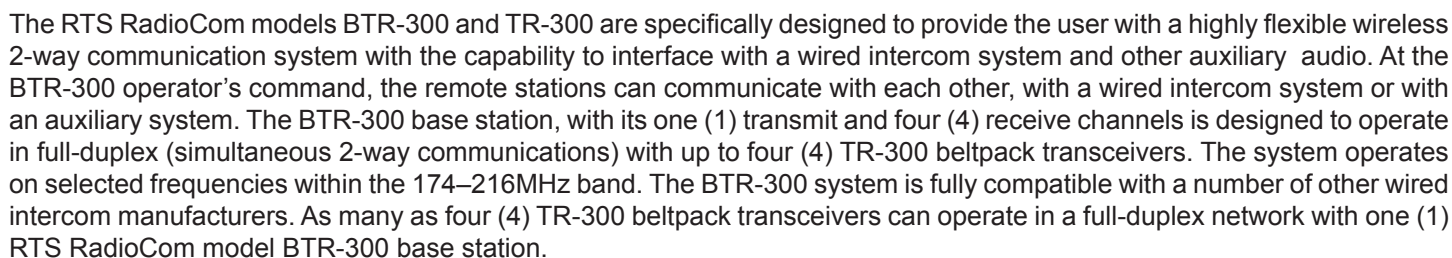


Single Channel VHF Fixed Crystal Wireless Intercom



- Unique audio shaping circuitry and a superior RF design.
- High Q Front end filtering.
- Beltpacks can operate at ranges of up to 1000 feet line of sight.
- Extended battery life.
- In-Pack charging - allows optional NiMH batteries to be recharged without removing them from the beltpack.
- Base station may be powered by any 12V AC/DC 700mA source.
- Full-duplex operation - allows users to talk and listen simultaneously for more natural communications.
- Base station has a metal case for superior shielding.
- Simultaneous operation and support of up to four (4) base stations and 16 beltpacks.
- Push-to-Talk with Lock-to-Talk feature switch on beltpack.
- Table or rack mountable.

Specifications

Overall

RF Frequency Range: 174–216MHz
 RF Frequency Stability: Crystal Controlled, 0.005%

Beltpack Overall

TR-300 Power Requirements: 6 “AA” Cells
 (Alkaline, NEDA, MN 1500)
 Nickel-metal hydride optional
 TR-300 Current Drain: Typical 82mA
 Transmit Antenna: 1/4 wave wire (attached)
 Receive Antenna: 1/4 wave wire (attached)
 Temperature Range: -4°F to 130°F
 (-20°C to 55°C)

Base Station Overall

Input Power (minimum): 12V AC/DC at 360mA
 Transmit Antenna: 5/8 wave (supplied)
 SO239 connector
 Intercom Output: 330mV (Low) or
 1V (Hi) RMS into 300Ω load typical
 (at rated deviation)
 Intercom Input (Gain Minimum): 300 mVrms typical
 (for rated deviation)
 Auxiliary Output: 2Vrms into 600Ω load typical
 (for rated deviation)
 Auxiliary Input (Gain Maximum): 60mVrms typical
 (for rated deviation)
 Local Headset Input: 2mVrms input nominal
 1.5mVrms input at
 compression (Dynamic)
 Local Headset Output: 32mV maximum
 output into 600Ω
 Speaker/Local Monitor
 Output (into 8Ω): 2 Watts (at rated deviation)

Transmit

RF Power Output: 50 mW Typical
 Modulation: FM, 3kHz deviation
 115 micro-seconds Pre-emphasis
 Modulation Limiter: Internal Compressor
 Modulation Frequency Range: 300 to 5000Hz ±2dB
 Radiated Harmonics
 and Spurious Emissions: Complies with FCC Specifications
 FCC: Type Accepted Under Parts 74

Receive

Receiver Type: Dual Conversion Superheterodyne, FM
 RF Sensitivity: Less than 0.6μV for 12dB SINAD
 IF Selectivity: 3dB at 30kHz (Ceramic Filter)
 Image Rejection: 70dB or better
 Squelch Quieting: 90dB
 Squelch Threshold: 3.0μV (Internal)
 Signal-to-Noise Ratio: 90dB
 Audio Output: 32mW into 600Ω (Headset)
 Distortion: Less than 1% at Rated Output

Product Dimensions/Weight

BTR-300: 15.75" W x 1.75" H x 10.5" D
 (40cm x 4.5cm x 27cm)
 6lb (2.73kg)
 TR-300: 4.25" W x 5" H x 2.0" D
 (10.79cm x 12.7cm x 5.08cm)
 13oz (369g) with batteries

Shipping Dimensions/Weight

BTR-300: 14.5" W x 5.50" H x 20.25" D
 (36.8cm x 14cm x 51.4cm)
 10lb 3oz (4.6kg)
 TR-300: 7" W x 3" H x 10" D
 (17.8cm x 7.6cm x 25.4cm)
 1lb (454g)

Order Information

BTR-300 • VHF Wireless Base Station with A4M headset jack
 TR-300 • VHF Wireless Transceiver with A4M headset jack
 TR-300M • VHF Wireless Transceiver in mirror image frequency
 with A4M headset connector

CONSUMER ALERT

Most 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/wireless-microphones.

For ordering information, contact your regional sales representative at:
<http://rtsintercoms.com/us/intercom/contact>

The specification information is preliminary and is subject to change without notification.
 Brand names mentioned are the property of their respective companies.