

# WISYCOM™ MPR50-IEM WIDEBAND, TRUE-DIVERSITY IEM RECEIVER

The **MPR50** is a compact, belt-pack style true-diversity receiver designed for professional in-ear monitoring applications.

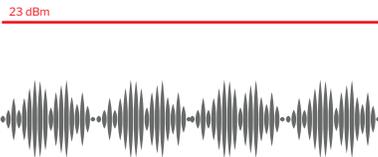
**True-Diversity Reliability** This receiver features a real true-diversity configuration along with a unique wide-band tuning range up to 232MHz (470-798MHz range), so each receiver can be used anywhere, on any tour.



**Multi-Companding** Precisely handling the second part of the companding process, the MPR50-IEM accurately expands the delivered audio signal with Wisycom's proprietary ENS companding algorithm with separate release/ attack.



**Audio Headroom** The expanded audio signal is decoded with stereo MPX audio processing for recreation of the source stereo or mono audio program material and delivered with our specially designed headphone amplifier designed to maximize headroom with peak-dynamic of +23 dBm (200mW).



**Batteries** Designed for flexibility to fit the unique needs of stage productions, the MPR50 accommodates several battery configurations by allowing the use of disposable and rechargeable batteries including:

- 2 AA NiMH or Alkaline
- C3-V3 battery pack
- KLIC 8000 or CR-V3R lithium (i.e. DR9708 duracell)

Other Features:

- Onboard charging via integrated micro-usb-B connector.
- Easy to use thanks to an OLED display
- Dedicated function buttons & TX/RX frequency sync function
- Automatic receiver programming with RX Manager application and micro-USB cable or infrared via optional UPKmini
- FM IFB mode with NARROW-BAND modulation to enhance noise immunity and coverage (SW selectable)



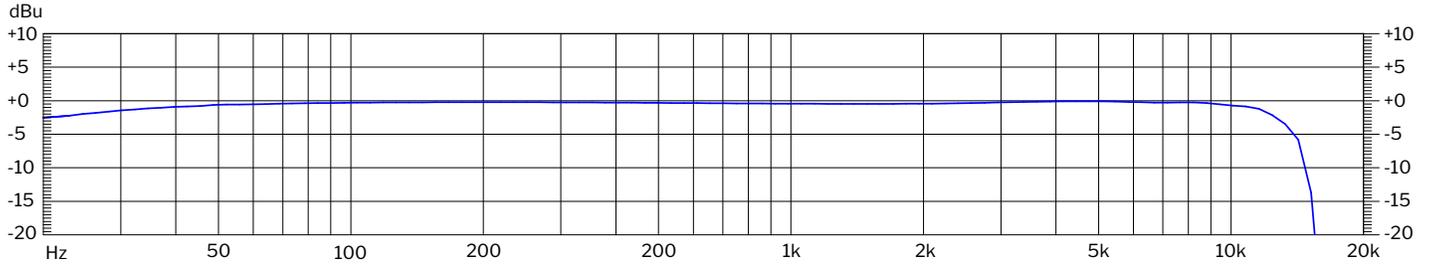
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## FREQUENCY RESPONSE



## TECH SPECS

<b>Frequency ranges</b>	N ⇒ option 470 ÷ 700 MHz. M ⇒ option 566 ÷ 798 MHz. other ranges are available on request in 470÷798 MHz.
<b>Switchable channels</b>	40 groups of 60 channels fully user programmable.
<b>Switching-window</b>	up 232 MHz.
<b>Frequencies</b>	Microprocessor controlled frequency synthesizer circuit, with 25 kHz minimum step. The frequencies can be easily PC reprogrammed with USB interface of optional UPKmini/UPK300E Programming Kit.
<b>Frequency error</b>	< ± 2.5 ppm, in the rated temperature range.
<b>Temperature range</b>	-10 ÷ +55 °C.
<b>Modulation</b>	FM, (stereo MPX decoding, 19 kHz sync carrier) or 100 kHz narrowband IFB (SW selectable).
<b>Peak deviation</b>	±48 kHz.
<b>“A”/“B” antenna in</b>	with sturdy connectors.
<b>Antenna input imp.</b>	50 ohm sma type (SWR < 1:2; typ. 1:1.4).
<b>Sensitivity</b>	⇒ 2 µV (6 dBµV), for SND/N > 52 dB; in the whole switching-window [1].
<b>Co-channel rejection</b>	> 2.5 dB.
<b>Adjacent channel selection</b>	> 80 dB typical (for channel spacing ≥ 400 kHz).
<b>Spurious rec. rejection</b>	> 100 dB.
<b>IF image rejection</b>	> 90 dB.
<b>Intermodulation rejection</b>	> 76 dB.
<b>IIP3</b>	> +10 dBm typical.
<b>Spurious emissions</b>	< 2 nW (typical = 0.1 pW).
<b>Noise Reduction</b>	⇒ ENS (new).
<b>AF bandwidth</b>	30 Hz ÷ 15 kHz.
<b>Frequency response</b>	± 0.5 dB in the 30 Hz ÷ 15 kHz range.
<b>Distortion</b>	0.3 % typical.
<b>SND/D ratio</b>	90 dB typical [1].
<b>Stereo separation</b>	> 60 dB.
<b>Display</b>	Display OLED 128x64 (white).
<b>Powering</b>	2 x IEC-LR6 1.5V size-AA alkaline or rechargeable elements.
<b>Weight</b>	100 g approx. without batteries.
<b>Headphone-output</b>	Stereo Plug 3.5mm(TRS) Locking (M6 x 0.5 thread) with 2 X 200mW @ 32 Ohm.
<b>Battery life</b>	approx. 4,5 hours (alkaline batteries), 6 hours (lithium batteries).



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