

# Component Specifications

## UR2 Handheld Transmitter

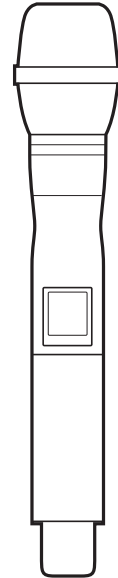
### Overview

UHF-R handheld transmitters boast a rugged, lightweight construction and an antenna design which advances RF transmission reliability. The transmitter design allows for interchangeable microphone cartridges. The UR2 is offered with SM58®, SM86, SM87A, Beta 58A®, Beta 87A™, Beta 87C™, and KSM9. UHF-R Wireless Systems feature KSM9 as the premier choice in handheld vocal microphones.

- Switchable RF power
- Frequency and power lockout
- Bit-mapped backlit LCD
- Powered by 2 AA batteries
- Infrared automatic transmitter sync
- All metal die-cast construction
- Interchangeable cartridges

### Product Specifications

Gain Adjustment Range	-10 to +20 dB
Maximum Input Level	+4.8 dBu
Input Impedance	> 1 MΩ
Output Impedance	50 Ω
RF Power Output	10 mW or 10/50 mW (region dependent)
Housing	Aluminum die-cast handle and aluminum machined battery cup
Power Requirements	2 AA alkaline
Battery Life (Typical)	6 hours (high power), 9.5 hours (low power)
Overall Dimensions	UR2/SM58: 261 mm L x 51 mm Dia. (10.27 x 2 in.) UR2/SM86: 261 mm L x 51 mm Dia. (10.27 x 2 in.) UR2/SM87A: 254 mm x 51 mm Dia. (10 x 2 in.) UR2/KSM9/BK, UR2/KSM9/SL: 250 mm x 49 mm Dia. (9 7/8 x 1 15/16 in.) UR2/BETA 58: 258 mm L x 51 mm Dia. (10.15 x 2 in.) UR2/BETA 87A, UR2/BETA 87C: 254 mm x 51 mm Dia. (10 x 2 in.)
Net Weight	UR2/SM58: 356 g (12.6 oz.) without battery UR2/BETA 58: 314 g (11.1oz.) without battery UR2/SM86: 317 g (11.2 oz.) without battery UR2/SM87A: 298 g (10.5 oz.) without battery UR2/KSM9/BK, UR2/KSM9/SL: 410 g (14.5 oz.) without battery UR2/BETA 87A, U2/BETA 87C: 325 g (11.5 oz) without battery



**UR2**  
Handheld Transmitter (shown with mic capsule)

### Microphone Options

UR2/SM58	UR2 Handheld Transmitter with SM58 Cardioid Microphone
UR2/SM86	UR2 Handheld Transmitter with SM86 Cardioid Microphone
UR2/SM87A	UR2 Handheld Transmitter with SM87A Supercardioid Microphone
UR2/BETA 58	UR2 Handheld Transmitter with Beta 58A Supercardioid Microphone
UR2/BETA 87A	UR2 Handheld Transmitter with Beta 87A Supercardioid Microphone
UR2/BETA 87C	UR2 Handheld Transmitter with Beta 87C Cardioid Microphone
UR2/KSM9/BK	UR2 Handheld Transmitter with KSM9 Dual-Diaphragm Condenser Microphone, Black
UR2/KSM9/SL	UR2 Handheld Transmitter with KSM9 Dual-Diaphragm Condenser Microphone, Champagne

### Architectural Specifications

The wireless handheld transmitter shall operate in the UHF band and shall provide a tone key (32,768 kHz) to increase reliability and to minimize unwanted noise. The system shall allow to change the operating frequency in 25 kHz steps in order to avoid RF interference, enabling up to 47 systems to operate simultaneously in one frequency band. Preconfigured group, channel and frequency set-ups shall be available to ensure that multiple systems in use do not interfere with one another.

The transmitter shall be programmable through a menu as well as infrared synchronization (including the sync of free programmable custom groups). The transmitter shall provide exchangeable micro-phone capsules as well as a backlit LC display showing name, battery gauge, carrier frequency, gain and lock settings. LCD menu controls should cover adjustable audio gain, tunable carrier frequency, switchable RF power, and frequency and power lock settings as well as the access to the RF Safety Mode (transmitter operation with muted RF carrier).

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