

Trio

Intercom Transmitter

Small discrete size

Synthesised
multi-frequency
operation

Long battery life
using standard
AA batteries

Internal electret
microphone
with external
option

50mW RF output

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making
waves



Trio gives studio floor crew a compact discrete transmitter unit for gallery communications. It will normally be used in conjunction with a Solo receiver.

Using advanced synthesised frequency control techniques, Trio operates in the 400 to 900 MHz frequency range and has four non-volatile internally stored channels. These can be readily reprogrammed using standard PC software.

Users can choose from either the internal electret microphone and front panel push to talk switch (PTT) or an externally keyed microphone connected via a standard 3.5mm stereo jack connector.

Operating from a pair of AA batteries, Trio will give an extended battery life of over 10 hours under normal operating circumstances. A visual low battery indicator is just one of the many facilities designed as standard into these rugged units.

In common with other products in the range and in contrast to competitor systems Trio uses narrow band FM techniques to provide high quality audio while remaining spectrally efficient.

In the future occupied bandwidth could be a critical cost consideration with spectrum pricing becoming an issue with licensing authorities.



By satisfying European ETS 300 086 mobile radio specification, Trio will technically comply with the most demanding of type approval requirements anywhere in the world.

This aspect together with frequency agility, small size, excellent audio quality and extended battery life all contribute to make Trio the natural choice for professional studio wireless intercom applications.

A Trio and Solo combination provides a traditional 'twin belt-pack' mode of working in contrast to the Duo duplex transceiver. Both configurations will require a Symphony base station to complete the installation.



Trio Intercom Transmitter

Specification

Frequency range	400 - 900 MHz (banded)
RF power output	50 mW (adjustable down to 5mW)
Number of channels	4 with push switch selection
Switching bandwidth	10MHz
Channel spacing	25kHz or 12.5 kHz
Frequency stability	±2.5ppm over temperature range
Deviation	25kHz ± 3 kHz nom (± 5 kHz max)
	12.5kHz ± 1.5 kHz nom (± 2.5 kHz max)
Adjacent channel power	<200 nW
TX enable time	<120ms
Antenna	Internal frame loop
Modulation input sensitivity	-60 dBm for peak deviation; (with internal adjust)
Microphone type	Internal or external (selectable dynamic or electret)
Microphone input	600 ohms unbalanced
Pre-emphasis options	50µs or 6 dB per octave or flat (jumper selected)
Soft limiter	Constant deviation over >20dB mic input range
Battery type	2 x AA alkaline primary cells
Battery life expectancy	>10 hours (5% TX basis))
Operating temperature	-20°C to +55°C
Housing	High impact injection moulded case
Size	180 x 60 x 22mm (7.08" x 2.36" x 0.86")
Weight	150g (5.28oz)
Connectors	3.5mm stereo jack for external microphone / PTT
Controls	Channel change and PTT
Indicators	Channel select; low battery

Options

Carrying Case
Selective calling

Associated Equipment

Symphony Wireless Intercom Base Station
Solo Presenter Feed Receiver
Duo Duplex Intercom Transceiver

Wood & Douglas maintain a policy of continuous product improvement and enhancement. As a consequence, the above specification may change without notice.

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Wood & Douglas Ltd
Lattice House
Baughurst
Tadley
Hants RG26 5LP
United Kingdom

Tel : +44 (0) 118 981 1444
Fax : +44 (0) 118 981 1567

info@woodanddouglas.co.uk
www.woodanddouglas.co.uk