

## Microphone Wireless Systems



### BostonAudio U3000 PIN

#### SPECIFICATIONS

– Operating Range Under Typical Conditions  
100m (300 ft.) Note: actual range depends on RF signal absorption, reflection, and interference

– Audio Frequency Response (+/- 2 dB)  
Minimum: 45 Hz  
Maximum: 15 kHz  
(Overall system frequency depends on microphone element.)

– Total Harmonic Distortion (ref. +/- 38 kHz deviation, 1 kHz tone) 0.5%, typical

– Dynamic Range  
>100 dB A-weighted

– Operating Temperature Range  
-18°C (0°F) to +57°C (+135°F)  
Note: battery characteristics may limit this range

– Transmitter Audio Polarity  
Positive pressure on microphone diaphragm (or positive voltage applied to tip of WA302 phone plug) produces positive voltage on pin 2 (with respect to pin 3 of low impedance output) and the tip of the high impedance 1/4-inch output.

#### – U-3000 Receiver

Dimensions  
42 mm H x 197 mm W x 134 mm D (1.65 x 7.76 x 5.28 in.)

Weight  
816 g (1 lb. 13 oz.)

Housing  
Galvanized steel

Audio Output Level (ref. +/- 38 kHz deviation with 1 kHz tone) XLR connector (into 600 Ω load): ?13 dBV  
1/4 inch connector (into 3000 Ω load): ?2 dBV

Output Impedance  
XLR connector: 200 Ω  
1/4 inch connector: 1kΩ

XLR output  
Impedance balanced  
Pin 1: Ground (cable shield)  
Pin 2: Audio  
Pin 3: No Audio

Sensitivity  
?105 dBm for 12 dB SINAD, typical

Image Rejection  
>70 dB, typical

Power Requirements  
12?18 Vdc at 150 mA, supplied by external power supply

#### M-3000 Handheld Transmitter

Audio Input Level  
+2 dBV maximum at -10dB position  
-8 dBV maximum at 0dB position

Gain Adjustment Range  
10dB

RF Transmitter Output  
30 mW maximum (dependent on applicable country regulations)

Dimensions  
254 mm x 51 mm dia. (10 x 2 in.)

Weight  
290 grams (10.2 oz.) without batteries

Housing  
Molded PC/ABS handle and battery cup

Power Requirements  
2 ?AA? size alkaline or rechargeable batteries

#### – CT-90 Bodypack Transmitter

Audio Input Level  
-10 dBV maximum at mic gain position  
+10 dBV maximum at 0 dB gain position  
+20 dBV maximum at -10 dB gain position

Gain Adjustment Range  
30dB

Input Impedance  
1 MΩ

RF Transmitter Output  
30 mW maximum (dependent on applicable country regulations)

Dimensions  
108 mm H x 64 mm W x 19 mm D (4.25 x 2.50 x 0.75 in.)

Weight  
81 grams (3 oz.) without batteries

Housing  
Molded ABS case

Power Requirements  
2 ?AA? size alkaline or rechargeable batteries