

LAAR bioacoustic

Laar PX 1

The Laar PX 1 is in the high performance range of ultrasound frequency converters that operate using the heterodyne method. Depending on ambient conditions, detection ranges of more than 150 m (i.e. noctules) are possible. Even very quiet species such as the brown long-eared bat can be detected at distances of up to approximately 10 m.

The unit is provided with a quartz-stabilised oscillator, ensuring an accurate reading of the frequency throughout the entire frequency range. The figure indicated is the actual frequency. There is no oscillator-induced frequency inaccuracy. This makes the Laar-PX 1 superior to many other competing devices.

An internal microphone has been deliberately dispensed with in order to achieve the maximum possible range. Due to the extremely small size of the unit, an internal loudspeaker would cause feedback. To compensate for this problem it would be necessary to reduce the sensitivity. Since this is undesirable, we can offer an external loudspeaker for use in the field.

Maximum output is achieved by separating the microphone from the loudspeaker.

The units are supplied with a preset frequency range of 15-130 kHz. However, if required, the frequency range can be extended by 12 kHz at the bottom of the range and by 160 kHz at the top of the range. This makes the equipment suitable for detecting grasshoppers, shrews and mice.



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Optional
LSP 50
External speaker f. excursions

Technical datas	Ultrasound detector Laar PX 1
Circuit	Heterodyne with separated oscillator
Frequency range	15 — 130 kHz
Filter bandwidth	+/- 5 kHz
Display	LED-night display
Microphone unit	Electret-Condensor-Microphone
Output	1 x headphones/speaker, 1 x tape
Power supply	1 x 9V-Block
Dimensions	157mm x 84mm x 30mm
Weight	Ca. 260 g