Cable and underground infrastructure locator

LKZ-2500

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LKD-2500 | index: WMGBLKD2500

LKN-2500
transmitter



Li-Ion BATTERY

IP67



LKD-2500
detector



Li-Ion BATTERY

BLUETOOTH

IP65

Underground detective

Features

The LKZ locator set consists of a LKN transmitter and LKD detector. It allows for location, identification and tracking of the route of objects buried in the ground. It allows to trace:

- power cords and cables, control cables, telecommunications cables,
- underground elements of lightning protection systems, cathodic protection systems,
- water and sewage systems,
- fuel transmission systems (pipelines, gas pipelines)
- heating systems and pre-insulated pipes.

The sets of LKZ series are an invaluable support in earthworks carried out for various industries, including energy, installation, construction, railway, telecommunications, water and sanitary, heating, geodetic and many others.

LKN-2500 transmitter injects a locating signal into an underground object. **LKD-2500 detector** placed along the object traces this signal along the object. The information about position of the traced object is displayed on the **Sonel LKZ Mobile app** which is connected with the detector. Determination of the object's route is possible based on observation of compass readings and the level of the detected signal.

The system has the ability to trace cables and record routes via the mobile application. Such files can be exported and shared with other users – including those who do not have the LKN-2500 / LKD-2500 device.

The system is capable of operating in passive mode (without the use of the LKN-2500 transmitter) and active mode (with the use of the LKN-2500 transmitter). The active mode allows to introduce the signal in three different methods:

- **galvanic** – injects tracing signal into the object directly, through crocodile clips and test leads,
- **clamp** – injects tracing signal into the object through an inductive clamp,
- **inductive** – injects tracing signal into the object inductively, using the instrument's internal antenna.

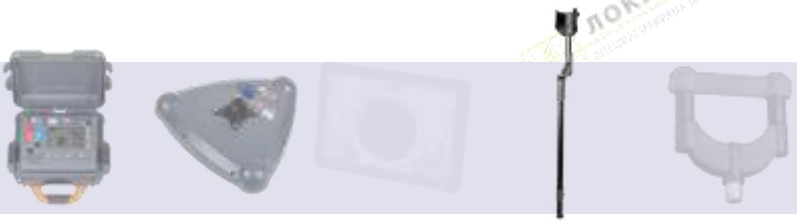
Choose the best set for your needs

transmitter	detector	control panel	long handle	short handle

LKZ-2500
includes transmitter, detector, control panel and long handle



LKZ-2500 Start
includes transmitter, detector and long handle



LKZ-2500 Lite
includes transmitter, detector and short handle



LKD-2500
includes detector and short handle









LKN-2500 transmitter

- Operation in direct galvanic or inductive connection mode – internal transmitting antenna
- Compatible with transmitting clamps
- Rugged housing

LKD-2500 detector

- **Active mode**
  - » work with LKN-2500 transmitter at the frequencies of 8 kHz, 32 kHz (Signal mode)
- **Passive mode** – work at the frequencies of:
  - » 50 Hz, 60 Hz (Power mode)
  - » 2...65 kHz (Radio mode)

Authorized Distributor:

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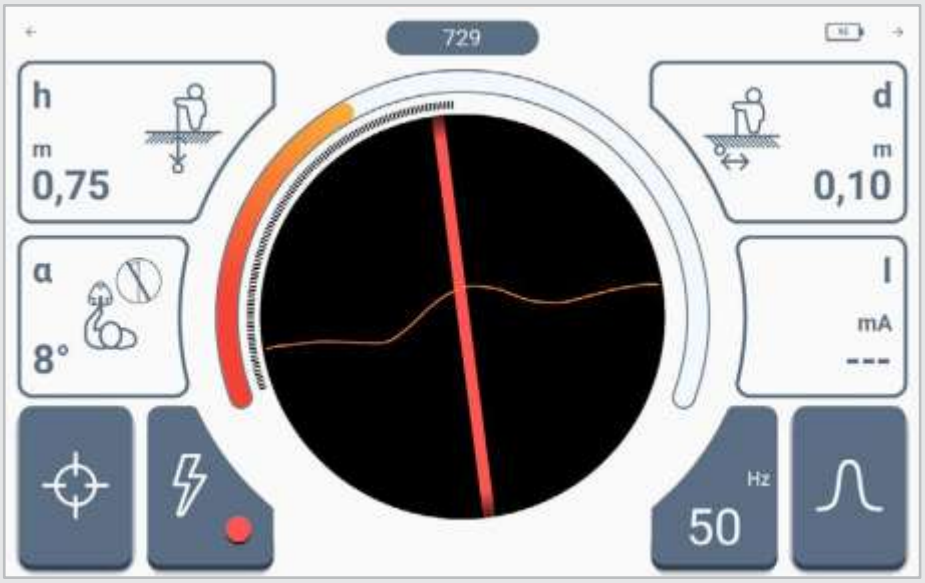
Sonel LKZ Mobile

The application works with Sonel LKD-2500 detector. It enables tracing of objects, recording of routes in the memory of the mobile device along with GPS positions of waypoints and additional readings.

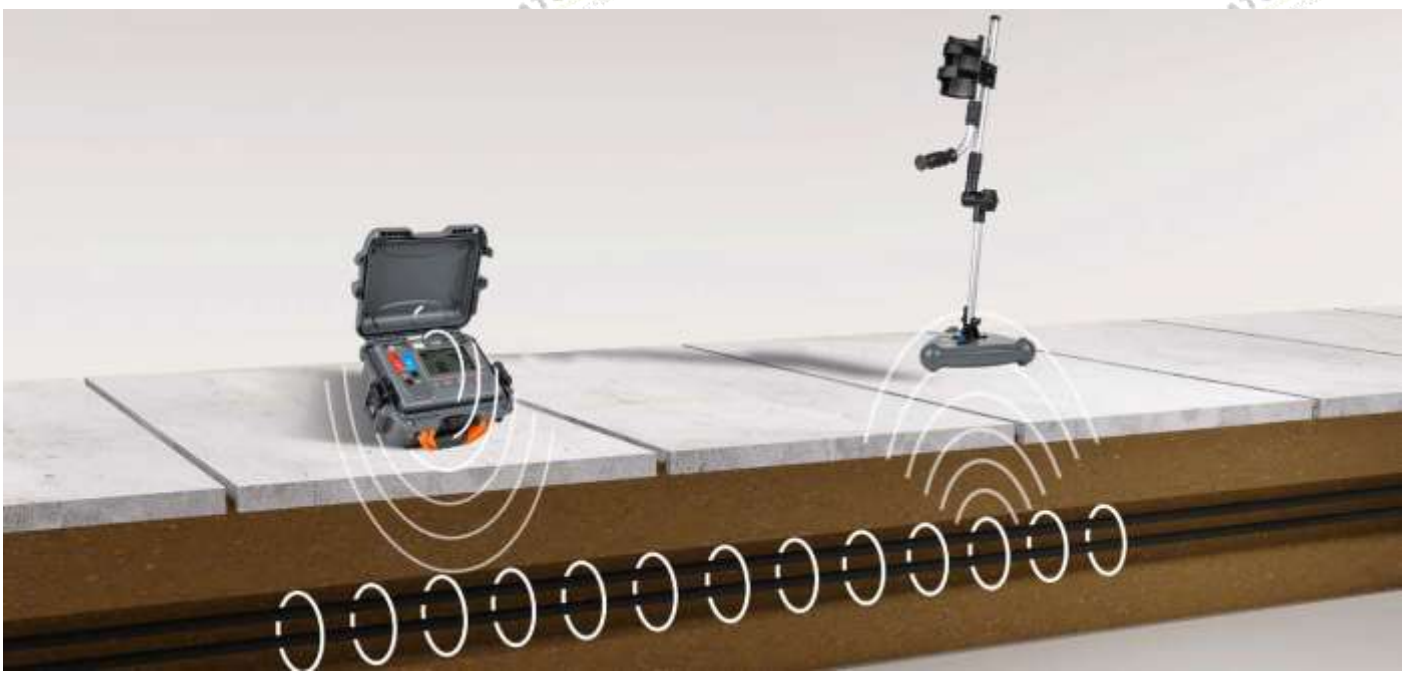
The application additionally enables:

- live positioning preview,
- measuring the distance to a specific waypoint,
- export of routes to other mobile devices,
- reading routes from the mobile device's memory,
- preview of all recorded parameters,
- merging routes,
- adding notes to routes and measurement points.



Technical specifications

LKN-2500 transmitter	
Ingress protection	IP67
Power supply	
Rechargeable battery	Li-Ion 7.2 V 9.8 Ah
Operating time when powered by a battery	max. 16 h
Transmission power	
Galvanic method	max. 3.6 W
Induction method	max. 84 VA
Dimensions	318 x 257 x 152 mm
Weight	3.4 kg
Operating temperature	-10…+50°C
Storage temperature	-20…+60°C
Reference temperature	23 ± 2°C
LKD-2500 detector	
Maximum depth of the analysed object	6 m
Depth measurement accuracy	
Power mode	10% m.v.
Radio mode	10% m.v.
Signal mode (8 kHz)	from 5% m.v.
Signal mode (32 kHz)	from 2.5% m.v.
Ingress protection	IP65
Power supply	
Rechargeable battery	Li-Ion 3.6 V 6.7 Ah
Operating time when powered by a battery	max. 13 h
Dimensions	290 x 275 x 100 mm
Weight	1.2 kg
Operating temperature	-10…+50°C
Storage temperature	-20…+60°C
Reference temperature	23 ± 2°C
Relative humidity	20...90%



"m.v." – measured value

Standard accessories

		LKZ-2500 WMGBLKZ2500	LKZ-2500 Start WMGBLKZ2500START	LKZ-2500 Lite WMGBLKZ2500LITE	LKD-2500 WMGBLKD2500
	**LKN-2500 transmitter** WMGBLKN2500	1	1	1	
	**LKD-2500 detector** WMGBLKD2500	1	1	1	1
	**Control panel** WAPOZTAB08	1			
	**Test lead 5 m 1 kV (banana plugs) red / blue** WAPRZ005REBB / WAPRZ005BUBB	2 / 1	2 / 1	2 / 1	
	**Crocodile clip 1 kV 20 A red / blue** WAKRORE20K02 / WAKROBU20K02	3 / 1	3 / 1	3 / 1	
	Ground probe 30 cm WASONG30	2	2	2	
	**Battery charger Z-7 + 230 V mains cable** WAZASZ7	1	1	1	
	**Battery charger Z-32** WAZASZ32	1	1	1	1
	**Carrying case L-10** WAFUTL10			1	1
	**Carrying case XL-1** WAFUTXL1	1	1		
	**Shoulder harness, design 1** WAPOZSZE7	1	1		
	**Short handle** WAPOZUCH14			1	1
	Long handle WAPOZUCH15	1	1		
	**Holder for control panel** WAPOZUCH16	1	1		
	**Declaration of verification**	1	1	1	1

Optional accessories

		LKZ-2500 WMGBLKZ2500	LKZ-2500 Start WMGBLKZ2500START	LKZ-2500 Lite WMGBLKZ2500LITE	LKD-2500 WMGBLKD2500
	**LKN-2500 transmitter** WMGBLKN2500				√
	**Control panel** WAPOZTAB08		√	√	√
	**N-1 transmitting clamp (fi 52 mm)** WACEGN1BB	√	√	√	
	**N-4 transmitting clamp (fi 110 mm)** WACEGN4	√	√	√	
	**N-5 transmitting clamp (fi 125 mm)** WACEGN5	√	√	√	
	**Transmission wire, 50 m** WAPRZPN50	√	√	√	
	**Transmission wire, 80 m** WAPRZPN80	√	√	√	
	**Carrying case XL-1** WAFUTXL1			√	√
	**Shoulder harness, design 1** WAPOZSZE7			√	√
	**Short handle** WAPOZUCH14	√	√		
	Long handle WAPOZUCH15			√	√
	**Holder for control panel** WAPOZUCH16			√	√