LABORATORY: CNR-ISPC

NAME OF THE INSTRUMENT

CMD - multidepth electromagnetic conductivity meters

GENERAL DESCRIPTION:

CMD Explorer electromagnetic conductivity meter is designed for survey depth ranges from 1.1 to 6.7 m. The system uses a contactless method allowing fast measurements of conductivity and inphase under all field conditions (including very dry and icy ground). The Explorer probe is equipped with 3 receivers with excellent temperature stability. This way makes for high resolution depth graded mapping as well as imaging of sections possible and useful for wide range of walking and moving applications. It allow to measure the subsoil conductivity

TECHNICAL DESCRIPTION:

Multi-depth profiling and mapping (1.1 - 6.7 m), Fast sampling (up to 10 Hz), high temperature stability. Manual and continuous measuring modes with GPS. Two Bluetooth channels (for probe and external GPS). Real-time clock, map preview of area coverage



Figure: multidepth electromagnetic conductivity meters

FURTHER INFORMATION:

•Leucci G., 2015, Geofisica Applicata all'Archeologia e ai Beni Monumentali. Dario Flaccovio Editore, Palermo, pp. 368. ISBN: 9788857905068

•Leucci G., 2019, Nondestructive Testing for Archaeology and Cultural Heritage: A practical guide and new perspective. Springer editore pp 217, ISBN 978-3-030-01898-6

•Leucci G., 2020, Advances in Geophysical Methods Applied to Forensic Investigations: New Developments in Acquisition and Data Analysis Methodologies. Springer editore, pp 200, ISBN 978-3-030-46241-3

• Giannino F., Leucci G., 2021. Electromagnetic Methods in Geophysics: Applications in GeoRadar, FDEM, TDEM, and AEM. Wiley, pp 352, ISBN: 978-1-119-77098-5

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