



**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



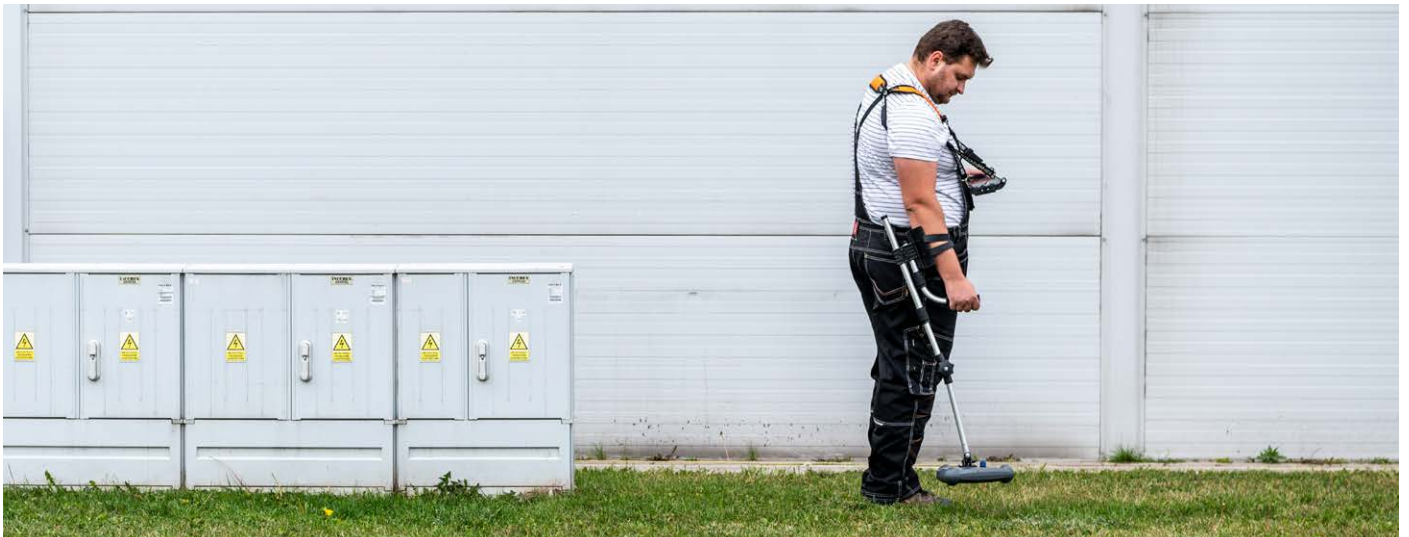
### LKZ-2500 Lite

includes transmitter, detector and short handle



### LKD-2500

includes detector and short handle



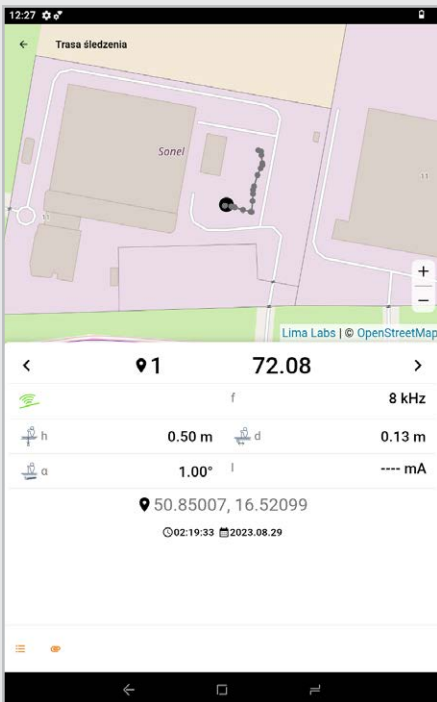


## LKN-2500 transmitter

- 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)

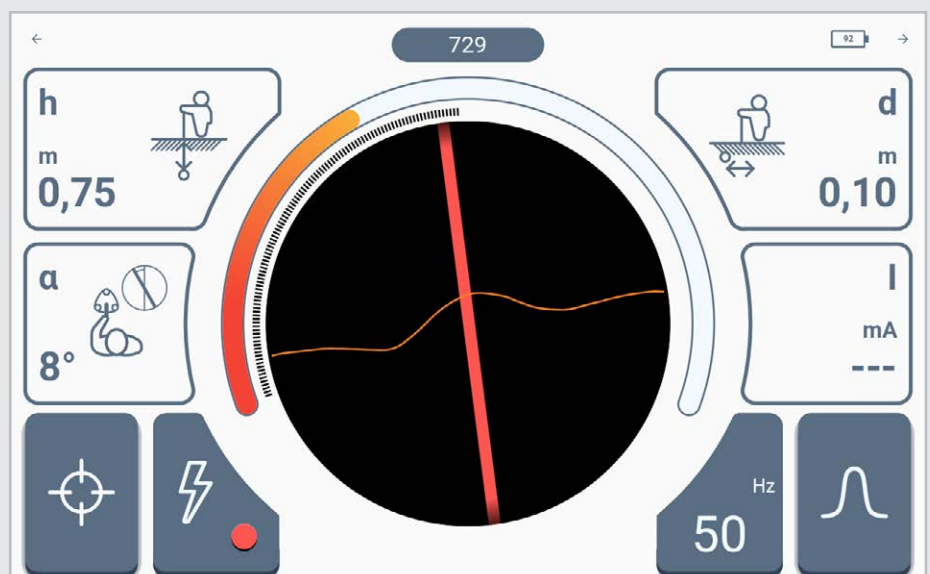


## Sonel LKZ Mobile

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

<b>Ingress protection</b>	IP67
<b>Power supply</b>	
Rechargeable battery	Li-Ion 7.2 V 9.8 Ah
Operating time when powered by a battery	max. 16 h
<b>Transmission power</b>	
Galvanic method	max. 3.6 W
Induction method	max. 84 VA
<b>Dimensions</b>	318 x 257 x 152 mm
<b>Weight</b>	3.4 kg
<b>Operating temperature</b>	-10...+50°C
<b>Storage temperature</b>	-20...+60°C
<b>Reference temperature</b>	23 ± 2°C
















## LKD-2500 detector

<b>Maximum depth of the analysed object</b>	6 m
<b>Depth measurement accuracy</b>	
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.
<b>Ingress protection</b>	IP65
<b>Power supply</b>	
Rechargeable battery	Li-Ion 3.6 V 6.7 Ah
Operating time when powered by a battery	max. 13 h
<b>Dimensions</b>	290 x 275 x 100 mm
<b>Weight</b>	1.2 kg
<b>Operating temperature</b>	-10...+50°C
<b>Storage temperature</b>	-20...+60°C
<b>Reference temperature</b>	23 ± 2°C
<b>Relative humidity</b>	20...90%















"m.v." – measured value

## Standard accessories

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

## Optional accessories

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