

T SERIES WIRELESS SYSTEMS

DESCRIPTION

Shure T Series wireless microphone systems are single-channel systems operating at 10 frequencies in the VHF band between 169.445 MHz and 240.000 MHz. Up to six systems can be operated simultaneously in a single installation without intermodulation problems. (Each system must operate on a different frequency).

Each system consists of either a hand-held T2 Microphone-Transmitter or a T1, T1G, or T11 Body-Pack Transmitter, and either a single antenna T3 Receiver or a T4N Predictive Diversity Receiver. Systems with Body-Pack Transmitters variously include microphones or cables to accommodate different applications and input sources.

T Series receivers use a noise squelch circuit which analyzes signal *quality* instead of signal strength. This virtually eliminates the possibility of annoying bursts of noise coming through the receiver.

SYSTEM CONFIGURATIONS

The Guitarist™ – Body-pack system designed for use with electric guitars, basses, and other electric instruments. Includes:

- T1G or T11 Transmitter
- T3 Receiver or T4N Diversity Receiver
- PS20, PS20E, or PS20UK Receiver Power Supply
- Cables

The Vocal Artist™ – Hand-held system designed for singers; it features a Shure SM58 or BG3.1 dynamic microphone with a built-in transmitter. Includes:

- T2 Microphone-Transmitter (T2/58 with a Shure SM58 or T2/31 with a Shure BG3.1 microphone)
- T3 Receiver or T4N Diversity Receiver
- PS20, PS20E, or PS20UK Receiver Power Supply
- Stand Adapter

The Presenter™ – Body-pack lavalier system designed for public speaking applications such as lectures and business presentations; it features either an omnidirectional (Shure WL93), cardioid (Shure WL185), or super cardioid (Shure WL184) lavalier microphone. Includes:

- T1 or T11 Transmitter
- T3 Receiver or T4N Diversity Receiver
- PS20 or PS20E, or PS20UK Receiver Power Supply

The Headset™ – Body-pack system for applications requiring hands-free operation such as aerobics or percussion. It features a Shure WH20 Headset Microphone. Includes:

- T1G or T11 Transmitter
- T3 Receiver or T4N Diversity Receiver
- PS20 or PS20E, or PS20UK Receiver Power Supply

The Bodypack Wireless™ – Configurable system for use with various microphones. Includes:

- T3 Receiver or T4N Diversity Receiver
- PS20, PS20E, or PS20UK Receiver Power Supply

OVERALL SYSTEM SPECIFICATIONS

NOTE: The following specifications apply to *all* T Series wireless systems. Additional specifications for each system are listed on the back page.

RF Carrier Frequency Range

169.445 to 240.000 MHz (Available frequencies depend on applicable regulations in country where system is used).

Operating Range

100 m (328 ft) under typical conditions

Audio Frequency Response

50 to 15,000 Hz, ± 3 dB

Image Rejection

60 dB typical

Spurious Rejection

>60 dB typical

System Distortion (ref. ± 15 kHz deviation, 1 kHz modulation)

0.1% THD typical

Signal/Noise Ratio

101 dB

Sensitivity

-109 dBm for 12 dB SINAD typical

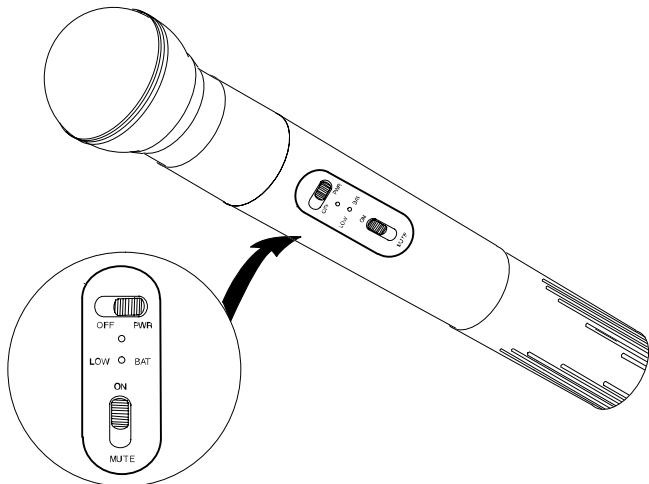
Operating Temperature Range

-18° to 57° C (0° to 135° F)

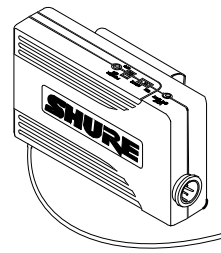
NOTE: Battery characteristics may limit this range.

Battery Life

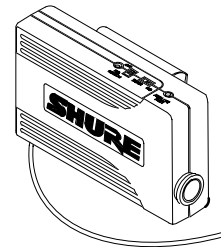
18 hours with 9 V alkaline battery (Duracell MN1604)



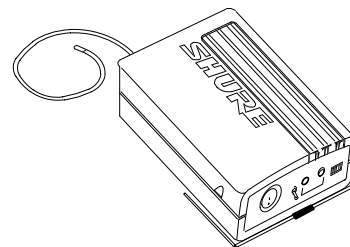
T2 MICROPHONE-TRANSMITTER



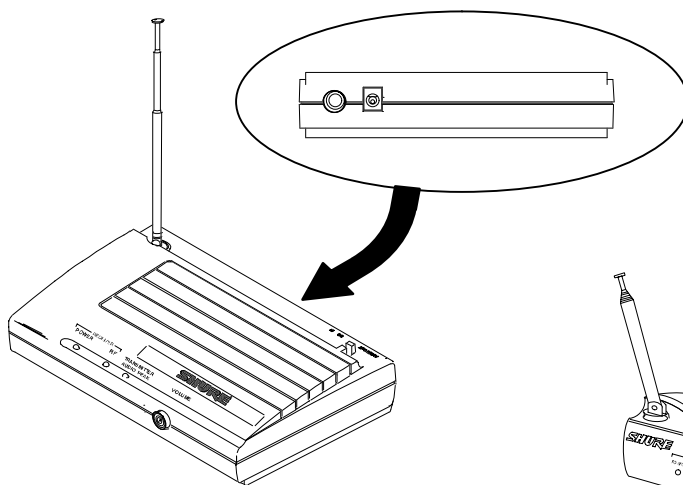
T1 BODY-PACK TRANSMITTER



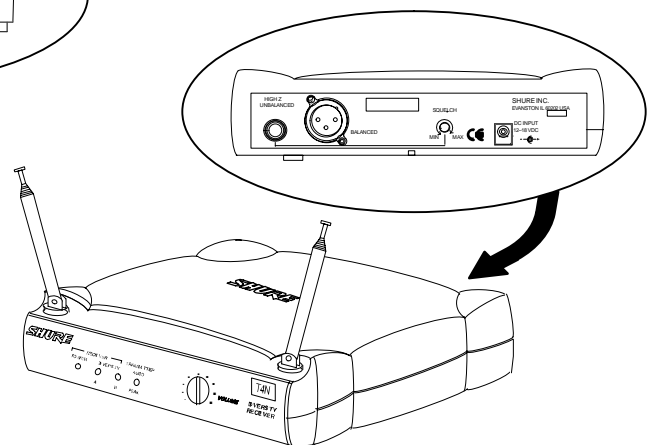
T1G BODY-PACK TRANSMITTER



T11 BODY-PACK TRANSMITTER



T3 RECEIVER



T4N DIVERSITY RECEIVER

T SERIES WIRELESS SYSTEMS

T1, T1G AND T11 BODY-PACK TRANSMITTER

RF Output	50 mW Typical (T1, T1G); 20 mW Typical (T11)
Input Configuration	Unbalanced
Connector Type	4-pin Tini QG (male)
Actual Impedance	1 MΩ
Maximum Recommended Input Level*	+3 dBV
Minimum Recommended Input Level**	-80 dBV
Connector Pin Assignments	Pin 1:Tied to Ground Pin 2:Tied to +5 V Pin 3:Tied to Audio Pin 4:Tied to 20kΩ Resistor and Audio Ground T1G: Tip tied to Audio; Sleeve to Ground
Dimensions (T1, T1G)	64 mm H x 106 mm W x 24 mm D (2.52" H x 4.17" W x 0.95" D)
Dimensions (T11)	83 mm H x 64 mm W x 26 mm D (3.27" H x 2.5" W x 1.03" D)
Net Weight (T1,T1G)	96.4g (3.4 oz.)
Net Weight (T11)	79.4g (2.8 oz.)
Power Requirements	9 V alkaline battery (Duracell MN1604 recommended); 8.4 V NiCd battery optional.
Nominal Current Drain	30 mA

* Gain Control at minimum
** Gain Control at maximum

T2 HAND-HELD TRANSMITTER SPECIFICATIONS

	T2/58 (SM58)	T2/31(BG3.1)
RF Output	50 mW Typical (FCC); 20 mW Typical (ETSI)	
Dimensions	236 mm H x 51 mm D (9.29" H x 2.01" D)	222 mm H x 51 mm D (8.74" H x 2.01" D)
Net Weight	295g (10.4 oz.)	266g (9.4 oz.)
Power Requirement	9 V alkaline battery (Duracell MN1604 recommended); 8.4 V NiCd battery optional.	
Nominal Current Drain	30 mA	30 mA

T3 AND T4N RECEIVER

	T4N	T3
Connector	3-Pin XLR (Male) and 1/4" Phone jack	1/4" Phone jack
Maximum Output Levels	1/4": +5 dBV XLR: -10 dBV	-6.8 dBV
Nominal Output Levels	1/4": -8 dBV XLR: -30 dBV	-32 dBV
Output Configuration	Active Balanced	Unbalanced
Actual Impedance	3.3 KW	1 KW
Connector Pin Assignments	XLR: Pin 1: ground; Pin 2: hot; Pin 3: cold 1/4": Tip: hot; Sleeve: ground.	Tip: hot Sleeve: ground
Dimensions (T4N)	41 mm H x 197 mm W x 138 mm D (1.625" H x 7.77" W x 5.42" D)	
Dimensions (T3)	35 mm H x 152 mm W x 98 mm D (1.38" H x 5.98" W x 3.85" D)	
Net Weight (T4N)	435g (15.4 oz.)	
Net Weight (T3)	192 g (6.8 oz.)	
Power Requirements	12-18 Vdc nominal, 200mA	
Power Supply	120 V or 230V ac adaptor with 2.1 mm female plug	
Voltage/Current/Phantom Power Protection	Yes	Yes

CERTIFICATION

T1G, T1: Accepted under FCC Parts 74 and 90. Certified by IC in Canada under TRC-78.

T11: Conforms to European Union directives, eligible to bear CE marking; meets European Union Requirements. Type Approval: pr I-ETS 300 442, BZT 17 TR 2019, and BAPT 122 R 1. EMC Immunity: pr ETS 300 445.

T2/31, T2/58: Type Accepted under FCC Parts 74 and 90. Certified by IC in Canada under TRC-78. Conforms to European Union directives, eligible to bear CE marking; meets European Union Requirements. Type Approval: pr I-ETS 300 442, BZT 17 TR 2019, and BAPT 122 R 1. EMC Immunity: pr ETS 300 445.

T3, T4N: Approved under the Declaration of Conformity procedure of FCC Part 15 (T3). Certified by IC in Canada under RSS 123 (T4N). Conforms to European Union directives, eligible to bear CE marking; meets European Union Requirements. EMC Immunity: pr ETS 300 445. Power supply meets Low Voltage Directive: 73/23/EEC.

FURNISHED ACCESSORIES

Gain Adjustment Screwdriver	65A1659
Sew-in Mounting Block (WL93; Presenter Systems Only)	65B1733*
Receiver AC Adapter .. PS20 (120V), PS20E (220V), PS20UK	
Guitar Cables (Guitarist systems only)	
1/4" to 1/4"	WA303
1/4" to Tini Q-G	WA302
Swivel Adapter (Vocal Artist Systems Only)	WA371
Plastic Carrying Case (Diversity Systems)	WA605
Plastic Carrying Case (Non-diversity Systems)	WA600

* Replacements furnished in multiples of 4

OPTIONAL ACCESSORIES AND REPLACEMENT PARTS

Anti-Roll Device for Handheld Transmitters	A1K
Neoprene Bodypack Belt Pouch	WA570
Line Matching Output Transformer (T3 Receiver)	A95U
1.8 Meter (6 ft.) Receiver-Mixer Cable	WA410
Rack-Mount Kit (T4N Diversity Systems Only)	URT
Amp/Powered Mixer stand for Receivers	WA595

Presenter Systems Only

Tan version of WL93	WL93T
Single-Mount Tie Clip (2) (WL93)	RK354SB
Dual-Mount Tie Clip (WL93)	RK307DB
Black Windscreen (4) (WL93)	RK355WS
Tan Windscreen and Tie Clip (2 each) (WL93)	RK304T
Replacement Cartridges (compatible with WL184, WL185)	R183B, R184B, R185B
Tie Clip Microphone Holders (2) (WL184, WL185) Single mic	RK183T1
Dual mics	RK183T2

Black Snap-fit Windscreens (4) (WL184, WL185)	RK183WS
Black Foam Windscreen (4) (WL 184, WL185)	RK261BWS

Headset Systems Only

Foam Windscreens (2) and Clothing Clip (WH20) ..	RK318WS
Croakies® Headband (WH20)	RK319
Croakies® Headband and Wire Frame (WH20)	RPM600
Microphone and Boom Assembly (WH20)	
1/4" plug	RPM100
Tini Q-G plug	RPM102

SHURE®

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