHz RE3 wireless diversity receiver, T band, 803-806MHz, black Order number RE3-RX-T Accessories **RE3-ACC-BC2** Two slot battery charger Two slot battery charger for RE3-BPT and RE3-HHT transmitters, black

Order number RE3-ACC-BC2

Ordering information

RE3-RX-5L RE3 half rack space receiver 488-524MHz

RE3 wireless diversity receiver, 5L band, 488-524MHz, black

Order number RE3-RX-5L

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Represented by:

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

www.electrovoice.com

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

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RE3-BPT RE3 Bodypack Transmitter



- Robust metal body
- Up to 36 MHz tuning bandwidth (band specific)
- Selectable low and high output power (band specific)
- Unique magnetic latch and lock for easy access to batteries
- Sync function for easy frequency setup

The RE3-BPT is a small, lightweight yet robust UHF bodypack transmitter. It is easily worn and concealed, making it an ideal form factor for a wide variety of professional presentation and performance applications. From stand-up presentations, to theatrical and musical performances, to high-energy fitness and athletic situations, this sleek and rugged transmitter fits comfortably and accepts a wide variety of input devices.

The all-metal body is robust and durable, and operates on 2 AA alkaline or rechargeable NiMH cells. The tuning bandwidth affords generous frequency tuning options helping to avoid various sources of possible interference. The selectable output power (band specific) assists in overcoming the challenges of both long, or short, transmission ranges. The unique magnetic sliding latch and lock mechanism keeps the battery door closed securely and makes opening to access the batteries effortless. The ultrasonic sync function makes for a simple system setup by syncing the transmitter to the receiver frequency tuning and other functional data. Recharging contacts provide for functional use with the optional BC2 charging station allowing the NiMH rechargeable cells within two bodypack transmitters to be charged without removal.



Technical specifications

Frequency oscillation mode:	Phase-locked loop (PLL)
Available band names, tuning bandwidths, and carrier frequency ranges:	5L: 36 MHz (488-524 MHz) 5H: 36 MHz (560-596 MHz) 6M: 10 MHz (653-663 MHz) 8M: (823-865 MHz)* T: 3 MHz (803-806 MHz) *8M is split into two segments: 823-832MHz: 9MHz 863-865MHz: 2MHz
Sync frequency:	Ultrasonic
RF power output:	Frequency band specific: 5L (488-524MHz): Low 10mW / High 50mW 5H (560-596MHz): Low 10mW / High 50mW 6M (653-663MHz): Low 10mW / High 20mW 8M (823-865MHz) 10mW T (803-806MHz): Low 10mW / High 50mW
Display by:	LCD + LED
Function controls:	Power, mute, group, channel, frequency, sensitivity adjustment, input level attenuation, RF power, auto off, key lock.

RF stability:	<±10kHz@Fc
Modulation frequency shift:	Wideband FM ±48kHz deviation
Harmonic radiation:	<-50dBc
Input jack:	4-pin mini jack
Battery:	2 x AA alkaline battery or NiMH rechargeable battery
Charging contacts:	Yes
Finish:	Black polyurethane paint
Dimensions (without antenna):	Height: 3.2 in. (81.5mm) Width: 2.54 in. (64.5mm) Depth: 0.98 in. (25mm)
Net weight:	6.14 oz. (0.174 kg)
Gross weight:	8.29 oz. (0.235 kg)

Dimensions:



For full operational information, download the RE3 installation manual at www.electrovoice.com.

Licensing and certification declarations:

FCC information:

Certified under FCC Part 74. FCC IDs: B5DB1245L and B5DB1245H Certified under FCC Part 15 and FCC Part 74. FCC IDs: B5DB1246M

Notice!



Use of frequencies beginning at 653.000 MHz up to 657.000 MHz is covered under FCC Part 74 ID number B5DB1246M and requires an LPAS user license, however use of frequencies between 657.025 up to 663.000 MHz is covered under FCC Part 15, and do not require an additional user license. For more information, see https://www.fcc.gov/ consumers/guides/operation-wireless-microphones.

Responsible Party - U.S. Contact Information Bosch Security Systems, Inc.

130 Perinton Parkway Fairport, NY 14450 USA Tel: +1 (585) 223-4060

Notice!

Changes or modifications made by the user could void the user's authority to operate the equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that many cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radi-

ate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-Reorient or relocate the receiving antenna.

-Increase the separation between the equipment and receiver.

-Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

IC (Industry Canada)

Certified in Canada by IC under RSS-102, RSS-210, and RSS-Gen

IC: 1321A-RE3BPT488, 1321A-RE3BPT560, and 1321A-RE3BPT653

This Class B digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

This device complies with Industry Canada licenseexempt RSS standard(s). Operation is subject to the following two conditions:

(1) This device may not cause interference, and(2) This device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

(1) l'appareil ne doit pas produire de brouillage, et
(2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Notice!

Regarding RE3-BPT-6M (653-663 MHz); the use of frequencies between 653.025 up to 663.000 MHz, please check Canada's ISED (Innovation, Science and Economic Development) website for the current information of the license status of this band.

EU (European Union)

The CE Declaration of Conformity can be obtained and downloaded from: www.electrovoice.com This Equipment is in compliance with CE requirements and the following directives:

- 2011/65/EU RoHS Directive
- 2012/19/EU WEEE Directive
- 2014/53/EU RED Directive

Regarding (applies to) handheld transmitter RE3-HHT-5L (480-524 MHz), RE3-HHT-5H (560-596 MHz), RE3-HHT-6M (653-663 MHz), RE3-HHT-8M (823-865 MHz), and bodypack transmitter RE3-BPT-5L (480-524 MHz), RE3-BPT-5H (560-596 MHz), RE3-BPT-6M (653-663 MHz), and RE3-BPT-8M (823-865 MHz): This equipment is intended for use in wireless microphone applications.

Some countries in the EEA (European Economic Area) have restrictions placed on this equipment. If an EEA country is not listed it did not have any restrictions of the product at the time this document was published. The country codes used in regard to these restrictions are the following:

Austria (AT), Belgium (BE), Cyprus (CY), Denmark (DK), Germany (DE), Greece (EL), Spain (ES), Ireland (IE), Iceland (IS), Latvia (LV), Lithuania (LT), Malta (MT), Norway (NO), Slovakia (SK), Sweden (SE) and United Kingdom (UK).

Listed below are these restrictions:

• Transmitters in the ranges, 488 - 524 MHz, 560 - 596 MHz, and 653 - 663 MHz require a license in the following countries: AT, BE, CY, DE, IE, LV, LT, SK, SE, UK.

- Transmitters in the ranges, 488 524 MHz, 560 596 MHz, and 653 663 MHz require the transmitter be used in TV white spaces in the following countries: AT, DK, IS, MT, NO, ES.
- Transmitters in the ranges, 488 524 MHz, 560 596 MHz, and 653 663 MHz if used outdoor will have geographical restrictions of operation in the United Kingdom (UK).
- Transmitters in the range, 823 865, require a license for use in the 823 - 832 MHz range in the following countries: AT, BE, CY, EL, IE, LV, LT, UK.
- Transmitters in the range, 488 524 MHz may only use the range 510 524 MHz in Norway (NO).

Notice!

TV white spaces are gaps between operating

TV broadcast stations where there are no active TV broadcasts.

Always consult your national authority before placing equipment into operation as requirements and spectrum usage can change.

AU and NZ

This device operates under an ACMA class license and must comply with all the terms of that license including operating frequencies.

Licensing information

Licensing: A ministerial license to operate this equipment may be required in certain areas. Consult your national authority for possible requirements. Changes or modifications not expressly approved by Electro-Voice could void your authority to operate the equipment. Licensing of Electro-Voice wireless microphone equipment is the user's responsibility, and licensability depends on the user's classification and application, and upon the selected frequencies on which it will operate. Electro-Voice advises the user to contact the appropriate telecommunications authority concerning proper licensing, and before selecting and ordering frequency bands.

Notices

Battery precautions

- Keep batteries out of the reach of children.
- Observe and install batteries according to the correct polarity as marked on the battery and the transmitter battery compartment.
- Do not expose the battery to excessive heat such as sunshine, fire, or other sources of high heat.
- Always consider the environment issues and follow local regulations when disposing of batteries.
- Remove depleted battery immediately.
- Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.
- Use only disposable LR6 (AA) alkaline or NiMH batteries.
- Do not mix new batteries with old ones in the transmitter at the same time.
- Do not use different battery types or models.

- Do not use a leaking battery. If battery leakage occurs, avoid contact with skin. If contact occurs, immediately wash thoroughly with soap and water.
- If battery leakage comes into contact with your eyes, immediately flush with water and seek medical attention.
- Remove and safely store batteries away from the transmitter when the transmitter will not be used for 60 or more days.

Replacement parts

Order number	Description
ESP-EF01U362342	RE3-BPT belt clip
ESP-EF01U362343	RE3-BPT door assembly
ESP-EF01U362344	RE3-BPT display window

Compatible products

Order number	Description
RE3-ACC-OL3	Omnidirectional lavalier mic with 4-pin mini plug
RE3-ACC-CL3	Cardioid lavalier mic with 4-pin mini plug
RE3-ACC-HW3	Headworn mic with 4-pin mini plug
RE3-ACC-GC3	Instrument cable; 1/4" to 4-pin mini plug
OLM10	Omnidirectional lavalier condenser mic with 4-pin mini plug
ULM18	Uni-directional lapel mic
ULM21	Cardioid lavalier condenser mic with 4-pin mini plug
RE92TX	Premium cardioid lapel microphone with 4- pin mini plug
RE97LTX-BEIGE	Miniature omnidirectional lapel microphone with 4-pin mini plug, beige
RE97LTX-BLACK	Miniature omnidirectional lapel microphone with 4-pin mini plug, black
RE920TX	Premium cardioid instrument mic with a custom shock mounting clip and 4-pin mini plug
RE97TX-BEIGE	Omnidirectional low profile headworn microphone in light beige color with 4-pin mini plug
RE97TX-BLACK	Omnidirectional low profile headworn microphone in black color with 4-pin mini plug
RE97-2TX-BEIGE	Omnidirectional low profile, double ear headworn microphone with 4-pin mini plug
HM2	Headworn cardioid condenser vocal mic with 4-pin mini plug
НМЗ	Omnidirectional headworn mic

Order number	Description
HM7	Headworn cardioid condenser vocal mic with 4-pin mini plug
WPHS-746	Headworn condenser vocal mic with 4-pin mini plug. Waterproofing material covers mic and headband
PH-21	Headworn, cardioid condenser mic with 4- pin mini plug
WLM-50	Omni-directional electret lapel mic with 4- pin mini plug
MAC-G3	Guitar cord featuring George L's cable with 4-pin mini plug

Ordering information

RE3-BPT-5L Bodypack transmitter 488-524MHz

RE3 wireless bodypack transmitter, 5L band, 488-524 MHz, black

Order number RE3-BPT-5L

RE3-BPT-5H Bodypack transmitter 560-596MHz

RE3 wireless bodypack transmitter, 5H band, 560-596 MHz, black

Order number RE3-BPT-5H

RE3-BPT-6M Bodypack transmitter 653-663MHzRE3 wireless bodypack transmitter, 6M band, 653-663MHz, blackOrder number RE3-BPT-6MRE3-BPT-8M Bodypack transmitter 823-865MHzRE3 wireless bodypack transmitter, 8M band, 823-865MHz, blackOrder number RE3-BPT-8MRE3-BPT-T Bodypack transmitter 803-806MHz

RE3 wireless bodypack transmitter, T band, 803-806 MHz, black Order number **RE3-BPT-T**

Accessories

RE3-ACC-BC2 Two slot battery charger Two slot battery charger for RE3-BPT and RE3-HHT transmitters, black Order number **RE3-ACC-BC2**

Represented by:

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

www.electrovoice.com

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

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Electro-Voice | RE3-ACC-CL3 Cardioid lavalier mic with TA4F

RE3-ACC-CL3 Cardioid lavalier mic with TA4F

- Ideal for general sound reinforcement and presentations
- Cardioid polar pattern rejects ambient sounds and increases gain before feedback
- Delivers full and accurate sound
- · Wide dynamic range and frequency response
- Clothing clip holds microphone securely and attaches easily to garments

The CL3 is a robust, general-purpose lavalier microphone. It is ideal for presentation and public speaking where its full and accurate sonic characteristics, coupled with its feedback-rejecting cardioid polar pattern deliver a clear and intelligible voice. The cardioid pattern provides acoustic isolation and gain before feedback in situations where the ambient sound reinforcement system volume might cause an omnidirectional lavalier to feed back. The small clothing clip attaches the microphone securely to clothing items or surfaces. The included foam windscreen is effective in reducing wind noise. The 4pin mini plug is compatible with all current Electro-Voice bodypack transmitters, as well as many other brands who use the 4-pin mini connector convention.

Technical specifications

Self-biased condenser
100 Hz - 15 kHz
Cardioid
20 mV/Pascal (-34 dBV/PA)
115 dB SPL
3700 ohms



grille, black flexible PVC cable



Electro-Voice

Dimensions:



Frequency response:



Polar response:







180

16000 Hz - - - -

Represented by:

www.electrovoice.com

Germany:

Bosch Sicherheitssysteme GmbH Robert-Bosch-Ring 5 85630 Grasbrunn Germany Bosch Security Systems, Inc. 12000 Portland Avenue South Burnsville MN 55337 USA

8000 Hz

Installation/configuration notes

For best performance, please follow these instructions:

1. With the RE3-BPT transmitter off, connect the **CL3 4pin mini plug** into the RE3-BPT audio input jack.



- 2. Place the **CL3** four to six inches from the user's mouth attached to a garment using the provided alligator-style clip.
- 3. Power on the transmitter.
- 4. Ensure the transmitter **mute switch** is disengaged.
- 5. Ensure the transmitter's attenuation is set to OFF.
- 6. Adjust the **input sensitivity** so that the highest voice peaks light the RE3-RX receiver's AF meter's yellow LED segment (the sixth LED from the bottom). *Be careful that the transmitter's audio signal level does not cause the receiver's AF meter red LED to light often.*

Replacement parts

Order number	Description
ESP-EF01U362348	CL3 windscreen (2pcs)
ESP-EF01U362349	CL3 lavalier clip

Parts included

Quantity	Component
1	OL3 lavalier microphone
1	Protective zippered pouch
1	Clothing clip
2	Foam windscreens
1	Engineering datasheet
1	Warranty and product documentation information card

Ordering information

RE3-ACC-CL3 Cardioid lavalier mic with TA4F

Cardioid lavalier microphone for RE3-BPT transmitter, black

Order number RE3-ACC-CL3

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