

# TRANTEC SYSTEMS

## Technical Specifications for the S5000 Series

### **S5000RX - Fully Synthesised UHF Microprocessor Controlled Dual Conversion True Diversity Receiver:**

Gasfet Front, High Sensitivity and Low Noise  
Double Balanced Mixer for High Dynamic Range  
Multiple High Rejection Bandpass Helical Filters  
True Diversity Topology  
Transmitter Battery Monitoring  
MUM, Multi-User Mode  
Channel Grip, Interference Immunity Protection  
LCD Display, monitoring all Aspects of Performance  
Balanced Transformer Audio Output at Line & Mic Levels

RF Frequency: 854-862MHz TV Channel 69 (Others Available on Request)  
RF Sensitivity: 0.3uV for 12dB SINAD  
Image Rejection: 1st IF 85dB, 2nd IF 70dB 2nd IF Bandwidth: 110kHz Max  
Frequency Stability: 10kHz  
Maximum Deviation: 30kHz  
RF 1dB Compression Point: -8dBm  
Controls: Power On-Off, Mute Level, Headphone Gain, Frequency Selection, LCD Meter Selection, Multi Function Controls  
Construction: All Metal Enclosure, Half Width 1U Rack Size  
Size: 217 by 275 by 44mm  
Power Requirement: IEC 220-240v 50/60Hz, via IEC Connector  
Audio Frequency Response: 70Hz - 18kHz (-3dB)  
Distortion: < 0.2% Noise Reduction: Complementary Variable Ratio Compression/Expansion with Pre-Emphasis/De-Emphasis  
Dynamic Range: 1100dBA  
Audio Output Levels: Switchable Between Line (0dBm) and Mic (-30dBm), 600 Ohms  
Audio Output: transformer Balanced, Fully Floating XLR and Balanced Jack

### **S5000LTX - Microprocessor Controlled Bodypack Transmitter:**

Low Noise VCO for High Audio SNR and RF Selectivity  
Very Low Power Consumption  
Ruggedised User Controls  
4 Pin LEMO Connector, for Direct Connection of Most Available Microphones  
LCD Display, for Channel Identification  
Audio Peak Indicator  
Battery Life Indicator  
Audio Gain Control

RF Frequency: 854-862MHz TV Channel 69 (Others Available on Request)  
Power Output: typ 30mW  
Nominal Deviation: 15kHz  
RF Harmonic & Spurious Radiation: < -54dBm  
Stability: 10kHz (-10 - 45c)  
Battery End Point: 6.8v  
Battery Consumption: Typically 40mA (Aproximately 12 Hours from Alkaline)  
Number of Channels: 64 in 4 Banks of 16

Audio Frequency Response: 70Hz - 18kHz (-3dB)  
Audio Input: Lemo FGG304, Pin1: 0v, Pin 2: DC Bias, Pin 3: Audio/DC Bias, Pin 4: AC coupled Audio  
Audio Level: -10dBu - -36dBu via Adjustable Gain Control for 15kHz Deviation (1kHz)  
Input Impedance: Nom. 10K Ohm  
Audio Level Indicator: Peak LED  
Battery Low Indicator: Flashing LED  
Size: 80 by 54 by 30mm  
Weight: 157g  
Type Approval: 10902 (ch69L)

**S5000MTX - Microprocessor Controlled Handheld Transmitter:**

Low Noise VCO Design  
16 Channel Operation  
Internal Audio Limiter  
Battery Low Indicator  
Ruggedised User Controls  
All Metal Construction  
Compact Dimensions  
Quick Action Battery Compartment

RF Frequency: 854-862MHz TV Channel 69 (Others Available on Request)  
Power Output: typ 10mW  
Nominal Deviation: 22kHz  
Stability: 10kHz  
Battery End Point: 6.8v  
Audio Limiter Range: Typ 20dB Audio Frequency Response: 70Hz - 18kHz (-3dB)  
Dimensions: 200 by 32mm  
Weight: 355g (Including Battery)  
Type Approval: 10902 (ch69H)

**S5000ADU - 4 Way Active Antenna Distribution Unit:**

Frequency Range: 854-862MHz TV Channel 69 (Others Available on Request)  
Impedance: 50 Ohms (All Ports)  
Overall Gain: typ 6dB  
Isolation Between Channels: 40dB  
Isolation Between Adjacent Ports: 20dB  
Antenna Connectors: N Type  
Distribution Connectors: SMC  
Power Requirements: 220-240VAC 50/60Hz, 6VA Max, via IEC Connector

**S5000PDU - 4 Way Passive Antenna Distribution Unit:**

For Use With the S5000ADU  
Frequency Range: 854-862MHz TV Channel 69 (Others Available on Request)  
Impedance: 50 Ohms (All Ports)  
Isolation Between Channels: 40dB  
Isolation Between Adjacent Ports: 20dB  
Input And Output Connectors: SMC