

Trantec Series Wireless Microphone Systems

The wireless microphone system shall be of professional quality with an operating frequency range of 692-722 MHz with 240 [24] selectable channels and simultaneous operation of up to twenty four systems. The transmission method shall be frequency modulation using a PLL-based modulation system. RF carrier power shall be no greater than 50mW. The system shall be FCC and UL listed with a five year manufacturer's warranty.

S5.5-HD-A Handheld Microphone Set

The wireless receiver (S5.5-RX Receiver) shall have 183 selectable channels with 24 channels operating simultaneously and a built-in scanner function to scan the RF environment and indicate available channels. The receiving method shall be double super-heterodyne using signal strength-comparative antenna switching diversity. Specifications shall include a S/N ratio of 110+ dB (A-weighted), harmonic distortion of 1% or less (typical), and frequency response of 50 Hz - 20 kHz, + 3dB. The receiving sensitivity shall 0 dBuV or less (12dB SINAD). The squelch types shall be carrier, noise and tone key with a variable squelch sensitivity of 6-36 dBuV variable and a 32.768 kHz tone key frequency. The receiver shall have two antenna inputs, each with TNC-type connectors, 50 ohm impedance and 9V, 30mA, available for remote antennas. The audio outputs shall be a switchable balanced type with XLR-M jack with line level signal being +15dBm max and mic level signal being at -25dBm max, and an unbalanced type with 1/4" phone jack with signal level being +9dBm max, both with an output impedance of 600 ohms. The rear panel shall include connection for USB interface to link receiver to computer to utilize included computer software. The front panel shall include an LCD for RF and AF monitoring as well as frequency setting, scanner functions, receiver settings, transmitter settings, audio settings (low cut, high boost, phase reversal), battery status, mute status, LCD contrast, and headphone volume. Front panel LED's shall include antenna A / B reception status, power status and mute status. The front panel shall have a 1/4" phone jack for use with headphones for audio monitoring. The front panel shall have an IR transmitter for syncing of audio and frequency settings with wireless devices. Front panel controls shall include a power button and jog wheel. The wireless receiver shall be powered from the AC mains using a supplied AC-DC adapter with power consumption of 300 mA (12VDC). The unit shall operate within a temperature range of -10 degrees C to +55 degrees C (14 degrees F to 131 degrees F). Unit construction shall be steel, painted dark gray, with the front panel being aluminum, silver, almite with dimensions being 210mm (W) X 46 mm (H) X 210 mm (D) (8.27" X 1.81" X 8.27") and weight of 1.3 kg (2.87 lbs). Included accessories shall be 1 CD for PC Monitoring Software, 2 TNC cables, 1 AA Battery, 1 AC adapter, 1 microphone holder with stand adapter, 2 wireless antenna, 2 antenna blanking caps, 6 color rings, 1 rack mounting kit. Up to one unit shall be rack-mountable in one standard 19" rack height with provided rack mount kit.

The handheld wireless microphone (S5.5-HDX) shall be dynamic type with a cardioid pattern and capable of a maximum input level of 146 dB SPL. The transmission method shall be frequency modulation with a PLL based modulation system operating within the frequency range of 692-722 MHz with 183 selectable channels. The RF carrier power shall be no greater than 50mW with a maximum deviation of +40 kHz and has a tone key of 32.768 kHz. The unit shall operate for a minimum of 8 hours using a single AA (LR6), alkaline type battery. A power LED shall glow continuously to show normal operation. The transmitter shall utilize a 1/4 wave helical antenna. An LCD screen shall show frequency, microphone sensitivity adjustment (gain 0-2, 12 dB), and battery status (4 stages). Transmitter controls shall include on/off switch, gain up/down buttons which also operate as frequency up/down buttons, an infra-red link port for purposes of syncing with corresponding S5.5-RX unit, and mute switch. Transmitter shall have all metal construction with a dark gray finish and shall operate within a temperature range of +14° F to +131° F (-10° C to +55° C). Dimensions (width x height) of the unit shall be 50 mm (1.97") x 247.9 mm (9.76"). The weight (with battery) shall be 380 g (0.8 lb). Included

accessories shall be stand adapter and 5 color rings.

The antenna distributor shall be TOA model# WD-4800.
The remote powered antenna shall be TOA model# YW-4500.

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S5.5-L-A Lapel Microphone Set

The wireless receiver (S5.5-RX Receiver) shall have 183 selectable channels with 24 channels operating simultaneously and a built-in scanner function to scan the RF environment and indicate available channels. The receiving method shall be double super-heterodyne using signal strength-comparative antenna switching diversity. Specifications shall include a S/N ratio of 110+ dB (A-weighted), harmonic distortion of 1% or less (typical), and frequency response of 50 Hz - 20 kHz, + 3dB. The receiving sensitivity shall 0 dBuV or less (12dB SINAD). The squelch types shall be carrier, noise and tone key with a variable squelch sensitivity of 6-36 dBuV variable and a 32.768 kHz tone key frequency. The receiver shall have two antenna inputs, each with TNC-type connectors, 50 ohm impedance and 9V, 30mA, available for remote antennas. The audio outputs shall be a switchable balanced type with XLR-M jack with line level signal being +15dBm max and mic level signal being at -25dBm max, and an unbalanced type with 1/4" phone jack with signal level being +9dBm max, both with an output impedance of 600 ohms. The rear panel shall include connection for USB interface to link receiver to computer to utilize included computer software. The front panel shall include an LCD for RF and AF monitoring as well as frequency setting, scanner functions, receiver settings, transmitter settings, audio settings (low cut, high boost, and phase reversal), battery status, mute status, LCD contrast, and headphone volume. Front panel LED's shall include antenna A / B reception status, power status and mute status. The front panel shall have a 1/4" phone jack for use with headphones for audio monitoring. The front panel shall have an IR transmitter for syncing of audio and frequency settings with wireless devices. Front panel controls shall include a power button and jog wheel. The wireless receiver shall be powered from the AC mains using a supplied AC-DC adapter with power consumption of 300 mA (12VDC). The unit shall operate within a temperature range of +14° F to +131° F (-10° C to +55° C). Unit construction shall be steel, painted dark gray, with the front panel being aluminum, silver, almite with dimensions being 210mm (W) X 46 mm (H) X 210 mm (D) (8.27" X 1.81" X 8.27") and weight of 1.3 kg (2.87 lbs). Included accessories shall be 1 CD for PC Monitoring Software, 2 TNC cables, 1 AA Battery, 1 AC adapter, 1 microphone holder with stand adapter, 2 wireless antenna, 2 antenna blanking caps, 6 color rings, 1 rack mounting kit. Up to one unit shall be rack-mountable in one standard 19" rack height with provided rack mount kit.

The lapel microphone with body pack (S5.5-LTX Belt pack Transmitter) shall be an electret condenser microphone with an omni-directional pickup pattern and be capable of a maximum input level of 120 dB SPL. The transmission method shall be frequency modulation with a synthesized PLL-based modulation system operating in the frequency range of 692-722 MHz with 183 selectable channels. The RF carrier power shall be no greater than 50 mW with maximum deviation of +40 kHz and a tone key frequency of 32.768 kHz. The unit shall have a frequency response of 60 - 20,000 Hz. The unit shall operate for a minimum of 10 hours using a single 1.5 V AA (LR6), alkaline type battery. One LED shall indicate power on. The unit shall have an infra-red link port for purposes of syncing with corresponding S5.5-RX unit. The unit shall have an LCD to display frequency, microphone sensitivity adjustment (gain 0-9, 20 dB), and battery status (4 stages). The transmitter shall utilize a 1/4 wave mono-pole type antenna. Transmitter controls shall include power On/Off, Frequency select and Input Sensitivity Adjust. The body pack shall include a TA-4 (mini XLR-4 pins). The transmitter shall operate within a temperature range of +14° F to +131° F (-10° C to +55° C). The transmitter shall have an all metal construction with a silver finish. Body pack dimensions (width x height x depth) shall be 55 mm x 80 mm x 22 mm (2.17" x 3.15" x .79"). The antenna shall measure 73 mm (2.87"). The lapel microphone cable length shall be 1300 mm (51.18"). The weight (with battery) shall be 140 g (0.31 lb). Included accessories shall be a microphone

lapel clip and removable belt clip for the body pack.

The antenna distributor shall be TOA model# WD-4800.

The remote powered antenna shall be TOA model# YW-4500.

WD-4800 Antenna Distributor

The antenna distributor shall be suitable for use in both the VHF and UHF frequency ranges. The unit shall have two paralleled antenna inputs on each of the front and rear panels with BNC-type connectors, 75 ohm impedance and 9 VDC / 25 mA available for remote antennas. The unit shall have eight rear panel antenna outputs, four from each front/rear-panel antenna input, BNC-type connector and 75 ohm impedance. Four rear panel DC outputs, 12 VDC, shall be available for powering compatible wireless receivers. The front panel shall include Power On/Off and Power LED. The antenna distributor shall be powered from the AC mains (120 / 230 V AC selectable). The unit shall operate within a temperature range of +14° F to +122° F (-10° C to +50° C). Unit construction shall be black painted steel with dimensions of 16.54" x 1.73" x 8.02" (420 x 44 x 203.8 mm) and weight of 7.83 lbs. (3.55 kg). Included accessories shall be one IEC power cord and four DC cables. The unit shall be rack-mountable and occupy one standard rack height with an optional rack-mount kit.

YW-4500 Remote Powered Antenna

The remote dipole antenna shall be suitable for use in the UHF frequency range of 680 - 880 MHz. The antenna gain shall be greater than 8 dB with a V. S. W. R. of less than 3. The output impedance shall be 75 ohm with an operating distance of 115 ft. (35 m) maximum using RG-6U cable or 164 ft. (50 m) maximum using RG-11U cable. The antenna power requirement shall be 7 - 12 VDC with current consumption of less than 24 mA supplied from the wireless receiver or antenna distributor. The unit shall have a mounting hole pitch of 3.29" (83.5 mm). The operating temperature shall be +14° F to +122° F (-10° C to +50° C). Unit construction shall be AES resin, off-white with dimensions of 4.13" x 5.51" x 4.96" (105 x 140 x 126 mm) and weight of 0.66 lbs. (300 g).