The Pro Technical Specifications

The Pro Microphone

Housing:	Plastic. Matt black finish.
Dimensions:	10.2cm (L) x 3.3cm (W) x 2.3cm (D)
Weight:	67 g.
VHF Frequencies:	ETSI Licence Exempt Channels between 169 - 175 MHz
Channel Selection:	PLL Synthesizer
Battery Type:	Rechargeable Li-Ion single cell
Charge life:	8 hours approx. Red LED battery warning
Charge Time:	2hrs from full discharge can be topped up
RF Power and Range:	<10mW Outside; up to 50m. Inside; up to 20m typical
Mic muting:	Mic muted when line input is connected
Modulation:	FM
Maximum Deviation:	+/- 15 kHz
Spurious Emission:	Below maximum ETSI permitted limits
Frequency Stability:	< +/-5kHz (0-40 degrees Celsius)
Frequency Response:	+/- 3dB between 300Hz – 4kHz with resistive load
Microphone:	Switchable omni / unidirectional Electret microphones
Omni Field:	Sensitive to all directions
Front to Back Ratio:	Up to 30dB reduction of rearward sound @ 1kHz And up to 15dB reduction to the sides
Line Input Sensitivity:	100mV RMS @ 10kohms, stereo mini-jack
Sensitivity:	Soft-limited, two threshold levels for both line and microphone inputs.
Battery Indicator Light:	Light changes from green to red, indicating 25% battery capacity remaining

The Pro Receiver

Housing:	Plastic. Matt black finish.
Dimensions:	6.5cm (L) x 3.4cm (W) x 1.7cm (D)
Weight:	61 g.
VHF Frequencies:	ETSI Licence Exempt Channels between 169 - 175 MHz
Channel Selection:	PLL Synthesizer. Pro auto-tune (PRAT TM) for class selection in school application
Squelch:	PSSS TM circuitry switches off audio and switches on local microphone when there is no transmission
Receive Indicator:	LED indication of received signal
Battery Type:	Rechargeable Li-Ion cell
Charge life:	8 hours approx operation. LED changes from green to red as capacity drops to 25%
Charge Time:	2hrs from full discharge, can be topped up, can be used for 1 hr after a 15min charge.
Frequency Stability:	< +/-5kHz (0-40 degrees Celsius)
Frequency Response:	+/- 3dB between 300Hz – 4kHz with resistive load
Audio Output:	3.5mm 3-pole (stereo) jack socket
Distortion	<5% at max volume (typical <1%)
S/N ratio	> 50dB
Load Impedance:	32 Ohms
Integral Inductive Loop:	Inductive field meets Bs 6083 Part 4 in appropriate mode
Acoustic Gain of Full System:	Up to 55dB