

IEM 1100-N

UHF In-Ear System



IEM 1100 R In-Ear Receiver

- Shatterproof carbon fiber casing
- Output level control
- Battery low indicator
- Soft squelch function
- Limiter and compander circuits

The mono based UHF InEar System IEM1100 offers a well thought through dual input section with a XLR input and a XLR link/thru, which makes a personal mix of e.g. voice and background music possible and allows the signal to be linked to another IEM unit. The rigid transmitter made out of metal, designed as a half rack space unit, offers two volume controls with LED Level meters for each channel and a detachable antenna with BNC connector. The unbreakable pocket receiver made out of very light weight carbon fibre includes a mini jack socket and a combined volume/on/off switch. The receiver's new Diversity circuit offers a maximum in performance and distortion free operation.

Available as options are the AST4 Antenna Combiner to cascade up to four IEM Systems and the RDA950 Directivity Antenna Set to increase possible range. The new Diversity circuits offer a maximum

AST4

Antenna Combiner. Combines up to four IEM1100T or IEM2200T on to one antenna.

RDA950

Passive directional antenna for use with IEM1100T, IEM2200T or AST4 Antenna Combiner. HF-Boost +8dBi, radius 180°.



All Included:

Supplied with each system are SONY™ headphones, their frequency response of 20 - 20000 Hz ensures the highest possible audio performance.

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|------------|------------------------------------|
| IEM 1100 | Complete set with earpiece set |
| IEM 1100 R | Receiver without earpiece set |
| MPH 100 | SONY™ High Resolution earpiece set |



IEM 1100 T In-Ear Transmitter

- UHF quartz controlled
- 9.5" metal housing
- Detachable antennae
- Balanced two-channel mix in/out
- Limiter and compander circuits
- Input level and LED monitoring of both input channels



When operating wireless systems, there are several key issues that have to be taken into consideration: It is necessary to select the frequencies very carefully. Interference can be caused by what is called “intermodulation” – in simple terms, this means the effect created when two frequencies interact. You must ensure that in any multi-channel system, no two frequencies are the same and care should be exercised because the possibility exists for some frequencies to interfere with each other.

Please consult your dBTechnologies dealer for assistance.

VHF Standard Frequencies

173.800	BLACK
174.500	BROWN
175.000	GREY
175.750	ORANGE
184.175	LIGHT GREEN
184.500	PINK
216.250	LIGHT BLUE
218.750	VIOLET
222.625	RED
233.125	DARK BLUE
234.625	LIGHT BROWN
236.575	DARK RED
237.775	WHITE

Six frequencies can operate simultaneously

UHF Standard Frequencies

799.475	A
799.600	B
801.400	D
801.550	E
803.800	F
806.750	G
810.650	H
854.900	I
808.975	M
810.025	N
863.400	Q
864.000	R
864.600	S
771.630	T
774.465	U
778.210	V

IEM 2200

Band A:	801.000 - 820.650 MHz
Band U-N:	801.000 - 819.650 MHz
Band U-UK:	854.900 - 864.950 MHz
Band K:	774.200 - 781.800 MHz

PU901/PU910

Band U-N:	801.100 - 819.650 MHz
Band U-UK:	854.900 - 864.950 MHz
Band K:	774.200 - 781.800 MHz
Band ISM:	863.050 - 864.175 MHz

Transmitter IEM 2200 T

Frequency range	UHF 774 - 865 MHz, 16 switchable frequencies
Modulation	FM
Deviation	55 KHz
Output power	25 mW
Frequency response	50 Hz - 15 KHz ± 3 dB
Distortion	< 1 %
Audio Input	2 x Neutrik-Combo® 6,3 mm jack/XLR balanced
Audio Output	2 x 6,3 mm Stereo-jack balanced LINK-OUT 1 x 3,5 mm Stereo-jack headphone output 1 x 6,3 mm Stereo-jack headphone output
Input Sensitivity	< 0 dBV / 600 Ohm, per channel adjustable
Power source	12 V AC 250 mA, external mains

Receiver IEM 2200 R

Frequency range	UHF 774 - 865 MHz,
Modulation	FM
Deviation	55 KHz
Frequency response	50 Hz - 15 KHz ±3 dB
Distortion	< 1 %
Deviation	40 dB @ 1 KHz
Signal-to-noise ratio	>105 dB Mono >100 dB Stereo
Headphone output	200 mW / 16 Ohm per channel
Current consumption	9 V Alkaline battery 6LR61
Operating time	6,5 - 8 hours
Operating mode	Mono, Dual-Mono, Stereo
Special features	Switchable limiter, Soft-Squelch

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