



Wireless Catalog

S5.3 Series - 12 Channel Wireless System

The S5.3 Series is widely used by semi professional and professionals in theater, 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.

12 Channels

Up to 12 channels can run simultaneously



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 meters



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 μ V or less (12dB SINAD)
Squelch Sensitivity	6-36dB μ 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 (8.3" x 1.8" x 8.3") excluding antenna
Weight	1.3kg (2.87lbs)



S5.3 Series Kits

Dynamic Handheld Mic Set

S5.3-HD=S5.3-RX+S5.3-HDX



Lavaliere Microphone Set

S5.3-L=S5.3-RX+S5.3-BTX+Lavaliere Mic



Condenser Handheld Mic Set

S5.3-HC=S5.3-RX+S5.3-HCX

S5.3-HDX (Dynamic)

S5.3-HCX (Condenser) 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

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 ø50 mm (2" x 9.8")
Weight	380g (13.4oz) with battery



S5.3-BTX (Bodypack)

S5.3-B (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 (2.1 x 3.1" x 0.9")
Weight	140g (4.9oz) with battery

Optional Microphones:

MIC-X2
MIC-X212-B-R
MIC-X212-P-R
MIC-XEM77-P

S4.16 Series - 12 Channel Wireless System

The S4.16 multifunction system is optimized for use with handheld, lapel mic and a range of headsets – or switch to use with a musical instrument. A single 9V battery gives approximately 10 hours of quality performance with a range of up to 100 meters.



12 Simultaneous Channels

Broadcasts up to 12 simultaneous channels.

PLL Technology

Fully PLL synthesized design

Long Battery Life

9V batteries give up to 10 hours of battery life under normal operating conditions



S4.16 Series

12 Channel Wireless System

S4.16-RX

Receiver

- ▶ 16 selectable frequencies
- ▶ Up to 12 simultaneous channels
- ▶ Fully synthesized PLL quartz tuning technology
- ▶ Receiver LED's show AF Peak level, RF Level, and Diversity Channel A or B
- ▶ Diversity operation with detachable antenna
- ▶ Professional metal enclosure
- ▶ 19" rack mount option for one or two receivers

Audio Output	Balanced output: +16 dB(max), 600 Ω, balanced, XLR-3-31 type connector Unbalanced output: +10 dB(max), 600 Ω, unbalanced, phone jack
Receiving Sensitivity	Over 90 dB, S/N ratio (20 dB V input, 40 kHz deviation)
Squelch Sensitivity	18 - 40 dBμV variable
Squelch System	Using together of noise SQ, carrier SQ and tone SQ
Indicator	ANT A/B, Audio (peak), RF level, Power
S/N Ratio	Over 95 dB (A-weight, unbalanced output)
Harmonic Distortion	Under 1% (typical)
Frequency Response	60 - 16,000 Hz, ±3 dB
Dimensions	214(W) x 35(H) x 100.5(D) mm (8.4"x1.4"x4") excluding antenna
Weight	580g (20.5oz)



S4.16 Series Kits

Dynamic Handheld Mic Set

S4.16-H=S4.16-RX+S4.16-HDX



Lavaliere Microphone Set

S4.16-L=S4.16-RX+S4.16-BTX+Lavaliere Mic
(Instrument cable included.)



S4.16-HDX

Handheld Transmitter

- ▶ 16 selectable frequencies
- ▶ Fully synthesized PLL quartz tuning technology
- ▶ Single 9V transmitter battery life of approx. 10 hours
- ▶ Detachable antenna

RF Carrier Power	Max. 10 mW
Maximum Input Level	146dB SPL
Audio Frequency Response	60 Hz - 20kHz
Dynamic Range	110dB or more
Battery Life	Approx 10 hours
Power Supply	6LR61 (PP3 9V)
Dimensions	50 x 270 mm (2" x 10.6")
Weight	220g (7.8oz)



4.16-BTX

Beltpack Transmitter

- ▶ 16 selectable frequencies
- ▶ Fully synthesized PLL quartz tuning technology
- ▶ Detachable antenna
- ▶ Locking 3.5mm jack
- ▶ Integral switch for selection between instrument and microphone
- ▶ Single 9V transmitter battery life of approx. 10 hours
- ▶ Microphone sold separately



RF Carrier Power	Max. 10 mW
Modulation System	PLL Synthesizer
Maximum Input Connector	120dB SPL
Audio Input Connector	3.5 mini jack
Power Supply	6LR61 (PP3 9V)
Battery Life	Approx. 10 hours
Dimensions	62 (W) x 102 (H) x 31.5 (D) mm (2.4" x 4" x 1.2") excluding antenna
Weight	90g (3.2oz)

Optional Microphones:

MIC-LP2
Q-EM-77

S4.4 Series - 4 Channel Wireless System

The S4.4 is Trantec's simplest plug and play system, designed to launch you into 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.



Four Channels

Four selectable frequencies can be used

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 meters



S4.4 Series

4 Channel Wireless System

S4.4-RX

Receiver

- ▶ 4 selectable frequencies
- ▶ Fully synthesised PLL quartz tuning technology
- ▶ Receiver LED's show AF peak level, RF level & diversity channel A or B
- ▶ Professional metal enclosure
- ▶ 19" rack mount option for one or two receivers

Audio Output	Balanced output: +16 dB(max), 600 Ω, balanced, XLR-3-31 type connector Unbalanced output: +10 dB(max), 600 Ω, unbalanced, phone jack
Receiving Sensitivity	Over 90 dB, S/N ratio (20 dB V input, 40 kHz deviation)
Squelch Sensitivity	18 - 40 dBμV variable
Indicator	ANT A/B, Audio (peak), RF level, Power
S/N Ratio	Over 95 dB (A-weight, unbalanced output)
Harmonic Distortion	Under 1% (typical)
Frequency Response	100 - 15,000 Hz, ±3 dB
Dimensions	214 (W) x 35 (H) x 100.5 (D) mm (8.4" x 1.4" x 4") (excluding antenna)
Weight	580g (20.5oz)



S4.4 Series Kits

Dynamic Handheld Mic Set
S4.4-H=S4.4-RX+S4.4-HDX



Lavaliere Microphone Set
S4.4-L=S4.4-RX+S4.4-BTX+Lavaliere Mic
(Instrument cable included.)



S4.4-HDX

Handheld Transmitter

- ▶ Four switchable licence-free frequencies
- ▶ Fully synthesized PLL quartz tuning technology
- ▶ Detachable antenna
- ▶ Single 9V transmitter battery life of approx. 10 hours

RF Carrier Power	Max. 10 mW
Modulation System	PLL Synthesizer
Battery	6LR61 (PP3 9V)
Battery Life	Approx 10 hours
Indicator	Battery Status LED
Dimensions	50 x 270 mm (2" x 10.6")
Weight	220g (7.8oz)



S4.4-BTX

Bodypack Transmitter

- ▶ Locking 3.5mm jack
- ▶ Integral switch for selection between instrument and microphone
- ▶ Single 9V transmitter battery life of approx 10 hours



RF Carrier Power	Max. 10 mW
Modulation System	PLL Synthesizer
Mic Input Connector	3.5 mini jack
Battery	6LR61 (PP3 9V)
Battery Life	Approx 10 hours
Indicator	Battery Status LED
Dimensions	62 (W) x 102 (H) x 31.5 (D) mm (2.4" x 4" x 1.2") (excluding antenna)
Weight	90g (3.2oz)

Optional Microphones:

MIC-LP2
Q-EM-77

Lavalier Microphones

MIC-X2 / MIC-LP2

The MIC-X2 / MIC-LP2 miniature lavalier microphone offers superb audio quality combined with stylish looks at an affordable price.



The robustly designed MIC-X2 / MIC-LP2 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 MIC-X2 is available in black, and has a permanently attached cable.

MIC-X2 for S5.3 Series

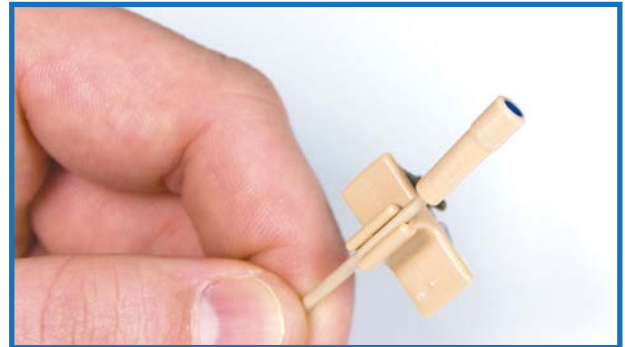
MIC-LP2 for S4.4 and S4.16 Series

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
Colors Available	Black

MIC-X212-B-R for S5.3 Series

MIC-X212-P-R for S5.3 Series

The MIC-X212 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.



MIC-X212-P-R

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 MIC-X212 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. 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 (-B-R), Beige (-P-R)

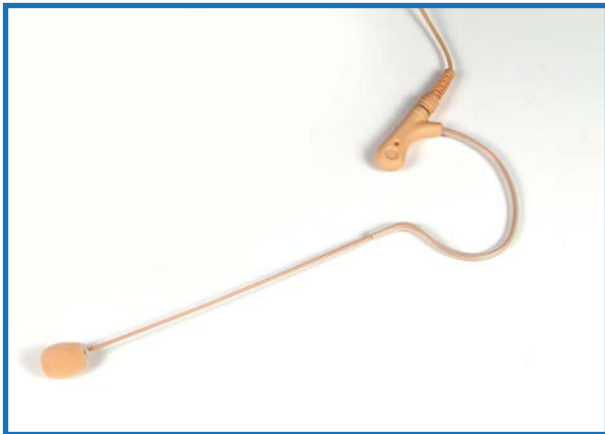


MIC-X212-B-R

Headworn Microphones

MIC-XEM77-P / Q-EM-77

The MIC-XEM77-P / Q-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.

MIC-XEM-77-P for S5.3 Series
Q-EM-77 for S4.4 and S4.16 Series

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

Antenna Distribution

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.



Accessories



Foam
Windshield
for HM-22

Product code:
ACC-WS-BGE



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

Leather Belt Pouch

Added protection for your beltpack with this long lasting protective leather pouch. Suitable for S5 Series beltpack transmitters.

Product code: ACC-S5POUCH



4 Pin Mini XLR Connector (TA-4)

Product code: PLG-MXLR

Receiver Antenna

For S4.16 receiver & rack 'n' Ready series



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

For S5.3 & S5.5



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

Transmitter Antenna



Whip Antenna

For S4.4 and S4.16 Series UHF belt pack transmitters.

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



Helical Antenna

For S4.4 and S4.16 UHF hand-held transmitters.

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

Remote Antenna



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

Instrument Cables

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

Rack Mount Panel

For mounting panel mount sockets.
Product code:

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



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

Cardioid

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

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.

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

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.

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



www.toaelectronics.com
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Specifications are subject to change without notice