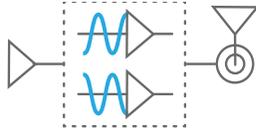
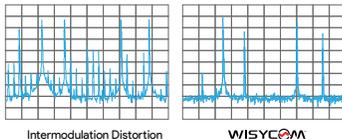


MTB40S is a small, light-weight plug-on transmitter especially designed for professional wireless microphone applications.

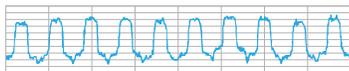
Wideband RF Technology featuring a double conversion stage - intermediate frequencies combined with SAW filters provide the widest switching bandwidth available between 470-700MHz, 2400 user-defined frequencies (40 group by 60 freq.). The entire UHF band in one device.



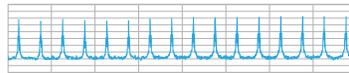
IMD Phase Cancellation within our advanced linear technology eliminates intermodulation distortion for more robust signal, extended range, and the ability to operate several transmitters within close-proximity to each other.



Evenly Spaced Frequencies - The #1 benefit of IMD Phase Cancellation is the ability to utilize evenly spaced frequencies (Wideband Channel Filters with 400 kHz min. spacing) for more channels with no intermod issues.



Narrowband Channel Filters - MTB40S Band 8 transmitters generate Narrowband Channel Filters (200kHz min. spacing) to deliver twice as many channels into the existing spectrum.



Multi-Companding - SHARC™ DSP delivers ENC and ENR algorithms for perfect audio in any application with less than 1ms delay - with create and shape presets for the desired sound.



Other Features:

- Highly-visible white OLED display
- Infrared interface for quick frequency setup and firmware update
- Quick setup via 5 waterproof buttons
- Highly adjustable Mic Gain: 80dB in 1dB steps
- P48 phantom power for condenser microphones
- Audio input circuitry with highly accurate audio transformer
- XLR-3F connector with locking collar to ensuring an extremely tight, noiseless fit!
- Hardware Limiter for additional peak input protection (30 dB above peak)
- Powering: 2 AA Batteries - Alkaline, rechargeable NiMH or Lithium



Subject to change without notice

TECH SPECS

Switchable channels	2400 allocated by 40 groups of 60 channels (in specific frequency range), quickly selectable with dedicated buttons
Switching window	Up to 232 MHz, (see Variants below)
Frequencies	Quartz PLL frequency synthesizer circuit (25 kHz step)
Frequency stability	± 2,5 ppm (in the rated temperature range)
Temperature range	-10÷+55°C
Max RF power	10 mW (ERP) 50 mW (ERP) [100mW(ERP)(note:insomecountrieshighpowercanbedisabled,forlocalnorm!)]
Spurious emissions	<2nW
Modulation	wideband FM, with pre-emphasis
Nominal deviation	±40 kHz (Peak deviation = ±56 kHz)
Telemetry feature	MTB40S transmits also a digitally modulated sub-carrier, suitable for: • tone-squelch operating • remote battery monitoring
AF input connector	XLR-3F (transformer isolated) with locking collar and 48V phantom power
AF input level	100 dB adjustable range from -54 dBu (775 uV) to 46 dBu (15.5 V) at peak deviation (1 kHz), adjustable in 1 dB steps
Max. input level	+46 dBu (15.5 V) at clipping, +20 dBu (7.75 V) at nominal level
Noise-Reduction	ENR (Wisycom Extended-NR), with independent Attack- and Recovery-time, noise optimized ENC (Wisycom Extended-NC), with independent Attack- and Recovery-time, voice optimized & with reduced pre-emphasys
AF bandwidth	45Hz±21KHz(3dB) 55Hz±20KHz(1dB)
Distortion	< 0.3 % (0.15 % typ.)
Signal-to-noise ratio	typ. 115 dB (A)rms with 40 kHz deviation typ. 121 dB (A)rms with 56 kHz deviation
LED	RGB Led indication (red, green and blue): • Wireless transmission status - Green when RF transmission power is on, - Red when RF transmission power is off. - Blue when the input signal is above the peak threshold • Modulation peak (if activated & limiter disabled): RED • Battery lifetime status: GREEN - steady (> 25%) - slowly blinking (< 25%) - quickly blinking (<12%)
Display	High contrast OLED (Organic light-emitting diode) white display (128 x 32 pixels) 8 step battery lifetime indication: 7 bars (100%-87%-75%-63-50%-38%-25%) and "empty bar" quickly blinking (12% remaining)
Power supply	2 AA size batteries (Alkaline, rechargeable NiMH or Lithium) - Phantom Power to Mic (max 4 mA)
Dimension	124 x 40 x 34 mm (Height-Width-Depth)
Weight	Approx. 210 g. without batteries (250g with batt)



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