



# **Wireless** Catalogue

# Introduction

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For nearly thirty years Trantec have specialised in producing high quality wireless microphones, belt packs and in ear monitors. Now owned by TOA, Trantec continues to advance by investing in our own research and development to ensure that our product range maintains its innovative, market leading position.

Our wide product range, as well as versatile accessories ensures that we can cater for the most challenging audio demands, at almost any budget within the broadcast, film, music, school, house of worship and theatre industries.

### UHF Frequency Systems

#### Channel 38

Back in 2011 the UK had a switchover from Channel 69 (which is now illegal, as of 2013) to Channel 38. Trantec were the first to supply a Channel 38 ready product, and are consistently ready to adapt to any changes in the industry in the future.

#### Channel 70

Channel 70 is the free to use, public bandwidth. All of Trantec’s UHF systems can be used with Channel 70 meaning you can plug in and go without having to worry about licensing.

### Digital Systems

#### ISM 2.4G Digital Audio Frequency

Trantec’s brand new S2.4 system has adopted the latest ISM 2.4G digital audio frequency which automatically filters out radio interference





# S4.04 Series - 4 Channel Wireless System

The S4.04 is Trantec's simplest plug and play system, designed to launch you in to the world of wireless. It's rugged and compact frames hold a reliable multifunctioning system that is optimised for use with a range of microphones from handheld, to lapels, to headsets, or alternatively can be used with a musical instrument.

## PLL Technology

Fully synthesized PLL quartz tuning technology

## Long Battery Life

A single AA battery gives up to 10 hours of quality performance with a range of up to 100 metres



## Four Channels

Four selectable frequencies can be used licence free in the UK on Channel 70



# S4.04 Series

## 4 Channel Wireless System

### S4.04-RX-EB-GD5

Receiver

- 4 switchable licence free frequencies on Channel 70 (UK)
- Fully synthesised PLL quartz tuning technology
- Receiver LED's show AF peak level, RF level & diversity channel A or B

Diversity Reception	Antenna Diversity
Sensitivity	10uV at 45dBA, S/N
Squelch	Tone SQ, Carrier SQ, Noise SQ
Audio Frequency Response	50Hz - 15 kHz
Audio Output Level (Max.)	Balanced (XLR socket): -20dBu Unbalanced (1/4" jack socket): 10dBu
Power Supply	12 VDC 500mA
Dimensions	215 (W) x 39 (H) x 102 (D) mm (excluding antenna and BNC)
Weight	480g



### Available Systems

S4.04-HD-EB-GD5	Handheld Microphone Set	Channel 70
S4.04-B-EB-GD5	Beltpack Microphone Set	Channel 70
S4.04-L-EB-GD5	Lapel Microphone Set (LP2)	Channel 70
S4.04-A-EB-GD5	Standard Headset System (MIC-SJ33)	Channel 70
S4.04-W-EB-GD5	Aerobic Headset System (MIC-SJ66, AB-1000)	Channel 70
S4.04-T-EB-GD5	Theatre Headset System (MIC-SJ22-P)	Channel 70
S4.04-E-EB-GD5	Earworn System (MIC-SJEM77-P)	Channel 70

### S4.04-HDX-EB-WD5

Handheld Transmitter

- Dynamic Microphone with cardioid pattern
- Single AA transmitter battery life of approx 10 hours.

RF Carrier Power	10 mW
Audio Frequency Response	80 Hz -15 kHz
Audio Input Level	140 dBSPL (maximum)
Battery Life	Approx. 10 hours
Power Supply	1 AA size alkaline battery, 1.5 V
Finish	Resin, coating
Dimensions	250 x ø55 mm
Weight	245g (with battery)



### S4.04-BTX-EB-WD5

Beltpack Transmitter

- Locking 3.5mm jack
- Integral switch for selection between instrument and microphone
- Single AA transmitter battery life of approx 10 hours.

RF Carrier Power	10 mW
Audio Frequency Response	50 Hz -15 kHz
Audio Input Level	-6 dBV (maximum), mic gain 0dB
Battery Life	Approx. 10 hours
Power Supply	1 AA size alkaline battery, 1.5 V
Finish	Resin, coating
Dimensions	62 (W) x 100 (H) x 25 (D) mm (with clip)
Weight	85g (with battery)





# S4.10 Series - 10 Channel Wireless System

The S4.10 Series is designed to make multi channel wireless as simple as possible. It can be used with a wide range of microphones, or musical instruments making it the perfect solution for amateur and semi professional musicians and theatre performers.

## PLL Technology

Fully synthesized PLL quartz tuning technology

## Long Battery Life

A single AA battery gives up to 10 hours of quality performance with a range of up to 100 metres



## 10 Simultaneous Channels

Up to 10 simultaneous channels can be used on Channel 38, and 4 licence free on Channel 70



# S4.10 Series

## 16 Channel Wireless System

### S4.10-RXA-EB

#### Receiver

- › 16 selectable frequencies available
- › Up to 10 simultaneous channels
- › Fully synthesised PLL quartz tuning technology
- › Receiver LED's show AF peak level, RF level & diversity channel A or B
- › Diversity operation with detachable antenna
- › 19" rack mount option for one or two receivers

Diversity Reception	Antenna Diversity
Sensitivity	10uV at 45dBA, S/N
Squelch	Tone SQ, Carrier SQ, Noise SQ
Audio Frequency Response	50Hz - 15 kHz
Audio Output Level (Max.)	Balanced (XLR socket): -20dBu Unbalanced (1/4" jack socket): 10dBu
Power Supply	12 VDC 500mA
Dimensions	215 (W) x 39 (H) x 102 (D) mm (excluding antenna and BNC)
Weight	480g

Options:  
S4.10-RXA-EB-GD4 - CH70  
S4.10-RXA-EB-GG3 - CH38

### S4.10-HDX-EB

#### Handheld Transmitter

- › Dynamic Microphone with cardioid pattern
- › Single AA transmitter battery life of approx 10 hours.

RF Carrier Power	10 mW
Audio Frequency Response	80 Hz -15 kHz
Audio Input Level	140 dB SPL (maximum)
Battery Life	Approx. 10 hours
Power Supply	1 AA size alkaline battery, 1.5 V
Finish	Resin, coating
Dimensions	250 x ø55 mm
Weight	245g (with battery)

Options:  
S4.10-HDX-EB-WD4 - CH70  
S4.10-HDX-EB-WG3 - CH38



### Available Systems

S4.10-HD-EB-GD4	Handheld Microphone Set	Channel 70
S4.10-B-EB-GD4	Beltpack Microphone Set	Channel 70
S4.10-L-EB-GD4	Lapel Microphone Set (LP2)	Channel 70
S4.10-A-EB-GD4	Aerobic Headset System (MIC-SJ66, AB-1000)	Channel 70
S4.10-W-EB-GD4	Theatre Headset System (MIC-SJ22-P)	Channel 70
S4.10-E-EB-GD4	Earworn System (MIC-SJEM77-P)	Channel 70

S4.10-HD-EB GG3	Handheld Microphone Set	Channel 38
S4.10-B-EB GG3	Beltpack Microphone Set	Channel 38
S4.10-L-EB GG3	Lapel Microphone Set	Channel 38
S4.10-A-EB-GD4	Aerobic Headset System (MIC-SJ66, AB-1000)	Channel 70
S4.10-W-EB-GD4	Theatre Headset System (MIC-SJ22-P)	Channel 70
S4.10-E-EB-GD4	Earworn System (MIC-SJEM77-P)	Channel 70

### S4.10-BTX-EB

#### Beltpack Transmitter

- › Locking 3.5mm jack
- › Integral switch for selection between instrument and microphone
- › Single AA transmitter battery life of approx 10 hours.

RF Carrier Power	10 mW
Audio Frequency Response	50 Hz -15 kHz
Audio Input Level	-6 dBV (maximum), mic gain 0dB
Battery Life	Approx. 10 hours
Power Supply	1 AA size alkaline battery, 1.5 V
Finish	Resin, coating
Dimensions	62 (W) x 100 (H) x 25 (D) mm (with clip)
Weight	85g (with battery)

Options:  
S4.10-BTX-EB-WD4 - CH70  
S4.10-BTX-EB-WG3 - CH38





# S5.3 Series - 12 Channel Wireless System

The S5.3 Series is widely used by semi professional and professionals in theatre, concerts and broadcasting thanks to it's easy to use and reliable performance. Enabling up to 12 simultaneous channels to run at once, the S5.3 Series boasts an exceptional performance/cost ratio for venues of any size.

## UHF Dual Conversion Receiver

Fully synthesized UHF dual conversion receiver

## Long Battery Life

A single AA battery gives up to 10 hours of quality performance with a range of up to 100 metres

## 12 Channels

Up to 12 channels can run simultaneously





# S5.3 Series

## 12 Channel Wireless System

### S5.3-RX

Receiver

- True diversity operation
- Up to 640 selectable frequencies
- USB based computer monitoring
- Frequency scan function
- Integral tone grip/noise and signal strength mute circuit for protection against external interference
- Simple programming of transmitter with built-in Infra-red data link
- Clear and intuitive LCD displays
- Professional metal enclosure

Power Consumption	300 mA (13V DC)
Diversity System	Space Diversity (true diversity)
Audio Output	Line: -22dB / Mic: 62dB
Antenna Phantom Power	9V DC, 30 mA (max)
Receiving Sensitivity	0 bD $\mu$ V or less(12dB SINAD)
Squelch Sensitivity	6-36dB $\mu$ V variable
S/N Ratio	Over 110dB (A-weighted)
Harmonic Distortion	Under 1% (typical)
Frequency Response	50Hz-20kHz, +3dB
Dimensions	210(W) x 46(H) x 210(D) mm (excluding antenna)
Weight	1.3kg

Options:  
S5.3-RX-D2W - CH70  
S5.3-RX-G2W - CH38



### Available Systems

S5.3-HC-D2U	Handheld Condenser Microphone Set	Channel 70
S5.3-HD-D2U	Handheld Dynamic Microphone Set	Channel 70
S5.3-B-D2U	Beltpack Microphone Set	Channel 38
S5.3-E-D2U	Ear worn Microphone Set	Channel 70
S5.3-T-D2U	Theatre Microphone Set	Channel 70
S5.3-W-D2U	Aerobic Microphone Set	Channel 70
S5.3-A-D2U	Active Head worn Microphone Set	Channel 70

S5.3-HC-G2U	Handheld Condenser Microphone Set	Channel 38
S5.3-HD-G2U	Handheld Dynamic Microphone Set	Channel 38
S5.3-B-G2U	Beltpack Microphone Set	Channel 38
S5.3-E-G2U	Ear worn Microphone Set	Channel 38
S5.3-T-G2U	Theatre Microphone Set	Channel 38
S5.3-W-G2U	Aerobic Microphone Set	Channel 38
S5.3-A-G2U	Active Head worn Microphone Set	Channel 38

### S5.3-HDX

Handheld Transmitter

- Simple programming of transmitter with built-in infra-red data link
- Frequency and Power lock facility
- Single AA transmitter battery life of approx 10 hours.
- Integral antenna
- Clear and intuitive LCD display
- Colour coded ID Band
- Professional metal enclosure

Options:  
S5.3-HDX-D2W - CH70 Dynamic  
S5.3-HCX-D2W - CH70 Condenser  
S5.3-HDX-G2W - CH38 Dynamic  
S5.3-HCX-G2W - CH38 Condensor

RF Carrier Power	Max. 30mW or less
Maximum Input Level	146dB SPL
Audio Frequency Response	60 Hz - 20kHz
Dynamic Range	110dB or more
Battery Life	Approx 10 hours
Power Supply	Single AA battery
Dimensions	247.9 x $\varnothing$ 50 mm
Weight	380g (with battery)



### S5.3-BTX

Beltpack Transmitter

- Credit card sized beltpack
- Simple programming of transmitter with built in infrared data link
- Frequency and power lock facility
- Single AA battery life of approx 10 hours
- Detachable antenna
- Clear and intuitive LCD display
- Professional metal enclosure

RF Carrier Power	Max. 30 mW or less
Modulation System	PLL Synthesizer
Maximum Input Connector	120dB SPL
Audio Input Connector	TA-4 (mini XLR 4 pins)
Power Supply	Single AA battery
Battery Life	Approx. 10 hours
Dimensions	55(W) x 80(H) x 22(D) mm
Weight	140g with battery

Options:  
S5.3-BTX-D2W - CH70  
S5.3-BTX-G2W - CH38





# S5.5 Series - 24 Channel Wireless System

The S5.5 Series is a multi channel UHF product that enables you to run up to 24 channels simultaneously. Suitable for professional musicians, theatre productions and broadcasting, the S5.5 can be used with a wide range of microphones or an instrument cable. It's professional metal enclosure provides a reliable and professional performance at a price that is hard to match.

## UHF Dual Conversion Receiver

Fully synthesized UHF dual conversion receiver

## Long Battery Life

A single AA battery gives up to 10 hours of quality performance with a range of up to 100 metres

## 24 Channels

Up to 24 channels can run simultaneously





# S5.5 Series

## 24 Channel Wireless System

### S5.5-RX

Receiver

- True diversity operation
- Up to 1400 selectable frequencies
- USB based computer control and monitoring for all aspects of performance
- Frequency scan function
- Integral tone grip/noise and signal strength mute circuit for protection against external interference
- Simple programming of transmitter with built-in Infra-red data link
- Clear and intuitive LCD displays
- EQ and phase reversal
- Professional metal enclosure
- Also available on Channel 65

Power Consumption	300 mA (13V DC)
Diversity System	Space Diversity (true diversity)
Audio Output	Line: -22dB / Mic: 62dB
Antenna Phantom Power	9V DC, 30 mA (max)
Receiving Sensitivity	0 bD $\mu$ V or less(12dB SINAD)
Squelch Sensitivity	6-36dB $\mu$ V variable
S/N Ratio	Over 110dB (A-weighted)
Harmonic Distortion	Under 1% (typical)
Frequency Response	50Hz-20kHz, +3dB
Dimensions	210(W) x 46(H) x 210(D) mm (excluding antenna)
Weight	1.3kg

Options:  
S5.5-RX-D2W - CH70  
S5.5-RX-G2W - CH38



### S5.5-HDX

Handheld Transmitter

- Simple programming of transmitter with built-in infra-red data link
- Frequency and Power lock facility
- Single AA transmitter battery life of approx 10 hours.
- Integral antenna
- Clear and intuitive LCD display
- Colour coded ID Band
- Professional metal enclosure

Options:  
S5.5-HDX-D3W - CH70 Dynamic  
S5.5-HCX-D3W - CH70 Condenser  
S5.5-HDX-G1W - CH38 Dynamic  
S5.5-HCX-G1W - CH38 Condensor

RF Carrier Power	Max. 30mW or less
Maximum Input Level	146dB SPL
Audio Frequency Response	60 Hz - 20kHz
Dynamic Range	110dB or more
Battery Life	Approx. 10 hours
Power Supply	Single AA battery
Dimensions	247.9 x $\varnothing$ 50 mm
Weight	380g (with battery)



### S5.5-BTX

Beltpack Transmitter

- Credit card sized beltpack
- Simple programming of transmitter with built in infrared data link
- Frequency and power lock facility
- Single AA battery life of approx 10 hours
- Detachable antenna
- Clear and intuitive LCD display
- Professional metal enclosure

RF Carrier Power	Max. 30 mW or less
Modulation System	PLL Synthesizer
Maximum Input Connector	120dB SPL
Audio Input Connector	TA-4 (mini XLR 4 pins)
Power Supply	Single AA battery
Battery Life	Approx. 10 hours
Dimensions	55(W) x 80(H) x 22(D) mm
Weight	140g with battery

Options:  
S5.5-BTX-D3W - CH70  
S5.5-BTX-G1W - CH38



### Available Systems

S5.5-HC-D3U	Handheld Condenser Microphone Set	Channel 70	S5.5-HC-G1U	Handheld Condenser Microphone Set	Channel 38
S5.5-HD-D3U	Handheld Dynamic Microphone Set	Channel 70	S5.5-HD-G1U	Handheld Dynamic Microphone Set	Channel 38
S5.5-B-D3U	Beltpack Microphone Set	Channel 38	S5.5-B-G1U	Beltpack Microphone Set	Channel 38
S5.5-E-D3U	Ear worn Microphone Set	Channel 70	S5.5-E-G1U	Ear worn Microphone Set	Channel 38
S5.5-T-D3U	Theatre Microphone Set	Channel 70	S5.5-T-G1U	Theatre Microphone Set	Channel 38
S5.5-W-D3U	Aerobic Microphone Set	Channel 70	S5.5-W-G1U	Aerobic Microphone Set	Channel 38
S5.5-A-D3U	Active Head worn Microphone Set	Channel 70	S5.5-A-G1U	Active Head worn Microphone Set	Channel 38



# S2.4 Series - 16 Channel Digital Wireless System

The S2.4 Series is a 16 channel digital wireless microphone system. It has adopted ISM 2.4GHz Digital Audio Frequency, which automatically filters out radio interference. Sound is clear and natural thanks to the comprehensive application of Digital Audio Processing Technology, whilst the smart .ID code Identifying Synchronisation Technology makes installation much easier.

## 16 Channels

Up to 16 selectable channels, available as single and dual channel systems

## ISM 2.4GHz Digital Audio Frequency

ISM 2.4GHz digital audio frequency automatically filters out radio interference

## Long Battery Life

Two AA batteries lasts for up to 5 hours





# S2.4 Series

## 16 Channel Digital Wireless System

### S2.4-RX

Receiver

- 2.4GHz ISM Digital Wireless Microphone System
- Up to 2 simultaneous channels
- GFSK Modulation
- No RF noise
- Can transmit up to a distance of 30m
- 16 bit, 38.4kHz audio format
- Single system comes with either a handheld microphone or a beltpack transmitter
- Dual receiver system comes with both a handheld microphone and a beltpack transmitter

Carrier Frequency	2.404-2.474 GHz
Available Channels	16
Band Range	2MHz
Dynamic Range	85dB
Total Harmonic Distortion	<0.1%
Power Supply	DC17V
Consumption Power	2W
Signal to Noise Ratio	>95dB
Receiving Sensitivity	-80dBm

Options:  
S2.4-RX1-G3 - Single Receiver System  
S2.4-RX2-G3 - Dual Receiver System



Single Receiver

Dual Receiver

### S2.4-HDX

Handheld Transmitter

- Simple programming of transmitter with built-in infra-red data link
- Frequency and Power lock facility
- Battery life of approx 5 hours.
- Clear and intuitive LCD display
- Professional metal enclosure

RF Carrier Power	10mW
Modulation Type	GFSK
Ultraharmonics	<20dB
Battery Life	Approx 5 hours
Power Supply	2 x AA battery
Dimensions	
Weight	



### S2.4-BTX

Beltpack Transmitter

- Credit card sized beltpack
- Simple programming of transmitter with built in infrared data link
- Frequency and power lock facility
- Battery life of approx 5 hours
- Detachable antenna
- Clear and intuitive LCD display
- Professional metal enclosure

RF Carrier Power	10mW
Modulation System	GFSK
Ultraharmonics	<20dB
Power Supply	2 x AA battery
Battery Life	Approx. 5 hours





# S4.16 Series - In Ear Monitoring System (IEM)

The S4.16 Series IEM is available in channels 38 and 70 and broadcasts up to 8 simultaneous channels making it the perfect choice for professional and semi-professional musicians. Encased in a rugged metal frame, the S4.16 in ear monitoring system is sturdy yet extremely reliable, with a long battery life and a lightweight, durable bodypack receiver with infrared interface making pairing and programming simple and quick.

**PLL Technology**  
Fully PLL synthesized design

**Long Battery Life**  
2 AA batteries give up to 8 hours of battery life under normal operating conditions

## 8 Simultaneous Channels

Broadcasts up to 8 simultaneous channels.





# S4.16 Series

## In Ear Monitoring System

### IEM-S4.16-TX

Transmitter

- PLL synthesized design
- Frequency agility over a 24MHz bandwidth, with 16 preprogrammed frequencies
- Dynamic circuitry deliver outstanding S/N ratio
- Selectable stereo or mono audio output
- Bright LCD channel display
- Dynamic limited circuitry
- Highly efficient power consumption circuitry ensures long operating hours from two AA batteries

Band Width	24MHz
Oscillation	PLL synthesized
Channel Separation Interval	25kHz
Frequency Stability	0.005% 0°C - 50°C
Modulation Mode	FM stereo
Transmitter Output Power	low <10mW High <100mW
Spurious Rejection	<4nW
Stereo Separation	>45dB
Maximum Deviation Range	+/-40kHz
Frequency Response	50 - 15kHz
Dimensions	210 (L) x 206 (W) x 44(H) mm
Rating Power	5W
Weight	1.1kg

Options:  
IEM-S4.16-TX D04 - CH70  
IEM-S4.16-TX G01- CH38



#### Headphones and Pouch Included:



### Available Systems

IEM-S4.16 G01	Channel 38
IEM-S4.16 D04	Channel 70

### IEM-S4.16-RX

Beltpack Receiver

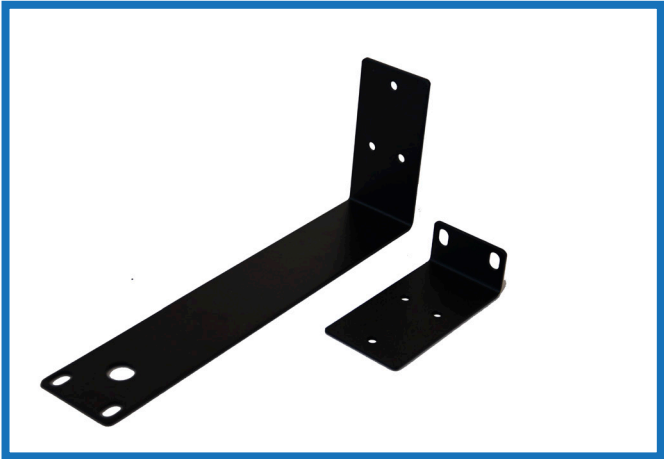
Band Width	24MHz
Oscillation	PLL synthesized
Channel Separation Interval	25kHz
Frequency Stability	0.005% 0°C - 50°C
Modulation Mode	FM stereo
Frequency Response	80Hz - 15kHz
Stereo Separation	>45dB
Maximum Deviation Range	+/-68kHz
Output Jack	3.5mm stereo headphone jack
Power	AA battery x 2
Battery Life	8 hours (under normal operating conditions)
Antenna	Fixed 1/2
Dimensions	88(L) x 65(W) x 32(H) mm
Weight	105g

Options:  
IEM-S4.16-RX D04 - CH70  
IEM-S4.16-RX G01 - CH38

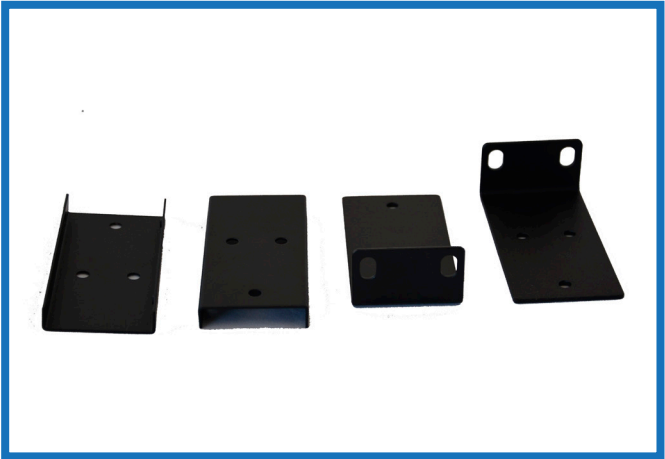


#### Rack Mount Brackets:

##### For Single System: MB-IEM-1



##### For two Systems: MB-IEM-2





# Rack 'n' Ready Systems

**Simple Infra-red Programming**  
Simple programming of transmitters via infra-red

The S4.10, S5.3 and S5.5 Wireless Microphone Systems are all available in Trantec's Rack 'n' Ready format. These robust and compact racks are available in 4, 6, 8, or 12 channel packages and are the perfect solution for schools to theatres, concert halls and Houses of Worship.



## Wide Range of Options

Comes in either 4, 6, 8 or 12 channel packages, with your choice of beltpack or handheld transmitters in any combination

## Up to 24 Simultaneous Channels

Can broadcast up to 24 simultaneous channels of true diversity operation



# S5.3 and S5.5 Series Rack 'n' Ready Systems

## Cube



- Up to 12 (S5.3) or 24 (S5.5)
- simultaneous channels of true diversity operation
- USB based computer monitoring
- Simple programming of transmitters via infra-red
- Credit card sized beltpack transmitters
- Single AA transmitter battery life of approx. 10 hours
- Professional metal enclosure on both transmitters and receivers
- 19" professional flight case with built in antennae distribution and power supply as standard

### Assembled Package Includes:

- 4, 6, 8, or 12 receivers
- 4, 6, 8, or 12 transmitters in any combination of beltpack or handheld
- Antenna distribution unit
- Power supply
- Rack mounting trays
- 2 x antennae
- 19" professional flight case

### Optional Remote Antenna Kit Includes:

- 2 x 10m antenna cables
- 2 x antenna head amplifiers
- 2 x antenna stands



## 4 Way



## 8 Way



## 6 Way



## 12 Way



**S4.10 Rack 'n' Ready  
Systems Coming Soon**



# Lavalier Microphones

## LP-2

The LP-2 miniature lavalier microphone offers superb audio quality combined with stylish looks at an affordable price.



The robustly designed LP-2 is a high quality microphone consisting of an electret transducer capsule exhibiting an omnidirectional characteristic. It has been specifically designed to suit the requirements of everyday applications and is particularly suitable for voice applications, where highly intelligible speech is required. The LP-2 is available in black, and has a permanently attached cable.

Type	Omnidirectional electret condenser
Nominal Impedance	3000 ohms
Max SPL	>120dB
Operating Voltage	2-10 volts min/max
Current Consumption	50uA
Frequency Response	60Hz-16kHz +3dB
Cable Length	1500mm
Colours Available	Black

## LM-55

The LM-55 electret sub-miniature microphone capsule has been provided with a moulded plastic housing and cable for convenient mounting on lapel or tie for communications, public address, music recording and other applications.

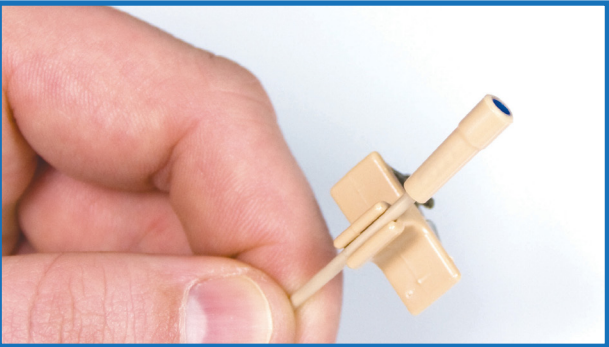


The LM-55 features a flat, extended frequency response suitable for reproduction of voice or musical instruments. A 1.5 metre long black shielded cable of 2.5mm diameter is provided in the basic configuration. This cable includes two wires plus a spiral woodshield, which are soldered to the microphone capsule. A composite steel retainer plus moulded elastic strain relief provide a very rugged miniature package. Noise transmission from handling and clothing movement is very low. The LM-55 has a wide band omnidirectional polar pattern. Internal RFI suppression is included.

Type	Omnidirectional electret condenser
Nominal Impedance	4700 ohms
Max SPL	>120dB
Operating Voltage	2-10 volts min/max
Current Consumption	50uA
Frequency Response	30Hz-16kHz +3dB
Cable Length	1500mm
Colours Available	Black

## LM-212

The LM-212 high quality lavalier microphone has been designed with the professional in mind. Its sub-miniature construction, together with its durable microphone clip makes it an ideal partner for all area of live work.



It can be used either as a microphone for instrument pick-up or for delivering highly intelligible speech or vocals. The extremely low profile of the LM-212 enables this microphone to be used in places where others have failed due to their more obtrusive size. With an exceptionally low physical profile, it can withstand the penetration of moisture and make-up, and has the same membrane construction as its sister product the HM-22. Whether used in the hair, on the face or as a body-worn lavalier, this microphone will withstand the everyday rigours of production.

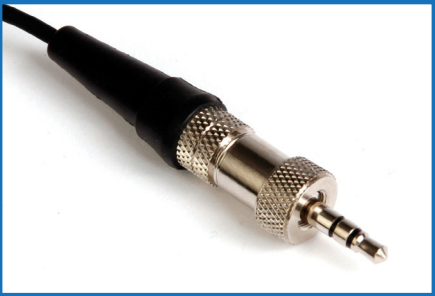
Type	Omnidirectional electret condenser
Nominal Impedance	4400 ohms
Max SPL	>120dB (high SPL version available)
Operating Voltage	2-10 volts min/max
Current Consumption	12-25uA min/max
Frequency Response	40Hz-16kHz +3dB
Cable Length	1200mm
Colours Available	Black, Beige



X Series = 4 Pin Mini XLR



LP/SJ Series = 3.5mm Screw Jack



### Model Number

	LP-2	LM-55	LP-212
S4.04/10	MIC-LP2	MIC-SJ55	MIC-SJ212
S5.3/5.5	MIC-X2	MIC-X55	MIC-X212

TS Versions are still available  
SJ = Mini jack  
X = Mini XLR

# Headworn Microphones

## HM-33

The HM-33 has been designed primarily for the active professional who needs hands-free operation. Suitable for people in sports, journalism, event organising and restaurant applications.



The headband is perfect for those applications which require a high performance cost-effective solution. Supplied with foam windshield.

Type	Electret condenser
Nominal Impedance	3300 ohms
Max SPL	>120dB
Frequency Response	20Hz-16kHz
Cable Length	1500mm
Colours Available	Black

## HM-66

The HM-66 has been designed primarily with the sports and aerobics industry in mind and is therefore built to withstand the everyday rigours of an active lifestyle.



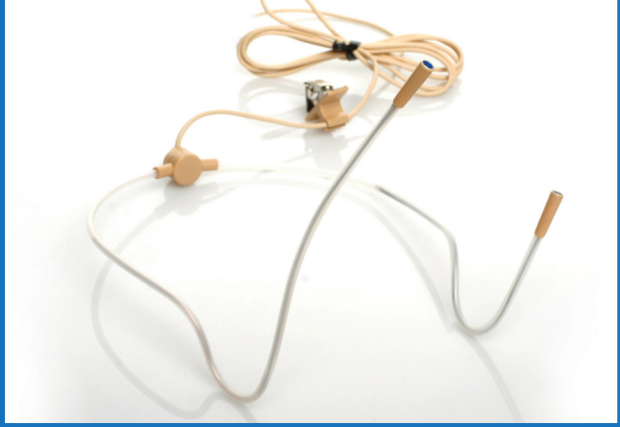
The construction of this headband microphone offers a high degree of protection against the ingress of sweat. Precise placement is obtained with the 4mm diameter flexible gooseneck, and the condenser capsule is highly efficient at noise cancellation - helping prevent feedback or interference from crowd noise etc. This slim line Aerobic Headset is available in a choice of the following colours: Black, Blue and Yellow.

Type	Super cardioid electret condenser
Nominal Impedance	3000 ohms
Max SPL	>125dB
Operating Voltage	2-10 volts min/max
Current Consumption	50uA
Frequency Response	60Hz-16kHz +3dB
Cable Length	1500mm
Colours Available	Black, Blue, Yellow



## HM-22

The HM-22 is a high quality headband microphone, which not only claims to be one of the smallest but also one of the lightest headband microphones on the planet. It has been designed to be worn around the head and to be hidden discreetly under the hair.



The headband is engineered from a hard wearing nylon composite, which has been specially selected to withstand robust use and yet can be adjusted to fit any user's head and ear shape. The high quality microphone, optimised for speech and vocals, is mounted on a boom that can be bent into shape to allow for optimum sound quality. A small membrane is inserted into the capsule housing which protects the capsule from moisture, make-up and any other dirt and can be replaced cheaply and effectively to allow the microphone to perform consistently at its best.

Type	Omnidirectional electret condenser
Nominal Impedance	4400 ohms
Max SPL	>120dB (high SPL version available)
Operating Voltage	2-10 volts min/max
Current Consumption	12-25uA min/max
Frequency Response	40Hz-16kHz +3dB
Cable Length	1200mm
Colours Available	Black, Beige

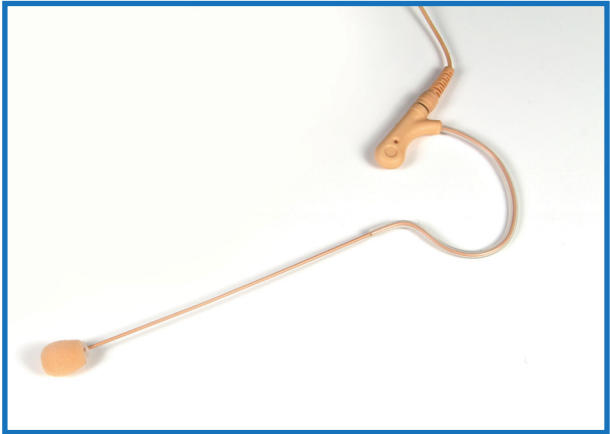


LP/SJ Series = 3.5mm Screw Jack



## EM-77 Ear worn Mic

The EM-77 is a high quality single ear microphone. Its lightweight construction allows the user complete freedom of movement making it ideal for theatre, conference and educational use.



The single ear microphone features a highly configurable and discreet capsule making it ideal for countless applications.

Element	Black electret condenser
Polar Pattern	Omnidirectional
Frequency Response	20Hz-20kHz +3dB
Sensitivity	5mV/Pa +/-3dB
Operating Voltage	1.5-10 volts D.C
Cable Length	1200mm
Colours Available	Beige

X = 4 Pin Mini XLR



	Model Number	HM-33	HM-66	HM-22	EM-77
S4.04/S4.10		MIC-SJ33	MIC-SJ66	MIC-SJ22	MIC-SJEM77
S5.3/5.5		MIC-X33	MIC-X66	MIC-X22	MIC-EM77

TS Versions are still available  
SJ = Mini jack  
X = Mini XLR



# Antenna Distribution

## S5-ADU Antenna Distributor

The S5-ADU allows a single pair of antennae to feed up to 4 receivers. For larger systems (up to 12 channels), additional ADUs can be cascaded.



Product code: S5-ADU

## WD-4800 Antenna Distributor

The WD-4800 is designed to be used in conjunction with VHF/UHF band systems. It comes with 2 channels, in which 2 input signals are mixed and distributed to 4 outputs. The WD-4800 also has 4 DC power distribution outputs.



Product code: WD-4800



## S5-ADU Head Amplifier

An RF amplifier specifically designed to be used with 10-20 metre length cable runs of RG58/URM43 connecting to remote antennae

Product code: ACC-S4.16HA



## The Passive Antenna Splitter

Allows 1 x RF feed to be split in order to feed 2 outputs. Connector: BNC type. Isolation: 25dB Insertion Loss: 5dB. Frequency Range: 500MHz-1GHz

Product code: ACC-SPLIT-2W

# Remote Antenna



## UHF Paddle Antenna

UHF directional antenna, active and passive models available.

Product codes:  
ANT-UHF-PADA (active)  
ANT-UHF-PADP (passive)



## UHF Reflecting Dipole Antenna

Terminated with a female N-Type connector. Supplied with spring clamps for attaching to fences, trees etc.

Product codes:  
ANT-6000RD694B (606-782 MHz)  
ANT-6000RD830B (798-865 MHz)



## UHF Ground Plane Antenna

50 ohm UHF ground plane antenna, with omnidirectional coverage. Terminated with a female N-type connector and mountable to a stand using kit supplied.

Product codes:  
ANT-UHF-GP694B (606-782MHz)  
ANT-UHF-GP830B (798-865MHz)



## UHF Wall Mount Antenna

Cable loss can be compensated for by a built-in RF signal booster. The YW-4500 is a dipole antenna designed to be installed indoors.

Product Code: YW-4500

# Receiver Antenna

For S4.10 receiver & rack 'n' Ready series



Product codes:  
ANT-S4.16 RX-D (830-865 MHz)  
ANT-S4.16 RX-G (606-638 MHz)

For S5.3 & S5.5



Product codes:  
ANT-S5 RX-D (830-865 MHz)  
ANT-S5 RX-G (606-638 MHz)

# Transmitter Antenna



## Whip Antenna

For S4 and S5 Series UHF belt pack transmitters.

Product codes:  
ANT-S4BTX-D (830-865MHz)  
ANT-S4BTX-G (606-638MHz)



## Helical Antenna

For S4.04 and S4.10 UHF hand-held transmitters.

Product codes:  
ANT-S4 HDX-D (830-865MHz)  
ANT-S4 HDX-G (606-638MHz)

# Power Supplies



## UK Power Supply for S4/S5 Series Receiver

Output 13V DC 300mA

Product code: PS-S115-UK



## European Power Supply for S4/S5 Series Receiver

Output 13V DC 300mA

Product code: PS-S115-EU



## Power Supply for S4/S5 Series Receiver

30 Watt, 15VDC (2A). For use with our 5 way splitter cable.

Product code: PS-RACK-PDU



## 5 Way Splitter Cable

5 way link cable allowing you to connect multiple receivers together.

Product code: LD-DC-5WAY



## DC Extension Cable 1.4m

Product code: LD-DC-EXT



# Microphone Windshields



Foam  
Windshield  
for LM-55  
Product code:  
ACC-5200WS



Foam  
Windshield  
for HM-33  
Product code:  
ACC-33WS



Foam  
Windshield  
for HM-66  
Product code:  
ACC-66WS



Foam  
Windshield  
for HM-22  
Product code:  
ACC-WS-BGE



Foam  
Windshield  
for HM-22  
Product code:  
ACC-WS-BLK

# Tie Clips



Spare Tie Clip  
for LP-2  
Product code:  
ACC-LP2-CLIP



Spare Tie Clip  
for LM-55  
Product code:  
ACC-5200-TC



Spare Tie Clip  
for HM-22P &  
LM-212  
Product code:  
ACC-TC-BGE



Spare Tie Clip  
for HM-22P &  
LM-212  
Product code:  
ACC-TC-BLK



Spare Tie  
Clip for X2  
Product code:  
ACC-X2-CLIP

# Connectors



3.5mm Screw Jack Connector  
Product code: PLG-LMJP



4 Pin Mini XLR Connector (TA-4)  
Product code: PLG-MXLR

# Neoprene Aerobic Belt

Suitable for S4 Series backpack transmitters.  
Product code: ACC-AB1000



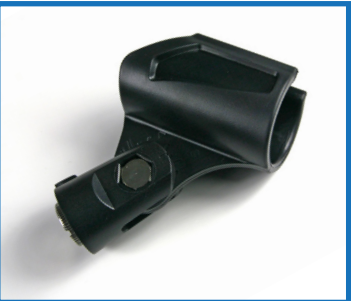
# Leather Belt Pouch

Added protection for your backpack with this long lasting protective leather pouch. Suitable for S5 Series backpack transmitters.  
Product code: ACC-S5POUCH



# Microphone Clip

Product code: 1080505210



# Microphone Stand

Product code: ACC-MSTAND



# Trantec Cases

## ABS Carry Case

Internal foam has been precut to hold either S4 or S5 wireless systems.  
Product code: ACC-CASEA



## 19" Professional Flight Case

7mm birch ply, finished in black hexagrip. 330mm sleeve with butterfly catches & recess handles fitted as standard.



## 4U, 19" Professional Flight Case

Product code: ACC-4U-CASE

## 5U, 19" Professional Flight Case

Product code: ACC-5U-CASE

## 6U, 19" Professional Flight Case

Product code: ACC-6U-CASE

## 8U, 19" Professional Flight Case

Product code: ACC-8U-CASE



# Antenna Cables

## BNC-BNC Antenna Extension Cable

Using RG58 (5dB/10m) 50 ohm coaxial cable.  
Available in the following pre-made lengths: 37cm, 5m & 10m  
Product codes:  
37cm: LD-BNC-BNC-37  
5m: LD-BNC-BNC-05M  
10m: LD-BNC-BNC-10M



## S4 & S5 Series Antenna Extension Cable

Using BNC Panel Mount Socket - BNC Plug with 35cm RG58 50 ohm coaxial cable.  
Product code: LD-S5-ANT



## S4 Series Antenna Extension Cable

BNC panel mount socket BNC plug using 35cm RG58 50 ohms coaxial cable  
Product code: LD-S5-ANT-BNC



# Instrument Cables

## Guitar Cable for use with S4.04 & S4.10 Series

Instrument cable terminated with 3.5mm Screw Jack - 6.3mm Mono Jack Plug, 1.3m length  
Product code: LD-SJ-JAC



## Guitar Cable for use with S5.3 & S5.5 Series

Instrument cable terminated with 4 pin mini XLR (TA-4) - 6.3mm Mono Jack Plug, 1.3m length  
Product code: LD-X-JAC



# Rack Mount Kits

## 1U 19" BNC Rack Mount Panel

For mounting 2 x BNC panel mount sockets.  
Product code: PAN-1U19-BNC



## 1U 19" Blank Panel

Product code: MW-1U-BLANK



## 1U 19" Rack Mount Kit for S5 Receiver

This kit will enable you to mount 1 x S5 receiver in a 1U, 19" rack space  
Product code: ACC-S5RX-MB3



## 1U 19" Rack Mount Kit for S5 Receiver

This kit will enable you to mount 1 x S5 receiver in a 1U, 19" rack space  
Product code: ACC-S5RX-MB1



## 2U Rack Drawer

Drawer for storage, provided with a lock and key  
Product code: HA2URD10



## 1U 19" Rack Mount Kit for S5 Receiver

This kit will enable you to mount 2 x S5 receiver side by side  
Product code: ACC-S5RX-MB2



# Glossary

**ADU**  
Antenna Distribution Unit

**Channel 38**  
A recently introduced frequency channel dedicated to UHF Wireless Systems

**Channel 70**  
A licence free frequency band available for UHF Wireless

**Condenser Microphone**  
These microphones produce a crisper, more defined sound and are better at capturing subtle details of delicate voices and instruments. They also require power to operate, which is supplied by the battery in a handheld wireless transmitter.

**Dynamic Microphone**  
These are resilient microphone elements with great sound and is ideal for rugged regular use.

## Squelch/RSSI Set Up

**Step one**  
Turn off the transmitter and make note of any interference that is present by monitoring the receiver RF bar graph or audio output

**Step two**  
Turn the squelch control clockwise until the interference disappears. In extreme cases it may not be possible to remove the unwanted interference and in this case it is recommended you try an alternative channel

*Note: The squelch control affects the operating range of the system and with the squelch set to maximum, the range will be significantly reduced.*

**Cardioid**  
Microphones pick up sound from the front and side of the microphone and reduces the chance of any feedback

**Omnidirectional**  
Microphones are sensitive and pick up sound from all direction, often a feature with lavalier microphones

**RF**  
Radio Frequency

**SPL**  
Sound Pressure Level

**Squelch**  
The function which silences the unwanted background noise from your wireless system

## How To Properly Set The Wireless “Gain”

**Step one**  
Disconnect the wireless receiver from your mixing console or PA system

**Step two**  
Set your transmitter signal so you have strong signal without clipping. If the signal is too low the result will be an increase in background noise. Adjust the control to achieve the best signal quality

**Step three**  
Connect your wireless receiver to your mixer or PA System and adjust the input gain to the appropriate level

# Channel & Frequency Allocation

CHANNEL	21	22	23	224	25	26	27	28	29	30
FREQ RANGE	470-478 MHz	478-486 MHz	486-494 MHz	494-502 MHz	502-510 MHz	510-518 MHz	518-526 MHz	526-534 MHz	534-542 MHz	542-550 MHz
CHANNEL	31	32	33	34	35	36	37	38	39	40
FREQ RANGE	550-558 MHz	558-566 MHz	566-574 MHz	574-582 MHz	582-590 MHz	590-598 MHz	598-606 MHz	606-614 MHz	614-622 MHz	622-630 MHz
CHANNEL	41	42	43	44	45	46	47	48	49	50
FREQ RANGE	630-638 MHz	638-646 MHz	646-654 MHz	654-662 MHz	662-670 MHz	670-678 MHz	678-686 MHz	686-694 MHz	694-702 MHz	702-710 MHz
CHANNEL	51	52	53	54	55	56	57	58	59	60
FREQ RANGE	710-718 MHz	718-726 MHz	726-734 MHz	734-742 MHz	742-750 MHz	750-758 MHz	758-766 MHz	766-774 MHz	774-782 MHz	782-790 MHz
CHANNEL	65	70								
FREQ RANGE	822-830 MHz	863-865 MHz								

- Channels 21-30 - PMSE is interleaved with TV transmissions throughout UK
- Channels 31-37 (600 MHz band) Ofcom has announced that new services will be launched in these channels but that PMSE will continue to have access.
- Channels 38 - PMSE access to Channel 38 between 606.5 MHz and 613.5 MHz remains
- Channels 39-60 - PMSE is interleaved with TV transmissions throughout the UK
- Channels 65 - PMSE has released 822-830 MHz to be included as part of the Channel 38 licence
- Channel 70 - PMSE access remains unchanged. 863-865 MHz is still available as licensed exempt spectrum

## Frequency Options

Licence Free Option	Licensed Options	Restricted Frequencies
<b>Channel 70 - 863-865MHz</b>  Channel 70 is a licence free frequency range which can be used with the S4.04 Series.	<b>Channel 38 - 606-614MHz</b>  Channel 38 is a licensed frequency range which can be purchased for £75 per year from <a href="http://www.arqiva.com">www.arqiva.com</a> (formerly <a href="http://www.jfmg.co.uk">www.jfmg.co.uk</a> ). Channel 65 is now included in the Channel 38 licence Trantec provide several systems in channel 38 including the S4.10, S5.3 & S5.5 Series'  <b>Channel 39-60 - 614-790MHz</b>  Channels 39-60 provide a range of limited frequencies, these frequencies are available across select locations and do require a licence. More information can be found on <a href="http://www.arqiva.com">www.arqiva.com</a> (formerly <a href="http://www.jfmh.co.uk">www.jfmh.co.uk</a> )	<b>Channel 61-69 - 790-862MHz</b>  Channels 61-69 are no longer permitted frequencies, using these channels could lead to a fine as well as imprisonment apart from Channel 65 which is now part of the Channel 38 licence





[www.trantec.co.uk](http://www.trantec.co.uk)  
0870 774 0987

Specifications are subject to change without notice