

## TREX® 210-5

### Metal detector

- Handy and sturdy design
- High sensitivity to minimum amounts of metal
- Effective ground compensation (GEB)
- Easy to use, high electrical stability



The TREX® 210-5 is a new detector of lightweight design, compact shape and very low power consumption. It is intended for humanitarian Mine Action carried out by indigenous deminers in third world conditions. It combines the handiness and ease of operation of the thousand fold proven EB 420 H with the latest technology of ground compensation.

The hand held, battery operated eddy current metal detector is intended to locate objects containing large or minimum amounts of ferrous or non-ferrous metal which are buried in the top layer of the ground. It can be tuned to disregard unwanted signals from so-called non-cooperative grounds within wide limits. Target acquisition is indicated by an audio alarm, which changes in intensity depending on size and distance of the detected object. Due to its electronic design the detector is particularly efficient on small metal objects or objects with low conductivity but therefore not suitable for operation in saltwater or on saltwater impregnated ground.

TREX® 210-5 is a useful tool to support search for minimum amounts of metal such as in archaeology, forensic police work or Mine Action due to its good detection range and resolution of metal objects buried close to each other. The TREX® 210-5 operates on a so-called 'dynamic' search mode which eases operations on non-cooperative ground or in parallel to fences, pipes, rails etc. if the search head is carried at an even distance and in parallel alongside the obstacle.

The TREX® 210-5 applies a new active TR-eddy current technique with an effective ground compensation (GEB) which, different to the PI technique, does not suffer from a detection range reduction on mineralised soils. Due to the high operation frequency, which is particularly sensitive to small metal objects the device is not suitable for use in saltwater or on saltwater impregnated ground. During the design attention was paid to a low power consumption which extends battery life. The detector operates with a rechargeable Li-Ion battery pack. The device transmits an AC electromagnetic field by the oval search head inducing eddy currents into conductive objects. These counteract to the detector are picked up by the search head.



### Technical Data

Power supply	Li-Ion Battery Pack - 4400 mAh
Operation time (at 20°C)	approx. 85h
Temperature range	-15° to + 55 °C (operation)
Dimensions	Short approx. 750 mm, extended storage operation approx. 1480 mm
Oval search head	approx. 220 x 170 mm
Extension rod	approx. 620 mm
Weight, operational	short approx. 1300 g Extended with armrest and handgrip approx. 1900 g
Sensitivity steps	3 steps, Low, Medium, High



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