

Component Specifications

AXT200 Handheld Frequency Diversity Transmitter

Overview

The AXT200 Handheld Frequency Diversity Transmitter is a rechargeable, remotely controllable handheld transmitter with Frequency Diversity for seamless, uninterrupted audio in even the most challenging RF environments. In addition to Frequency Diversity, the AXT200 delivers ultra-linear RF performance for more channels on-air and superb audio quality. Advanced power management supports extended battery life and highly accurate status metering. ShowLink™ Remote Control enables comprehensive real-time remote control of all transmitter parameters, including real-time frequency adjustments.

- Frequency Diversity enables simultaneous transmission on two independent frequencies to ensure seamless, uninterrupted audio for mission-critical transmitters. Single carrier mode is available if Frequency Diversity is not required.
- Ultra-linear RF performance enables more channels on-air
- IR Sync function automatically tunes transmitter to the receiver frequency
- Comprehensive real-time remote control of all transmitter parameters when a Linked transmitter is within range of a ShowLink Access Point
- Shure lithium-ion rechargeable battery delivers up to 9 hours of runtime from a single charge
- Advanced control menu to adjust frequency and audio settings from the transmitter
- 42 dB of adjustable gain for optimal audio quality
- Lockable user interface prevents accidental or inadvertent changes to controls once settings are made

Product Specifications (subject to change)

RF Carrier Frequency Range	470-814 MHz Note: varies by region
Working Range	Under typical conditions: 150 m (500 ft) Line of sight, outdoors for a single system: 500 m (1600 ft) Note: Actual range depends on RF signal absorption, reflection and interference
Audio Frequency Response	40 – 18 kHz (+1, -3 dB) Note: dependent on microphone type
RF Tuning Step Size	25 kHz
Modulation (45 kHz max. deviation)	FM, Audio Reference Companding with pre- and de-emphasis
Signal-to-Noise Ratio (SNR)	>113 dB (A-weighted) @1% THD
Total Harmonic Distortion (45 kHz max. deviation)	<0.3%, A-weighted, typical
System 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.
Gain Adjustment Range	-10 to +32 dB (in 1 dB steps)
Battery Type	Shure AXT920/920SL (Rechargeable Li-Ion)
Battery Life	Up to 9 hours (low power mode, Single Carrier Mode)
Weight	395 g (13.9 oz.), with batteries
Housing	Machined aluminum
Operating Temperature Range	-18°C (0°F) to 63°C (145°F) Note: Battery characteristics may limit this range.
Storage Temperature Range	-29°C (-20°F) to 74°C (165°F) Note: Battery characteristics may limit this range.
Audio Input	
Configuration	Unbalanced
Impedance	>30 kΩ
Maximum Input Level (1 kHz at 1% THD)	Gain Position: -10 to +11 dB: 5.5 dBu +12 to +32 dB: -6.5 dBu
RF Output	
Connector	SMA (UHF and ShowLink); Shell=Ground, Center=Signal
Antenna Type	Integrated Dual Band Helical
Power	See Frequency Range and Output Power table
Mode	Frequency Diversity: Dual Carrier Single Carrier: Single Carrier
Impedance	50 Ω
ShowLink	
Network Type	IEEE 802.15.4
Frequency Range	2.40 to 2.4835 GHz (16 Channels)
RF Output Power	10 dBm (ERP)

Included Components

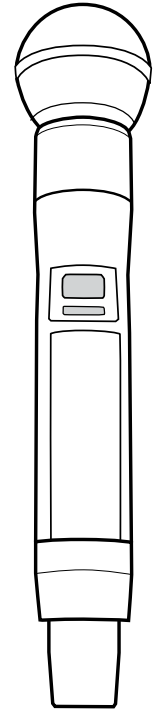
AXT920 or AXT920SL	Handheld rechargeable lithium-ion battery (2)
95A15475	Transmitter carrying case
26A14	Zipper bag
WA371	Microphone stand adaptor
Choice of (1) of the following Shure microphone cartridges	SM58 (RPW112) KSM9 Black (RPW184) BETA 58A (RPW 118) KSM9 Champagne (RPW180) BETA 87A (RPW120) KSM9HS Black (RPW186) BETA 87C (RPW122) KSM9HS Champagne (RPW182)

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AXT200
Handheld Frequency Diversity
Transmitter (with microphone cartridge)

Available Frequency Bands

Band	Frequency Range (MHz)	Power (mW)
A24	779 to 806	10
G1	470 to 530	10/50
G12	479 to 530	10/20
G19	470 to 530	2/10
G1E	470 to 530	10/50
G7C	470 to 510	10/50
H12	518 to 565	10/20
H18	518 to 578	2/10
H4	518 to 578	10/50
H4E	518 to 578	10/50
J12	578 to 638	2/10
J5	578 to 638	10/50
J5E	578 to 638	10/50
J5HK	578 to 638	10
JBX	806 to 810	10
K4E	606 to 666	10/50
L20	638 to 698	2/10
L3	638 to 698	10/50
L3E	638 to 698	10/50
M8	666 to 730	10/50
MA24	779 to 806	2/10
MJBX	806 to 810	2/10
P8	710 to 790	10/50
P9	710 to 787	10/50
Q5	740 to 814	10/50
R16	794 to 806	10/50

Optional Accessories

AXT920 or AXT920SL	Handheld rechargeable lithium-ion battery (2)
AXT904	Portable handheld charging station
AXT921	1-AA battery carrier for AXT200 handheld transmitter
AXT651	Talk Switch (may not be available in all regions)
WA371	Microphone stand adaptor
AXT913	3-AA Battery Sled for AXT100 bodypack transmitter
WA302	Instrument cable
Shure microphone cartridges	SM58 (RPW112) BETA 87C (RPW122) BETA 58A (RPW 118) KSM9 Black (RPW184) BETA 87A (RPW120) KSM9 Champagne (RPW180) SM86 (RPW114) VP68 (RPW124)