

HIGH PERFORMANCE TRUE DIVERSITY RECEIVER
Main Features

- Up to 232 MHz bandwidth in 470/798 MHz range
- TRUE DIVERSITY RECEIVER with 2 whip antennas
- NARROW-BAND FM modulation to enhance *noise immunity* and *coverage*
- 200 mW peak audio power
- Separate release/attack compander
- Miniature design with 2 AA battery pack integrated (body-pack form factor) or rechargeable lithium pack
- Easy to use thanks to an OLED display
- Dedicated function buttons & frequency scan function
- Automatic transmitter programming thru infrared and micro-USB


GENERAL DESCRIPTION

MPR30 IFB is a compact true diversity receiver designed for professional IFB applications. This receiver features a unique wide-band tuning range up to 232 MHz and a real **TRUE DIVERSITY** reception that enhances the coverage and makes it ideal as IFB is a single-frequency network.

The output audio stage is especially design to have maximum audio peak-dynamic of 200 mWatt.

Very easy and versatile thanks to its Oled display, navigation button controls, infrared and automatic scan.

Battery management is very flexible since MPR30 allows use of standard battery pack:

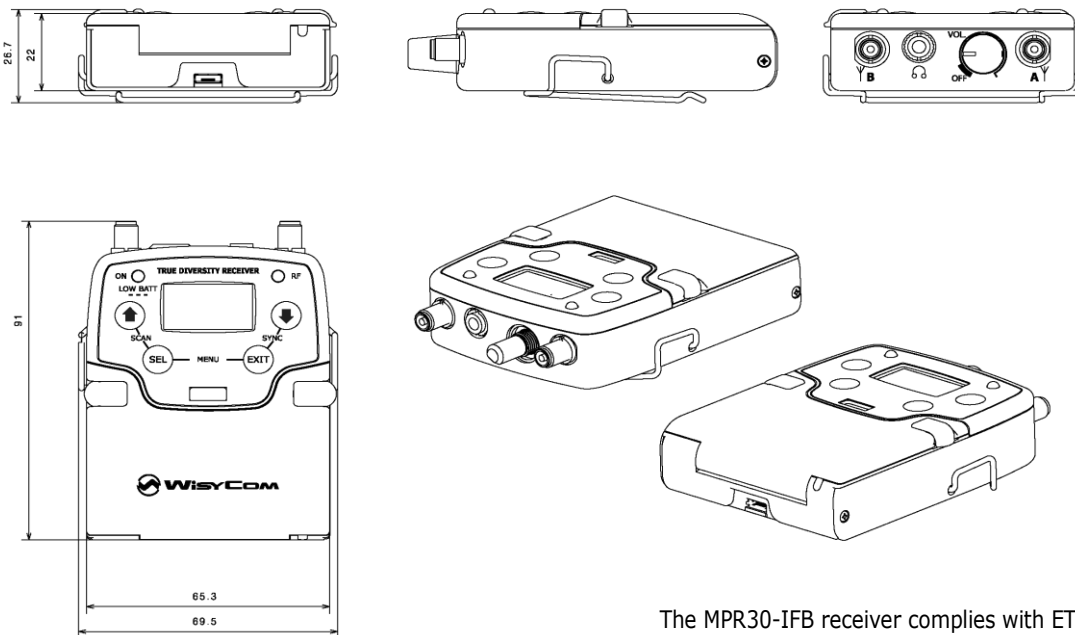
- 2 AA NiMH or Alkaline
- C3-V3 battery pack
- KLIC 8000 or CR-V3R lithium (i.e. DR9708 duracell)



Charging can be done with dedicated charger or through the integrated micro-usb-B connector.

TECHNICAL DATA

- Frequency ranges : N ⇒ option 470 ÷ 700 MHz
M ⇒ option 566 ÷ 798 MHz
other ranges are available on request in 470÷798 MHz
- Switchable channels : 40 groups of 60 channels fully user programmable.
- Switching-window : up 232 MHz.
- Frequencies : microprocessor controlled frequency synthesizer circuit,
with 25 kHz minimum step. The frequencies can be easily
PC reprogrammed with the optional UPK 300E Programming Kit.
- Frequency error : < ± 2.5 ppm, in the rated temperature range.
- Temperature range : -10 ÷ +55 °C.
- Modulation : narrowband FM
- Max deviation : ±40 kHz
- "A" / "B" antenna in : with sturdy connectors.
- Antenna input imp. : 50 ohm sma type (SWR < 1:2; typ. 1:1.4).
- Sensitivity : ⇒ 2 µV (6 dBµV), for SND/N > 52 dB;
in the whole switching-window
- Co-channel rejection : > 2.5 dB.
- Adjacent chan. Sel. : > 80 dB typical (for channel spacing ≥ 200 kHz).
- Spurious rec. Rej. : > 100 dB.
- IF image rejection : > 90 dB.
- Intermod. rejection : > 76 dB.
- IIP3 : > +10 dBm typical.
- Spurious emissions : < 2 nW (typical = 0.1 pW).
- Noise Reduction : ⇒ ENR (Wisycor Extended-NR)
- AF bandwidth : 30 Hz ÷ 12 kHz.
- Frequency response : ± 0.5 dB in the 30Hz ÷ 12 kHz range
- Distortion : 0.3 % typical.
- SND/D ratio : 90 dB typical
- Powering : 2 x IEC-LR6 1.5V size-AA alkaline or rechargeable lithium elements
- Weight : 100 g approx. without batteries
- Headphone-output : Stereo Plug 3.5mm(TRS) Locking (M6 x 0.5 thread) with 2 X 100mW @ 32 Ohm
- Battery life : approx.. 5 hours (alkaline batteries), 8 hours (lithium batteries)



The MPR30-IFB receiver complies with ETSI specifications: ETS 300 422.