

# TRANTEC SYSTEMS

## S5000 IEM TECHNICAL SUMMARY PROFESSIONAL UHF STEREO IN-EAR-MONITOR SYSTEM

### *Transmitter Details:*

- Up to 64 frequencies, in up to 4 banks (16 per bank)
- Available configured on any UHF channel between 60 and 70, with a 32MHz bandwidth
- Up to 5 preset equalisations for optimisation with different earpieces
- Internal Stereo AF limiters with fast attack and visual indicators
- Mono/Stereo transmission is front panel selectable
- 1U 19" half width rack format, all metal construction
- Stereo Line Input (-20dB to +10dB adjustable, balanced on XLRs or unbalanced on jacks)
- Fully microprocessor controlled with easy to use front panel data wheel
- Large front panel LCD can show stereo VU meters, RF frequency or user name
- User name can be set from the front panel
- Internal Mains Power Supply, can also be powered from 12v supply for field use
- Windows software available to program frequency allocation, equalisation and user name from a PC or laptop. (Requires a Trantec adapter lead to connect to parallel port)

### *Receiver Details:*

- Frequency, channel and bank configuration same as for transmitter
- Large easy access volume control knob
- Separate power switch, recessed to prevent accidental operation
- Dual conversion receiver topology with high dynamic range front end for optimum image and interference rejection
- RF bandwidth < 180kHz - will work on standard radio mic channels
- Output on standard stereo mini jack for connection of earpiece or headphones (4Ω-32Ω)
- Digital Pan Control (DPC) allows user to set their headphone mix - two modes are available; in two channel pan mode a mono mix can be obtained from the two available audio channels. In stereo image mode the image of a stereo signal can be adjusted - this will even allow the image to be totally reversed, which will be useful for users facing the 'opposite' way such as conductors!
- Fully microprocessor controlled
- Top panel LEDs indicate RF mute and power/battery low
- Unique soft mute system
- Frequency selected by top panel rotary selector with concealed bank change push button
- LCD indicates frequency and bank, with battery life indication on power up
- Compact beltpack case, all metal construction. Same format as S5000TX beltpack
- Powered by single MN1604/PP3 9v battery, average life 8 hours
- Windows software available to program frequency allocation from a PC or laptop. (Requires a Trantec adapter lead to connect to parallel port)

### *Provisional System Specifications:*

Frequency Response: 40Hz to 15kHz  
Stereo Separation: 40dB (typical)

Signal to Noise Ratio: 80dB (minimum)  
Typical Range: Up to 100m, line of sight