

Frequency-agile Cardioid Dynamic Handheld UHF Transmitter



Features

- Rugged high impact housing with integral antenna
- 10 compatible user-switchable channels in one of two UHF frequency ranges
- High quality, dynamic cardioid microphone element with integral shock mounts for low handling noise
- Two-stage pop filter to protect against “p” pops
- Switchable transmitter power output with high and low settings offered
- Integrated two-position power/mute switch
- Straightforward internal channel selector with included tool
- Digital Tone Lock™ to identify the wireless transmitter to the receiver
- Operates on two AA batteries
- Battery condition indicator
- Supplied with a heavy-duty microphone stand clamp

Description

The ATW-T220 cardioid dynamic wireless handheld transmitter incorporates the PRO 41 dynamic element created for professional live sound venues. The element includes internal shock mounts for low handling noise. An integral two-stage pop filter within the steel headcase protects against “p” pops and other breath plosives. The transmitter includes an adjustable gain control to tailor the input to the sound source. An integrated two-position power/mute switch eliminates the need for a separate mute button. An RF power select switch offers high and low settings. The transmitter operates on two standard AA batteries and a battery condition indicator illuminates when the batteries are good. An internal channel selector allows the transmitter to operate on any one of ten channels. The transmitter is constructed of high-impact materials and includes a heavy-duty microphone stand clamp.

Architect’s and Engineer’s Specifications

The frequency-agile FM wireless handheld transmitter utilizing a cardioid dynamic element shall be part of a wireless system offered in two UHF bands, 656.125–678.500 and 487.125–506.500 MHz. The element shall be protected by a rugged metal head case with integral two-stage pop filter. A two-position positive-action mechanical power/mute switch operable without looking at the transmitter shall be provided. Transmitters using separate mute and power buttons shall be unacceptable. The transmitter shall have illuminated indicator to signify battery condition. Ten selectable channels shall be available. Channel selection shall be via a recessed rotary selector and the proper tool shall be included with the transmitter. The device shall have an LED indicator when it is turned on. There shall be a trim adjustment to allow input gain changes. The transmitter shall include a Tone Lock™ to identify the wireless transmitter to the wireless receiver. This transmitter

shall provide a minimum of 12 mW RF power level and shall operate on two AA batteries. All channel settings and level adjustments shall be hidden behind a removable cover to prevent unnecessary access. The transmitter shall have an integral antenna and be constructed of high-impact materials. A heavy-duty stand clamp shall be included with the transmitter.

The FM wireless handheld transmitter shall be an Audio-Technica ATW-T220a or equivalent.

Specifications

RF power output	High: 30 mW, Low: 10 mW, (switchable)
Spurious emissions	Following federal and national regulations
Microphone element	Dynamic, cardioid
Batteries	Two 1.5V AA alkaline (not included) or two 1.2V AA NiMH (not included) <i>Recharging power for NiMH batteries (with ATW-CHG2)</i> <i>U.S./Canada/Latin America: 3.2 V DC --- 230 mA x2</i> <i>Other world areas: 3.2 V DC --- 320 mA x2</i>
Battery life	High: 7 hours (alkaline), Low: 9 hours (alkaline) Depending on battery type and use pattern
Dimensions	232.0 mm (9.13") long, 48.0 mm (1.89") diameter
Net weight	252 g (8.9 oz), without batteries
Accessory Included	AT8456a Quiet-Flex™ stand clamp

In the interest of standards development, A.T.U.S. offers full details on its test methods to other industry professionals on request.

Specifications are subject to change without notice.