

ADVANCED PULSE INDUCTION SYSTEM UPEX 745 DF

Increased detection depth Geometric separation of the receiver coils 8 measurement channels 5 delays





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General

The UPEX® 745 DF is a deep <u>active search system</u>, based on the electromagnetic pulse induction principle designed and produced by us in Germany. The system is used to detect ferromagnetic and non-ferrous metal objects, primarily in unexploded ordnance clearance and subsurface geophysical surveys. With the UPEX® 745 DF, Ebinger completes its traditional range of pulse inductionbiased measuring systems as far as resolution and detection depth are concerned. "German innovation from the Ebinger ideas laboratory".

Constructional Features

The circular coil arrangement substantially betters the signal-noise ratio (S/N) up to 50 % and thus allowing a <u>significant increase in detection depth</u>. The 5 time gates and a decoupling of the receiver coils substantially ameliorate detection and resolution. The dimensioning and the geometric arrangement of the inner receiver coils in conjunction with an early measurement also contribute to the enhanced performance and boost the resolution of <u>small, near surface objects</u>. The size and arrangement of the external receiver coils are adapted to the detection of <u>larger and deeper buried targets</u>. The geometric dimensioning of the system implies a significant increase in productivity due to the large scan area covered.

- High detection range
- Signal-noise (S/N) ratio improved by up to 80%
- 8 measuring channels /5 time gates
- Substantially improved resolution
- Geometric separation of the receiver coils

TECHNICAL DATA







Color maps with different delays





