TRANTEC
SYSTEMS

Technical Specifications for the S3500 System:

S3500RX - Multichannel Fully Synthesised VHF Receiver:

Programmable Frequency Range 170-220MHz
Digital Microprocessor Based Diversity Switching
True Multichannel Operation
Multiple Tracking Filters for Optimum RF Performance
LCD Display Monitoring All Aspects of Performance
Balanced Audio Output Via XLR
Unbalanced Variable Level Output via 1/4" Jack
Peak Audio and Active Channel Indicators
Double Screened RF Sections for High Interference Protection
Dual Active Digitally Controlled Mute Circuitry for Optimum Mute Performance
1/2 width 1U 19" Rack Format
Integral Front Mounted Telescopic Antennae (Also Available with Rear Antenna Connections)

RF Frequency: 170-220MHz (Subject to Licensing Requirements)
Switching Range: min 50MHz, 2000 Channel Capacity, 32 Channels Selectable
RF Sensitivity: 0.7uV for 12dB SINAD
IF Bandwidth: 100kHz Max
Frequency Stability: 10kHz (-10 - 45c)
Nominal Deviation: 22kHz
Audio Frequency Response: 30Hz - 18kHz (-3dB)
Distortion: < 0.3% Noise Reduction: Complementary Variable Ratio Compression/Expansion with Pre-Emphaisis/De-Emphasis
Dynamic Range: 110dBA
Audio Output Levels: -6dBu, User Adjustable via Rear Panel Control, -20dBm XLR Balanced
Indicators: Multi Functional LCD for VU/RF Levels, Channel Info, Mute Info, User Name Programming, LEDs for Active Channel and Audio Peak
DC Input: 10.5 - 18V, 180mA Unregulated. Protected Against Reverse Polarity
Dimensions: 210 by 165 by 30mm Weight: 900g

S3500LTX - Microprocessor Controlled Bodypack Transmitter:

LCD Display with Channel Information
Low Noise In-House Developed Trantec VCO for Low Noise Operation
4 Pin Lemo Connector for Direct Connection to Most Microphones
10 Hour Battery Life (9V Alkaline Battery)
32 Channel Capability (selectable from 2000)
Battery Low Indicator
Ruggedised User Controls
Adjustable Audio Gain
Ergonomically Designed Housing with Integral Multiposition Belt Clip

Frequency Range: 170-220MHz

Power Output: typ 20mW (50Mhz -1dB). 2mW ERP Deregulated Channels
Nominal Deviation: 22kHz
Stability: 10kHz (-10 - 45c)
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: +3dBu - -30dBu via Adjustable Gain Control
Input Impedance: Nom. 10K Ohm
Size: 60 by 25 by 95mm
Weight: 100g
Fully Meets with Requirements of ETS 300-422/445

S3500GTX - Microprocessor Controlled Bodypack Guitar Transmitter:

LCD Display with Channel Information
Low Noise In-House Developed Trantec VCO for Low Noise Operation
Industry Standard 1/4" Jack Socket Input
10 Hour Battery Life (9V Alkaline Battery)
32 Channel Capability (Selectable from 2000 Channels)
Battery Low Indicator
Ruggedised User Controls
Adjustable Audio Gain
Ergonomically Designed Housing with Integral Multiposition Belt Clip

Frequency Range: 170-220MHz
Power Output: typ 20mW (50Mhz -1dB). 2mW ERP Deregulated Channels
Nominal Deviation: 22kHz
Stability: 10kHz (-10 - 45c)
Audio Frequency Response: 40Hz - 18kHz (-3dB)
Audio Input: 1/4" Jack Socket
Audio Level: -10dBu - +10dBu via Adjustable Gain Control
Input Impedance: Nom. 470K Ohm
Size: 60 by 25 by 95mm
Weight: 100g
Fully Meets with Requirements of ETS 300-422/445

S3500MTX - Microprocessor Controlled Handheld Transmitter:

32 Channel Capability
Integral LCD Display
Easy Battery Access
Ergonomically Designed with Non-Slip Soft-Feel Finish
User Controlled Digital Gain Adjust
Available with High Quality Uni-Directional Dynamic MU-48C Head (Others Available on Request)

Frequency Range: 170-220MHz
Power Output: typ 20mW (50Mhz -1dB). 2mW ERP Deregulated Channels
Nominal Deviation: 22kHz
Stability: 10kHz (-10 - 45c)
Audio Frequency Response: 70Hz - 18kHz (-3dB)
Dimensions: 235 by 50 by 30mm
Weight: 200g
Fully Meets with Requirements of ETS 300-422/445