

USER MANUAL

TRANSPORTATION & STORAGE

SCOPE OF DELIVERY

ASSEMBLY

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OPERATIONS

MAINTENANCE

TROUBLESHOOTING

DISPOSAL

TECHNICAL SPECIFICATIONS

REPS & WARRANTIES

OKM[®] Delta Ranger

DETECTOR FOR TREASURE, GOLD AND CAVITY HUNT MODEL: DR-A01

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Do not drink any alcohol or take any drugs before or during the operation of the device and follow the instructions carefully!



NOTICE

Read all instructions first before commencing the assembly and usage!

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NOTICE

The search for historical and archaeological artifacts and structures may be regulated in different ways from state to state. Searching with a detector may require approvals and permissions from landowners, public agencies and/or government authorities.

With the purchase of the OKM detector you DO NOT automatically receive a detection permit or excavation permit!

Consult the authorities responsible for your search project and/or area for information on required permits.

NOTICE

All artifacts found on public lands are protected by state and federal laws. It is illegal to collect artifacts on public lands. Artifacts include anything made or used by humans including arrowheads and flakes, pottery, basketry, rock art, bottles, coins, metal pieces, and even old cans. Ancient objects that are found on private land are legal for individuals to collect with written permission from the landowner and legal for individuals to own under the Native American Graves Protection and Repatriation Act of 1990 (NAGPRA). However, these objects could be subject to a civil claim of superior title by a tribe. Other requirements depend on the state. If you are interested in collecting or metal detecting on private property, contact your State Historic Preservation Office for more information. Before collecting minerals found, familiarize yourself with the rules

stated on the Bureau of Land Management Website for your State.

1 TR 1.1 AVC 1.2 CH 2 SC 2.1 COI 2.2 AN 2.3 CH 2.4 WI 2.5 PR 3 AS 3.1 NE 3.2 AT 3.3 AT 3.4 DE **4 GE** 4.1 CH 4.2 PR 4.3 PA 4.4 OK 4.5 PA 4.6 SE 4.7 CA 4.8 SE

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TRANSPORTATION & STORAGE

Protect your detector and accessories by storing them in the Protector Case in a cool, dry place (50 to 75°F | 10 to 25°C). Unplug the probe from the Control Unit and power off the Control Unit before packing the device and its accessories into the case.



When shipping, use the original cartboard box or similar heavy-duty container and provide sufficient padding around all parts.



1 TRANSPORTATION AND STORAGE

Use the Protector Case for the intended purpose only. Keep away from children!

DANGER

CHOKING AND ASPHYXIATION HAZARD! A Cover is Not a Toy! Keep Away from Children!

1.1 AVOID EXTREME TEMPERATURES AND MOISTURE



Protect your device from extreme temperatures as well as dust and moisture during transportation and storage.

1.2 CHECK BATTERY STATUS REGULARLY

Check the detector regularly if it is not used for a long time. When storing the Delta Ranger for long periods of time, avoid completely discharging of the batteries. Instead, recharge the battery at least every 3 months and up to approx. 90% of the maximum charge capacity.

2 SCOPE OF DELIVERY AND CONTROL ELEMENTS

SCOPE OF DELIVERY

OKM

The scope of delivery depends on the selected model version: Light or Professional.

		Light	Professional
I	Control Unit	\checkmark	\checkmark
	Android Smartphone with OKM App	\checkmark	\checkmark
	Charger	\checkmark	\checkmark
IV	Travel Adapter	\checkmark	\checkmark
V	Headphones with charging cable	\checkmark	\checkmark
VI	Long-Range Probe (L)	\checkmark	\checkmark
VII	Thermo Probe (T)		\checkmark
VIII	Ground Scan Probe (G)		\checkmark
IX	Notebook with OKM Visualizer 3D Studio		\checkmark
Х	Protector Case	\checkmark	\checkmark



2.1 CONTROL UNIT



- Smartphone Mount see 3.3 Attach Smartphone on page 11.
- LED Lighting to illuminate dark areas.
- III Probe Fitting with Probe Socket to ensure that the probe is plugged in correctly see 3.2 Attach Probe on page 11.
- Charger Socket (USB-C) to charge the Control Unit with LED Indicator to show the charging state while charging the internal battery see 4.1 Charge Internal Batteries on page 13. IV
- Label with device information like Serial Number and Model Number see 6.3 Register/Verify Detector on page 47.
- Laser Pointer to set the crosshairs position see 4.6 Set Crosshairs Position on page 17. VI
- Knob to calibrate the Bionic Sensors see 5.4.1 Calibrate Bionic Sensors on page 24. VII
- VIII Trigger with LED to switch the Control Unit on and off. Control and confirm various functions. The ring-shaped LED indicates 4 connection states:

The Control Unit is switched on and waiting for a connection. No probe is connected and the App is not connected. Flashing Green Permanently Green The Control Unit is switched on and successfully connected to the probe, but the App is not connected. Flashing Blue The Control Unit is switched on and connecting/connected to the App, but no probe is connected.

- The Control Unit is switched on and successfully connected to the probe and to the App. Permanently Blue
- IX Handle with Electrodes see 5.4.1 Calibrate Bionic Sensors on page 24.

2.2 ANDROID SMARTPHONE

The Control Unit is controlled via an Android smartphone App. For detailed information refer to the respective sections in this manual. For further settings and information beyond the use of the OKM App, refer to the smartphone manual.

2.3 CHARGER AND TRAVEL ADAPTER

2.4 WIRELESS HEADPHONES





OKM

The Control Unit is charged via charger. For detailed information refer to 4.1 Charge Internal Batteries on page 13. In some countries the use of the Travel Adapter may be required.

The Android smartphone can be paired with wireless headphones via Bluetooth. For detailed information refer to 4.5 Pair Wireless Headphones on page 17. For further settings and information, refer to the smartphone and headphones manuals respectively.

2.5 PROBES

The OKM Delta Ranger is equipped with various probes according to the acquired edition:

Probe Label Probe Connector Notch

For correct assembly see 3.2 Attach Probe on page 11.



2.6 PROTECTOR CASE

The device and its accessories are stored and transported in a Protector Case see 1 TRANSPORTATION AND STORAGE on page 5. For further information, refer to the Protector Case Care and Instructions.

ASSEMBLY



Probes shall always be attached in the prescribed way matching the Probe Socket Pins.





3 ASSEMBLY

3.1 NECESSARY TOOLS

No additional tools are required to assemble the OKM Delta Ranger.

Do not open the device and/or accessories. There are no end user serviceable parts inside.

3.2 ATTACH PROBE

NOTICE

Make sure the Probe Connector and Socket Pins are clean before assembly!

Depending on the measurement, attach the probe to the Probe Socket:





Plug the Probe Connector into the ProbePush carefully until the notch snaps in with aSocket. Note the correct position of the pins!noticable click sound.

3.3 ATTACH SMARTPHONE



Lift the Smartphone Mount.

3.4 DETACH PROBE



Press and hold the notch of the Probe Connector to release the Probe.



Attach the smartphone to the magnet.



Pull out the Probe carefully as specified by the Probe Fitting.

GETTING STARTED









4 GETTING STARTED

4.1 CHARGE INTERNAL BATTERIES

Fully charge the Control Unit and the smartphone.

To charge the internal batteries, connect the charger from the power supply to the designated Charger Socket. Use the Travel Adapter to enable a connection between the charger and a non-compatible wall socket.

The charging progress is indicated by the LED light next to the Charger Socket: Orange when charging, and Green when fully charged.

It can take up to 4 hours to fully charge the battery.

2

Locate the Charger Socket.



Plug in the Charging Cable (USB-C).

Charge the smartphone via charging cable.

4.2 PREPARE ANDROID DEVICE AND APP

The OKM Delta Ranger is by default equipped with a pre-configured Android smartphone with pre-installed and activated OKM Delta Ranger App.

You may install and activate the OKM App if:

- you want to use your own Android device.
- you want to add further Android devices.
- you reset the pre-configured Android device.
- you have technical problems with the OKM App.

4.2.1 Download and Install OKM App

The OKM Delta Ranger App is usually pre-installed on the included Android smartphone. Browse the Apps in your smartphone to make sure the required OKM App has not yet been installed.

- Get the Download File from the OKM online store or contact OKM Support.
- Download the OKM App to the Android device.
- Install the OKM App on the Android device.
- After successful installation, start the App, select Settings from the main menu and start Update by tapping on the icon.
- After successful update, restart the App and proceed with the Activation see 4.2.2 Activate OKM App on page 14.

4.2.2 Activate OKM App



â â O EN)0.0 01-1 2 QR Code

If you have received a QR Code from OKM for Use the smartphone camera to scan the an automatic activation, select QR Code.

â

3

QR Code that you received with the detector.

Select Activate App from the Settings menu.





	Acti	vation C	ode		
_				_	~
7	8	9	A	в	
4	5	6	С	D	0
1	2	3	E	F	
0	•	3	-		
	7 4 1 0	Acti	Activation 0 7 8 9 4 5 6 1 2 3 0 63	Activation Code 7 8 9 A 4 5 6 C 1 2 3 E 0 63	Activation Code

If you have problems using the QR Code or you Enter the OKM Delta Ranger Serial Number. do not have a QR Code, select Manual.

Enter the OKM Delta Ranger Activation Code.







(i)

Confirm the activation by tapping on 🗸

If the activation failed, try again. Make sure that all entered data are correct.

4.3 PAIR ANDROID DEVICE WITH DETECTOR





Press the trigger to power on the Control Unit. Power on the smartphone. Tap on the OKM Delta Ranger App icon to start the application.

The App automatically establishes a connection to the Control Unit, if activated correctly.



- Menu Icon shows the active menu. Tap to return to the main menu. The headline shows the active menu or option. App Connection Status indicates the connection status between App and Control Unit. 🔅 not connected CR 🖉 connecting 🔗 connected LED Lighting: Tap on the icon to toggle between ON and OFF: IV **Q** OFF (default) ۵N Smartphone Battery Status battery level VI Control Unit Battery Status battery level critical 🖡 charging 2 unknown
 - VII Language Code shows the selected language see 4.8.1 Language on page 19.
- VIII Navigation Sidebar: Tap on the arrows to browse through the options. The dots indicate the number of available options.
- IX Selectable Option: Tap on the icon to enter the menu or launch the option.
- X Return to the previous menu.

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4.5 PAIR WIRELESS HEADPHONES

The acoustic feedback of the detector can be provided by headphones instead of smartphone speakers in order to avoid attracting attention. Connect wireless headphones by pairing with the smartphone:

Settings > Connected devices > Pair new device > Available devices > [Bluetooth Headphones]





These settings may vary from one smartphone to another. Refer to your smartphone manual if you have trouble pairing headphones.

4.6 SET CROSSHAIRS POSITION



Crosshairs Calibration is used to align the reticle (crosshairs) on the smartphone screen with the laser dot on a distant object. This calibration is recommended before performing a new measurement and every time you have changed the smartphone position on the Control Unit.

Make sure you have powered on the Control Unit and plugged in the Long-Range Probe (L) or Thermo Probe (T).



Select Settings from the main menu and tap The laser pointer is enabled as soon as you on the Crosshairs Calibration icon.

confirm with 🧹 .



Point the probe at a distant object so that you Drag the crosshairs to the correct position can clearly see the red laser dot.

on the smartphone screen: Center the crosshairs on the red laser dot. Confirm with 🛞.

4.7 CALIBRATE COMPASS

Compass Calibration ensures that the cardinal directions are displayed correctly. This calibration is recommended every time you have restarted the detector. Keep at least 160 ft (50 m) distance from ferromagnetic interferences (e.g. power lines, electric fence).



Select Settings from the main menu and tap Make sure to hold the Control Unit on the Compass Calibration icon.

horizontally.



 \bigcirc To calibrate the compass, rotate slowly and completely around yourself with the detector in your hand. **i i** Calibrating . \leftarrow

Press the trigger and rotate slowly around your own axis ...

... while the calibration screen is visible. Avoid pivoting or swinging during calibration.



4.8 SETTINGS

The following preferences and configurations are available via the **Settings** menu:

Language	see 4.8.1 Language on page 19
Sound	see 4.8.2 Sound on page 19
Vibration	see 4.8.3 Vibration on page 19
GPS	see 4.8.4 GPS on page 19
App Theme	see 4.8.5 App Theme on page 20
Length Unit	see 4.8.6 Length Unit on page 20
Temperature Unit	see 4.8.7 Temperature Unit on page 20

Crosshairs Calibration see 4.6 Set Crosshairs Position on page 17

\bigotimes	Compass Calibration	see 4.7 Calibrate Compass on page 18
	Activation	see 4.2.2 Activate OKM App on page 14
다	Update	see 6.2 Check for App Updates on page 47



The selected language is indicated in the toolbar with the 2-letter-code according to ISO-639-1:

4.8.2 Sound

±

ume

TOUCH SOUNDS are adjusted via smartphone: Settings > Sound > Advanced > Touch sounds.

These sound settings may vary from one smartphone to another. Refer to your smartphone's manual if you have trouble adjusting the volume and touch sounds.



4.8.1 Language

♀ 📲 🖬 Use the 🔷 buttons to loop through the available languages. The selection is automatically applied as soon as you return to the previous menu by tapping \leftarrow or proceed to the next settings option by tapping \checkmark .

(AR) يبرع	Español (ES)	Po
български (BG)	(FA) ەسراف	P
Deutsch (DE)	Français (FR)	Τi
Ελληνικά (EL)	Italiano (IT)	中
English (EN)	日本語 [JA]	

Polski (PL) усский (RU) Türkçe (TR) **Þ文** (ZH)

The App provides acoustic feedback for various functions. Tap on the switch to toggle between **ON** and **OFF**. To avoid attracting attention you may use Bluetooth headphones (see 4.5 Pair Wireless Headphones on page 17) or select Sound OFF.



VOLUME is adjusted via smartphone volume control buttons or Settings > Sound > Media Vol-

4.8.3 Vibration

Tap on the switch to toggle between **ON** and **OFF**.

The operating modes Bionic Stream, Ionic Stream, and Magnetometer provide vibration feedback (via smartphone).



4.8.4 GPS

GPS coordinates can be logged for 3D Ground Scan and Thermo Scan, and will be saved as scan file Meta Data for further documentation in the Visualizer 3D Studio software. Tap on the switch to toggle between **ON** and **OFF**.



4.8.5 App Theme

Tap on the switch to toggle between **Day Mode** and **Night Mode**.

Day Mode is recommended in very bright environments. **Night Mode** is recommended in dark conditions and allows to remain inconspicuous in the dark.





4.8.6 Length Unit

Tap on the switch to toggle between Imperial and Metric.

Imperial indicates all dimensions in feet (ft). Metric indicates all dimensions in meters (m).



4.8.7 Temperature Unit

Tap on the switch to toggle between **°Fahrenheit** and **°Celcius**.



NOTES

OPERATIONS

5 OPERATIONS

5.1 PACEMAKERS

OKM Delta Ranger is a passive measuring instrument that does not emit magnetic waves. Clarify possible interferences with your medical doctor if you are wearing a pacemaker or similar medical device.

Magnetic fields and metallic objects influence the scan results. Keep the detector at least 160 ft (50 m) away from magnetic fields, electric motors, speakers, phones, keys, and jewelry.

Remove visible metallic objects such as cans, nails, screws or debris from your scan field before performing measurements with the detector.



Once you get a clear target signal, excavate the area around the target object carefully to prevent damage to a potential rare find and minimize the possibility of accidentally detonating old ammunition.

Note the color of the soil close to the surface: A reddish color can be an indicator of rust trace of various kinds of fuses.

Pay attention to the shape of target objects: Curved or round objects can be coins or wedding bands, but may also be parts of ammunition. If you identify buttons, rings or little pegs, excavate particularly carefully.

5.2 CAUTION DURING EXCAVATION

Do not touch detected ammunition! Report it to the police!

DANGER

5.3 OPERATING MODES

The following operating modes are available in the OKM Delta Ranger App:

e Maria	Bionic Stream	see 5.4 Bionic Stream on page 24
×	Ionic Stream	see 5.5 Ionic Stream on page 26
۰	Magnetometer	see 5.6 Magnetometer on page 28
	3D Ground Scan	see 5.7 3D Ground Scan on page 30
	Thermo Scan	see 5.8 Thermo Scan on page 38
<u></u>	Thermo Stream	see 5.9 Thermo Stream on page 42
	File Explorer	see 5.11 File Transfer on page 45

The operating modes are activated as soon as the correct probe is connected.

5.4 BIONIC STREAM

Use the operating mode Bionic Stream to detect recently buried gold objects, long-time buried gold as well as golden artifacts that are buried at long distances.



Make sure you have plugged in the Long-Range Probe (L).



5.4.1 Calibrate Bionic Sensors



Start the operating mode *Bionic Stream* by Grasp the handle with your leading hand. tapping on the option in the App main menu.

Make sure that palm and fingers touch the electrodes.



With the other hand, turn the Knob very gently to calibrate the Bionic sensors.



Set a value within the green range - ideally reach the highest possible value close to 254. Make sure to keep the value stable for at least 3 seconds. Confirm with 🧹.

If contact to the electrodes is lost during calibrating or measuring, repeat the calibration by tapping on 🐒.

5.4.2 Measurement Screen







Enable the laser pointer for 5s as an additional tool for aiming at the target object. You may correct the crosshairs position via Settings – see 4.6 Set Crosshairs Position on page 17. æ

Change Reticle (crosshairs): Tap to change the reticle design. Choose from 5 different options. Your choice is saved automatically.

Recalibrate Bionic Sensors, see 5.4.1 Calibrate Bionic Sensors on page 24.

 \leftarrow Exit Bionic Stream and return to the main menu.

Before performing a measurement, make sure you have set the crosshairs position according to your planned scan zone. You may recalibrate the crosshairs whenever you like.

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5.4.3 Perform Triangulation Measurement

Triangulation (or Cross Bearing) uses two or more points simultaneously to fix a position. This procedure helps to determine a potential target spot more precisely and to verify detected target spots.



Hold the Probe horizontally.



Scan the area from the first position.



Move the Probe slowly from side to side ...



... as well as up and down.



A hit is signaled by: acoustic feedback (if Sound is enabled) vibration (if Vibration is enabled) visual feedback (flashy crosshairs)



Perform a Control Scan from a different direction at about 80 to 1600 ft (25 to 500 m) distance from your first spot.



Before proceeding with the measurement, you may recalibrate the crosshairs position see 4.6 Set Crosshairs Position on page 17 - and the Bionic Sensors - see 5.4.1 Calibrate Bionic Sensors on page 24.



As soon as you get a hit on the same target spot, it is likely it is a potential target.

You may perform further control scans to verify the target spot.

5.5 IONIC STREAM

Use the operating mode lonic Stream to detect gold objects that have been buried for a long time.



Make sure you have plugged in the Long-Range Probe (L).

This operating mode allows horizontal probe orientation.

5.5.1 Calibrate Ionic Sensors



Start the Operating Mode *lonic Stream* by tapping on the option in the App main menu.

Place a reference object – an object made of the same material you are looking for – in front of you. Aim at it with the probe heading to the North.



Keep a distance of about 4" (10 cm) between the tip of the probe and the reference object.



Confirm by tapping on the focus zone (alternatively by pressing the trigger or tapping on). Keep aiming at the object and wait until the countdown has finished.

5.5.2 Measurement Screen





Enable the laser pointer for 5s as an additional tool for aiming at the target object. You may correct the crosshairs position via Settings - see 4.6 Set Crosshairs Position on page 17.





Recalibrate Ionic Sensors, see 5.5.1 Calibrate Ionic Sensors on page 26.

 \leftarrow Exit Ionic Stream and return to the main menu.

Before performing a measurement, make sure you have set the crosshairs position according to your planned scan zone. You may recalibrate the crosshairs whenever you like.



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5.5.3 Perform Triangulation Measurement

Triangulation (or Cross Bearing) uses two or more points simultaneously to fix a position. This procedure helps to determine a potential target spot more precisely and to verify detected target spots.

Move the probe slowly from side to side .



.. as well as up and down.



For best measurement results, scan into the natural ion stream of the geomagnetic field: always pointing to the South, Southeast or Southwest.



Measure perpendicular to the ground. Avoid pointing the detector too high or too low.



A hit is signaled by: acoustic feedback (if Sound is enabled) vibration (if Vibration is enabled) visual feedback (flashy crosshairs)



Perform a Control Scan from a different direction at about 80 to 1600 ft (25 to 500 m) distance from your first spot.



Before proceeding with the measurement, you may recalibrate the crosshairs position.



As soon as you get a hit on the same target spot, it is likely it is a potential target.

You may perform further control scans to verify the target spot.

5.6 MAGNETOMETER

Use the operating mode Magnetometer to detect small metal objects like nails, screws and wires made of ferromagnetic materials such as iron, nickel and cobalt close to the surface. Remove these items from the scan field before performing further scans!

The fewer small metal items in the soil, the deeper you can detect targets with 3D Ground Scan.

Moreover, use Magnetometer to pinpoint objects during excavation.



5.6.1 Prepare Measurement



Point the probe to a neutral (non-ferrous and Start the operating mode *Magnetometer* by non-magnetic) surface.

tapping on the option in the App main menu.

5.6.2 Measurement Screen









If the signal becomes unstable, point the probe to a neutral (non-ferrous and non-magnetic) surface ...

5.6.3 Perform Measurement

Hold the probe vertically. Move the detector back and forth ...

Move the detector to the sides ...



... but do not pivot, swing or rotate the probe.

... but keep the orientation of the probe

parallel to your starting orientation.



... and press the trigger or tap on 📩 to perform a Ground Balance. The bar graph is immediately reset to the zero line.

In Ferro Pointer View, tap on 👬 or press the trigger to reset the indicator.

5.6.4 Interpret Measurement

Magnetometer provides

- acoustic feedback (if Sound is enabled).
- vibration feedback (if Vibration is enabled) and
- a basic visual representation.

As soon as you get a clear signal, the device has detected a potential metal target in front of (horizontal measurement) or below (vertical measurement) the probe respectively.

As soon as the probe is very close to the detected object, the values reach its peak and indicate a hit with vibration.



The bar graph shows BLUE peaks if the probe is pointing at the negative magnetic pole of a ferrous object.

The bar graph is in the GREEN range (close to zero magnetic target object.

The bar graph shows RED peaks if the probe is pointing line) if there is no ferrous or at the positive magnetic pole of a ferrous object.



The indicator is in the BLUE zone if the probe is pointing at the negative magnetic pole of a ferrous object.



The indicator is in the GREEN zone if there is no ferrous or magnetic target object.



The indicator is in the RED zone if the probe is pointing at the positive magnetic pole of a ferrous object.

5.7 3D GROUND SCAN

Use the operating mode 3D Ground Scan to get a detailed visualization of underground structures and potential target objects for further analysis in Visualizer 3D Studio.

Learn more in the 3D Ground Scan Guide.

5.7.1 Configure Measurement

G Make sure you have connected the Ground Scan Probe (G).

This operating mode allows vertical and horizontal (short-range) probe orientation.



1 ft ... 160 ft: The length is defined before the scan. All lines will stop automatically.

Automatic: The impulses (scan values) will be recorded continuously without any break.

Zigzag: Scan all scan lines forwards and backwards alternately.

5.7.2 Perform Default 3D Ground Scan

The default parameters Field Length: Auto | Impulse Mode: Automatic | Scan Mode: Parallel are recommended for entry-level detector users and allow scanning in slightly sloping terrain.



Go to the starting point of the first scan line (bottom right corner).

Press the trigger to start scanning. Start walking as soon as you press the trigger.

Walk to the end of the first scan line. Press the trigger as soon as you reach its end to set the field length for the following lines.

Return to your first starting point without scanning and take one step to the left: This is the starting point of the second scan line.

Press the trigger to start scanning. Start walking as soon as you press the trigger.

Walk parallel to your first scan line and at the same speed. The impulse sound should stop at the end of the line.

the scan line.

The scan image will be generated line by line to help you to follow your progress while measuring.

The first scan lines may initially look incorrect. However, the inconsistent scan image will stabilize in the course of the scan.





- Return to the last starting point and take a step to the left (without scanning): This is the starting point of the next scan line.
- Press the trigger to start scanning and walk at the same speed until you reach the end of
- Repeat this to scan as many lines as you like.



- Complete the measurement by tapping on Finish Scan 📕.
- Confirm saving with 🗸 or discard the scan with 🗙.

If you chose to save the scan, enter the Field Length and Field Width that you actually measured.

5.7.3 Perform Zigzag 3D Ground Scan

The parameters Field Length: Individual | Impulse Mode: Automatic | Scan Mode: Zigzag are recommended for advanced detector users and can be applied in flat terrain.



Go to the starting point of the first scan line (bottom right corner).

Press the trigger to start scanning. Start walking as soon as you press the trigger.

Walk the first line at a constant speed. The App stops recording values automatically as soon as reaching the preset field length and indicates this by a noticeable sound signal.

Remain at the end of the scan line and take a step to the left (without scanning). Keep holding the probe in the same direction as in the first scan line.

Press the trigger to start scanning. Walk parallel to your first scan line but in reverse until you reach the end of the scan line.

Walk at the same speed as in the first scan line. The impulse sound should stop as soon as you reach the end of the line.

In Scan Mode Zigzag all scan lines are scanned by walking forwards and backwards. However, the scan lines shall still be parallel to each other and the probe shall always point in the same direction.

the scan line.

Repeat steps 3 to 5 to scan as many lines as you like: Odd scan lines forwards, even scan lines backwards.

Follow the App instructions to scan in the correct direction.

The scan image will be generated line by line to help you to follow your progress while measuring.

The first scan lines may initially look incorrect. However, the inconsistent scan image will stabilize in the course of the scan.











-Press the Trigger to start scanning! ## 5 Finish Scan



0



Remain at the end of the scan line and take a step to the left (without scanning).

Press the trigger to start scanning. Walk parallel to the first scan line (forwards) and at the same speed until you reach the end of

Complete the measurement by tapping on Finish Scan 📕

Confirm saving with 🗸 or discard the scan with 🗙.

If you chose to save the scan, check and correct/confirm the preset Field Length and enter the Field Width.

10 ft

•

 $\mathbf{\vee}$

5.7.4 Perform Manual 3D Ground Scan

The parameters Field Length: Auto | Impulse Mode: Manual | Scan Mode: Parallel are recommended for rough terrain.





Go to the starting point of the first scan line (bottom right corner).

When using Impulse Mode Manual each single impulse (scan value) is released manually one by one by pushing the trigger.

Press the trigger to start the measurement. Take a step forward and press the trigger again to record an impulse.

Continue in this way until you reach the end of the first scan line. Tap on Finish Scan Line # to set the field length.

The scan image will be generated line by line to help you to follow your progress while measuring.

The first scan lines may initially look incorrect. However, the inconsistent scan image will stabilize in the course of the scan.



Return to your first starting point without scanning and take one step to the left: This is the starting point of the second scan line.

Press the trigger to record the first impulse of your second scan line.



Take a step forward and press the trigger again to record the next impulse. Continue until you reach the end of the scan line.

Scan parallel to your first scan line with the probe heading into the same direction as in the first scan line.

The App indicates the end of the scan line.

- Return to the last starting point and take a step to the left (without scanning): This is the starting point of the next scan line.
- Press the trigger to start scanning. Release an impulse at each step forward until you reach the end of the scan line.
- Repeat this to scan as many lines as you like.
- Complete the measurement by tapping on Finish Scan 📕

Confirm saving with 🗸 or discard the scan with 🗙.

If you chose to save the scan, enter the Field Length and Field Width that you actually measured.

5.8 THERMO SCAN

Use the operating mode Thermo Scan to visualize hidden structures such as rooms, caves and tunnels based on noticeable temperature deviations of surfaces. These visualizations allow further analyses in Visualizer 3D Studio.

5.8.1 Configure Measurement

TG

Make sure you have connected the Thermo Probe (T).

This operating mode allows horizontal (short-range) and vertical probe orientation.



1 ft ... 160 ft: The length is defined before the scan. All lines will stop automatically.

Automatic: The impulses (scan values) will be recorded continuously without any break.

Zigzag: Scan all scan lines forwards and backwards alternately.

5.8.2 Perform Zigzag Thermo Scan

The parameters Field Length: Auto | Impulse Mode: Automatic | Scan Mode: Zigzag are recommended for fast measurements with horizontal probe orientation.

For measurements with vertical probe orientation refer to 5.7.2 Perform Default 3D Ground Scan on page 32.





Point the probe at the starting point of the first scan line (bottom right corner).

Press the trigger to start the first scan line. Start moving the probe upwards as soon as you press the trigger.



Move the probe upwards at a constant speed following an imaginary line to the end of your scan field.

Press the trigger as soon as you reach the end of your scan line to set the field length for the following lines.

The scan image will be generated line by line to help you to follow your progress while measuring.

The first scan lines may initially look incorrect. However, the inconsistent scan image will stabilize in the course of the scan.



Keep pointing the probe at the end of the scan line. Take a step to the left (without scanning). The probe now points at the next starting point.



Press the trigger to start scanning. Move the probe parallel to your first scan line but downwards until you reach the end of the scan line.

Move the probe at the same speed as in the first scan line. The impulse sound should stop as soon as you reach the end of the line.

In Scan Mode Zigzag all scan lines are scanned by moving the probe upwards and downwards. However, the scan lines shall still be parallel to each other.

scanning).

Press the trigger to start scanning. Move the probe parallel to the first scan line (upwards) and at the same speed until you reach the end of the scan line.

Repeat steps 3 to 5 to scan as many lines as you like: Odd scan lines upwards, even scan lines downwards.

Follow the App instructions to scan in the correct direction.











Keep pointing the probe at the end of the scan line and take a step to the left (without







Complete the measurement by tapping on Finish Scan 📕

Confirm saving with 🗸 or discard the scan with 🗙.

If you chose to save the scan, enter the Field Length and Field Width that you actually measured.

5.9 THERMO STREAM

Use the operating mode Thermo Stream for initial explorations of unknown locations to detect structures such as hidden rooms, caves and tunnels behind walls and in the underground based on noticeable surface temperature deviations.

LTG	Make sure you have c
+-+	This operating mode probe orientation.

connected the Thermo Probe (T).

e allows horizontal (short-range) and vertical

5.9.1 Perform Measurement



Start the operating mode *Thermo Stream* by Point the probe at a referential target object tapping on the option in the App main menu. (e.g. a wall).



Check the point cloud position by tapping on the laser pointer icon 🙀.

To correct the position see 4.6 Set Crosshairs Position on page 17.



Move the probe freely and point it on any target object or area that you want to measure.



The temperature of the target object is indicated by

- the colored point cloud,
- the pointer on the temperature scale,
- as measured value.









5.9.2 Measurement Screen



Enable the laser pointer for 5s as an additional tool for aiming at the target object. You may correct the Point Cloud position via Settings – see 4.6 Set Crosshairs Position on page 17.

Change Point Cloud Opacity: Adjust the transparency in 3 levels to see target objects in the background more clearly. The default is set to an intermediate value.

Exit *Thermo Stream* and returning to the main menu.

5.10 FILE EXPLORER

Use File Explorer to view your stored scan files directly on the smartphone and to open them for an initial evaluation. To view scan files, no connection to the Control Unit is required.



Start File Explorer by tapping on the option in the App main menu.



- Use the up and down arrows to browse through the saved Thermo Scan .
- . and 3D Ground Scan files. Tap on the preview image to open the scan.

5.10.1 Review 3D Ground Scan



3D Ground Scan Top View (2D)

3D Ground Scan Perspective View (3D)

Use intuitive gestures to review the 3D Ground Scan image on the smartphone in detail:

- Rotate: Drag by moving one fingertip over the screen to rotate the scan image.
- Move: Touch with two fingers and drag the scan image to the desired spot.
- Scale: Pinch to zoom out and spread to zoom in.



 \leftarrow Exit the scan file and return to the File Explorer.

For a more detailed analysis, transfer the scan files to a Windows notebook and open them in Visualizer 3D Studio - see 5.11 File Transfer on page 45.





 \leftarrow

OKM

5.10.2 Review Thermo Scan



Thermo Scan Top View (2D)

Thermo Scan Replay in progress

Thermo Scan maps measured surface temperatures in a 2D image.

Number of Scan Lines performed in this measurement. During Replay, the current number is displayed corresponding to the scan image.

Number of Impulses per scan line.

During Replay, the current number is displayed corresponding to the scan image.

Replay the measurement to track the progress of the scan image over the course of the measurement.

Replay in progress: The percentage shows how much of the scan image has already been processed. Tap on the icon to cancel replay and show the complete scan image.

Exit the scan file and return to the File Explorer.

For a more detailed analysis, transfer the scan files to a Windows notebook and open them in Visualizer 3D Studio – see 5.11 File Transfer on page 45.

5.11 FILE TRANSFER

The saved OKM scan files are stored in the smartphone's internal memory: Internal Storage > Documents > OKM > DeltaRanger > groundscan Internal Storage > Documents > OKM > DeltaRanger > thermoscan

Transfer the scan files by connecting the smartphone with the Notebook via USB cable. To transfer scan files, no connection to the Control Unit is required.

On your smartphone, enable USB connection to transfer any files:



Swipe down to open the notification.

Tap for more options.

Set the USB Preferences to File Transfer.

After successfully setting the USB preferences to file transfer, open the File Explorer on the Notebook and access the internal storage:

My PC > [Smartphone] > Internal shared storage > Documents > OKM > DeltaRanger BV6300Pro

Copy the scan files to the notebook and open the files in Visualizer 3D Studio.

If the smartphone is not displayed in My PC, make sure the drivers in Windows are set correctly (see Windows Device Manager).

6 MAINTENANCE



damages.



MAINTENANCE

 \blacksquare OKM

WARNING

ELECTRICAL HAZARD! Keep water away from electronic components and cables.

6.1 CHECK AND CLEAN CONTROL UNIT AND PROBES

To always get the best performance from your detector, clean it regularly and check it for

- Keep the Control Unit and probes away from strong magnetic fields.
- Avoid penetrating water, dust and dirt. If you cover the Control Unit with a plastic bag, make sure it can 'breathe' to avoid overheating and condensation inside.
- Check for blockages in the probe socket, charger socket and the probe connectors and remove any dirt and particles.
- Clean the Control Unit and probes with a soft, damp, lint-free cloth after each use. Do not use detergents or polishes.
- Recharge the batteries regularly, see 4.1 Charge Internal Batteries on page 13.

6.2 CHECK FOR APP UPDATES



- Make sure the smartphone Wi-Fi is enabled Tap on Update App to start searching for new and connected to the internet.
- Select Settings from the Main Menu.

updates. If you have the latest version or an error occurred, confirm the message by tapping on 🗸 . Otherwise, download and install the new update.

6.3 REGISTER/VERIFY DETECTOR

In order to register your detector and/or verify the detector authenticity, the manufacturer OKM GmbH requires information about your device. You can find these in the Information menu:

- App Version / Firmware
- Serial Number
- OKM contact information



Get more information on registration and verification at www.okmdetectors.com/service

6.4 MAINTENANCE AND REPAIR BY OKM

Do not attempt to repair the device yourself. In case of technical problems, first read chapter 7 TROUBLESHOOTING on page 49. If your problem is not listed or can not be resolved, contact your local dealer (listed at www.okmdetectors.com/dealers) and/or the manufacturer

OKM GmbH	Web:	www.okmdetectors.com	Facebook:	okmmetaldetectors
Julius-Zinkeisen-Str. 7	Email:	info@okmdetectors.com	Instagram:	okmdetectors
04600 Altenburg	Phone:	+4934474993000	YouTube:	okmdetectors
Germany	Whats/	App/SMS: +491624192147		

Repairs should always be carried out by authorized personnel, e.g. your dealer and/or the manufacturer. This requires prior consultation.

If the device is defective and it's a warranty case, refer to 10 REPS & WARRANTIES on page 58. If the device is defective but it is not a warranty case, you may use the service OKM Device Check, which includes:

- 1. After prior consultation, send the device to your local dealer or to OKM in compliance with the transport instructions in 1 TRANSPORTATION AND STORAGE on page 5.
- 2. Authorized OKM personnel checks the functionality of the device.
- 3. If a defect is found, a repair cost estimate is provided to you.
- 4. You agree to authorize the repair or reject the offer.
- 5. You receive your device back. The customer is responsible for shipping costs and insurance.

7 TROUBLESHOOTING

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TROUBLESHOOTING

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)R	POSSIBLE PROBLEM	SOLUTION
ontrol Unit does not power on.	The internal battery is low or empty.	Charge the battery – see 4.1 Charge Internal Batteries on page 13.
	The ambient temperature is too low or too high.	Your device won't operate if the ambient temperature is below 14 °F (-10 °C) or higher than 140 °F (60 °C).
ontrol Unit does not power off.	The trigger has been released too early.	Keep the trigger pressed for at least 3 seconds to switch off the detector.
ontrol Unit does not start charging.	The ambient temperature is too low or too high. The cable may be damaged.	Your device won't charge if the ambient temperature is below 14°F (-10°C) or higher than 140°F (60°C). Ensure a temperature between 50 and 77°F (10 and 25°C) and wait until possible condensation (moisture) has evaporated before you start charging or switch on the device.
		Check the Charging Cable with the smartphone to make sure it is working correctly, or try another standard USB-C cable.
erating mode won't start and I see the	The Control Unit is not powered on.	Power on the Control Unit by pressing the trigger.
Ing screen:	The Control Unit is not successfully connected to the OKM App.	Tap on the red cross to retry establishing a connection. If this doesn't work, restart the App and the Control Unit: Hold the trigger for 3 seconds until the Control Unit turns off. Then press the trigger again to power it on again.
erating mode won't start and I see the ng screen: Main Menu & Q I I EN I I I I I I I I I I I I I I I I I I I	The required probe is not connected.	Plug in the Long-Range Probe (L). See 3.2 Attach Probe on page 11.

The operating mode won't start and I see the	The required probe is not connected.	Plug in the Long-Range Probe (L). See 3.2 Attach Probe on page 11.	The ope
following screen:			followin
The operating mode won't start and I see the following screen:	The required probe is not connected.	Plug in the Ground Scan Probe (G). See 3.2 Attach Probe on page 11.	The Las
The operating mode won't start and I see the following screen:	The required probe is not connected.	Plug in the Ground Scan Probe (G). See 3.2 Attach Probe on page 11.	Stream
The operating mode won't start and I see the following screen:	The required probe is not connected.	Plug in the Thermo Probe (T). See 3.2 Attach Probe on page 11.	calibrat



Compass on page 18. Retry calibration: Hold the detector horizontally during the complete calibration process. There are too many ferromagnetic interferences in the area (e.g. power lines). Retry calibration in a place where there are less magnetic interferences. Make sure there are no power lines above or a electric fences near you. The Compass may not work indoors. 3D Ground Scan does not start. Instead, I see the compass may not used for possible and or or dense start starts instead in the area (e.g. power lines). Make sure there are no interfering barriers like a rod or dense trees above the smart prine to allow GPS tracking. GPS in the Settings menu to disable GPS. Image:	ne Compass Calibration failed.	You moved too fast or too slowly.	Retry calibration: Press the trigger and start rotating as slowly as described in 4.7 Calibrate	NOTES
The probe was pivoted while calibration: Retry calibration: Hold the detector horizontally during the complete calibration process. Press the trigger and start rotating. There are too many ferromagnetic interferences: Retry calibration: in a place where there are less magnetic interferences. Make sure there are no power lines above or a electric fences near you. The Compass may not work indoors. 3D Ground Scan does not start. Instead, I see the following screen: GPS is trying to locate your position. There are too many ferromagnetic interferences. Make sure there are no interfering barriers like a roof or dense trees above the smart- phone to allow GPS tracking. GPS is tracking does not work indoors. You should switch off GPS in the Settings menu to disable GPS. You should switch off GPS in the Settings menu to disable GPS.			Compass on page 18.	
There are too many ferromagnetic interferences Retry calibration in a place where there are less magnetic interferences. Make sure there are less magnetic interferences. Make sure there are no power lines above or a electric fences near you. The Compass may not work indoors. 3D Ground Scan does not start. Instead, I see the service subscure there are no interfering barriers like a roof or dense trees above the smart-phone to allow GPS tracking. GPS tracking does not work indoors. Make sure there are no interfering barriers like a roof or dense trees above the smart-phone to allow GPS tracking does not work indoors. Image:		The probe was pivoted while calibrating.	Retry calibration: Hold the detector horizontally during the complete calibration process. Press the trigger and start rotating.	
3D Ground Scan does not start. Instead, I see the GPS is trying to locate your position. following screen: Image: Construction of the set ings menu to disable GPS. You should switch off GPS in the Settings menu to disable GPS. Image: Construction of the settings menu to disable GPS.		There are too many ferromagnetic interferences in the area (e.g. power lines).	Retry calibration in a place where there are less magnetic interferences. Make sure there are no power lines above or a electric fences near you. The Compass may not work indoors.	
Image: Optimized and the setting set of the set of) Ground Scan does not start. Instead, I see the ollowing screen:	e GPS is trying to locate your position.	Make sure there are no interfering barriers like a roof or dense trees above the smart- phone to allow GPS tracking. GPS tracking does not work indoors.	
			You should switch off GPS in the Settings menu to disable GPS.	
	GPS			
Thermo Scan does not start. Instead, I see the following screen: GPS is trying to locate your position. Make sure there are no interfering barriers like a roof or dense trees above the smart- phone to allow GPS tracking. GPS tracking does not work indoors.	nermo Scan does not start. Instead, I see the ollowing screen:	GPS is trying to locate your position.	Make sure there are no interfering barriers like a roof or dense trees above the smart- phone to allow GPS tracking. GPS tracking does not work indoors.	
CPS Vou should switch off GPS in the Settings menu to disable GPS.			You should switch off GPS in the Settings menu to disable GPS.	
GPS	GPS			
	~			
My scan data look unusual and/or seem to be The sensor range has been exceeded. Make sure you hold and move the probe in the correct orientation according to the recommendations of the selected operating mode.	y scan data look unusual and/or seem to be correct.	The sensor range has been exceeded.	Make sure you hold and move the probe in the correct orientation according to the recommendations of the selected operating mode.	
The internal batteries are too low. Charge the detector batteries – see 4.1 Charge Internal Batteries on page 13.		The internal batteries are too low.	Charge the detector batteries – see 4.1 Charge Internal Batteries on page 13.	
The detector is too close to other electric Keep at least 160 ft (50 m) distance to magnetic fields, electric motors, speakers, phones, or magnetic devices, or in atmospheric keys, and jewelry. Avoid using the detector during thunderstorms – see 5.1 Pacemakers on conditions such as lightning prevail. page 23.		The detector is too close to other electric or magnetic devices, or in atmospheric conditions such as lightning prevail.	Keep at least 160ft (50m) distance to magnetic fields, electric motors, speakers, phones, keys, and jewelry. Avoid using the detector during thunderstorms – see <mark>5.1 Pacemakers on</mark> page 23.	

8 DISPOSAL









DISPOSAL



Dispose the device or its components in accordance with local regulations.

RECYCLE USED PRODUCTS! Reusing extends product life spans and contributes to the source reduction of raw materials.

RECYCLE PROPERLY! Do not put devices with integrated batteries in the trash or municipal recycling bins.

CHOKING AND ASPHYXIATION HAZARD! A Plastic Bag is Not a Toy! Keep Away from Children!

9 TECHNICAL SPECIFICATIONS

Manufacturer Туре Model

The technical specifications are medial values. Slight variations are possible during operation.

Weight Battery Input (max) Charge Time Sample Rate Air Humidity Compass Waterproof

9.1.1 Laser Laser Output Laser Class

Technology Frequency Range Maximum Transfer Rate Receiving Sensitivity Maximum Range

TECHNICAL SPECIFICATIONS

OKM GmbH Treasure Detector DR-A01

9.1 CONTROL UNIT

Dimensions (L x W x H)

Operating Time Processor / Main CPU Measurement Resolution Operating Temperature Storage Temperature

Laser Beam Distance Emitted Wavelength Operating Temperature

9.1.2 Data Transfer

11.8 x 5.3 x 8.7" | 300 x 135 x 220 mm 22.6 oz | 640 g Li-ion, non-removable 5VDC,2A,10W 3.5h@50-86°F|10-30°C approx.24 h Cortex M3, 32 MHz 1024 values/second 16 bit 23-122°F|-5-50°C -4-158°F|-20-70°C 5%-75% Yes No

max. 490 ft | 150 m max. 2.5 mW 650 nm 3R (EN 60 825-1) 23-122°F|-5-50°C

Bluetooth 5.2 2.4-2.4835GHz 1Mbps -85dBm approx. 25ft | 8 m (Line of Sight)

9.2 PROBES

9.2.1 Long-Range Probe (L)

Length Diameter Weight Sensor Technology

9.2.2 Thermo Probe (T)

Length Diameter Weight Technology Optimal Surface Temperature Temperature Range Resolution Accuracy Aperture Angle

9.2.3 Ground Scan Probe (G)

Length Diameter Weight Sensor Technology 7.7" | 195 mm 1.6" | 40 mm 3.7 oz | 105 g SCMI-15-D/LD-4E

9.1" | 230 mm 1.6" | 40 mm 3.9 oz | 110 g Contactless infrared 50-77°F|10-25°C 23-122°F|-5-50°C 32.2°F|0.1°C ±33.8°F|±1°C 5° (± 2.5°)

18.7" | 475 mm 1.6" | 40 mm 5.8 oz | 165 g SCMI-15-D

10 REPS & WARRANTIES

To the extent applicable, the manufacturer OKM warrants that the Goods shall be free from material defects in workmanship and materials, so long as such Goods are used in conformance with their intended use and in strict compliance with the instructions of OKM, for a period of

- TWO [2] YEARS for new devices and demonstration devices.
- TWELVE (12) MONTHS for used devices,
- SIX (6) MONTHS for internal batteries, Power Packs, chargers, and travel adapters,

the period shall start with the invoice date of said Goods to the Customer

10.1 ACKNOWLEDGEMENTS, REPRESENTATIONS, AND WARRANTIES

THE WARRANTY SET FORTH IN THIS SECTION IS MADE IN LIEU OF ALL OTHER WARRAN-TIES (WHETHER EXPRESS OR IMPLIED), RIGHTS OR CONDITIONS, AND CUSTOMER AC-KNOWLEDGES THAT EXCEPT FOR SUCH LIMITED WARRANTY, THE PRODUCTS ARE PRO-VIDED "AS IS." COMPANY SPECIFICALLY DISCLAIMS, WITHOUT LIMITATION, ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, OF ANY KIND, INCLUDING, WITHOUT LIMITATION. THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, NON-INFRINGEMENT, AND THOSE WARRANTIES ARISING FROM A COURSE OF PERFORMANCE, A COURSE OF DEALING OR TRADE USAGE.

The Customer represents and warrants, by entering into the Agreement and accepting the Services and/or Goods from OKM, that the Customer's execution, delivery, and performance of the Agreement has been duly authorized by all appropriate corporate action on the part of Customer, and the Agreement constitutes a valid and binding obligation of Customer enforceable against it in accordance with its terms.

The Customer agrees that he/she inspects the delivered Goods immediately upon receipt. If the Customer finds defects and/or experience technical problems, he/she agrees to contect the local dealer first (listed at www.okmdetectors.com/dealers). If the Customer cannot resolve the problem with the local dealer, the Customer will contact the manufacturer OKM:

OKM GmbH	
Julius-Zinkeiser	ı-St
04600 Altenburg	J
Germanv	

Phone:

Web: www.okmdetectors.com Facebook: okmmetaldetectors Str. 7 Email: info@okmdetectors.com Instagram: okmdetectors +4934474993000 YouTube:

okmdetectors WhatsApp/SMS: +491624192147 Defects must be claimed immediately in writing (at the latest 7 days after receipt) by using the OKM RMA Form provided at www.okmdetectors.com/rma and including the original proof of

purchase (e.g. invoice). Goods which are subject to complaints must be provided to the local dealer and/or to the manu-

facturer OKM for inspection. The Customer agrees to not send the Goods back without prior

consultation. The Customer must contact the local dealer and/or the manufacturer before returning the Goods.

Filing a warranty claim does not automatically imply a refund. If a functional or material defect occurs and is claimed within the warranty period, the manufacturer OKM has the right to rectify the defect and provides the following warranty services at its own expense:

- rectification and repair of the defective device or component(s) or
- replacement of the defective component(s) or

In cases in which the error cannot be eliminated, attempts at elimination are unreasonable or the elimination of the error has failed completely, the Customer may choose to

- request a reduction of the purchase price or
- withdraw from the contract and get the purchase price refunded.

For defects asserted within the warranty period but not eliminated, warranty is given until the defect is eliminated.

In the case of delivery of a new device, a new warranty period starts.

In the case of a warranty repair, the original warranty period and starting date applies to the Goods. A new warranty period applies only to the part replaced where such a replacement occurred.

10.3 LIMITATION OF LIABILITY

- - poor performance due to improper use,
 - signs of wear and tear,

 - improper use and/or poor maintenance,
 - defects created due to hitting and/or dropping the device,
 - unauthorized alterations, repairs and/or modifications,

WARRANTIES



Shipping costs (including fees, insurance etc.) to the local dealer and/or manufacturer are not covered by the dealer or manufacturer and are the responsibility of the customer.

10.2 INDEMNIFICATION

replacement with a new device.

After rectification or replacement, the return of the Goods from the manufacturer OKM to the Customer or assigned local dealer is covered by OKM and includes shipping insurance.

The Customer acknowledges that excluded from warranty are:

- theft and/or loss of the device.
- as well as defects and damages caused by:

- abuse, misuse, deliberate destruction, accident,
- unusual physical and/or electric stress,
- exposure to moisture, water, extreme temperatures and/or fire,
- improper handling, transportation and/or storage,
- opening of any technical component and/or accessory.

If the device is defective but it is not a warranty case, refer to 6.4 Maintenance and Repair by OKM on page 47. If there is no warranty case, the costs for returning the device to the Customer are not covered are not covered by the dealer or manufacturer.

OKM SHALL NOT BE LIABLE FOR AND DISCLAIMS ANY AND ALL LOST PROFITS AND ANY INDIRECT, INCIDENTAL, CONSEQUENTIAL, SPECIAL OR EXEMPLARY DAMAGES, WHETH-ER ARISING OUT OF THE SERVICES, THE GOODS, OR THE PERFORMANCE BY OKM UNDER THE AGREEMENT. IN THE EVENT OF TERMINATION FOR ANY REASON, OKM SHALL NOT BE LIABLE TO CUSTOMER FOR COMPENSATION, INDEMNIFICATION, REIMBURSEMENT OR DAMAGES ON ACCOUNT OF ANY LOSS OF PROSPECTIVE PROFITS OR ANTICIPATED SALES OR ON ACCOUNT OF EXPENDITURES. INVESTMENTS, LEASES OR COMMITMENTS MADE IN CONNECTION WITH THE AGREEMENT OR THE ANTICIPATION OF EXTENDED PER-FORMANCE THEREUNDER. NOTWITHSTANDING THE FOREGOING, CUSTOMER'S EXCLU-SIVE REMEDY AGAINST OKM, AND OKM'S SOLE OBLIGATION, FOR ANY AND ALL CLAIMS, WHETHER FOR BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE), OR OTHERWISE, SHALL BE LIMITED TO EITHER REPAIR OR REPLACEMENT OF THE NONCON-FORMING GOODS OR REFUNDING THE AMOUNTS PAID BY CUSTOMER TO OKM DIRECTLY ATTRIBUTABLE TO NON-CONFORMING GOODS OR SERVICES. IN NO EVENT SHALL OKM HAVE ANY LIABILITY FOR DELAYS IN SHIPMENTS, SPECIAL, INCIDENTAL OR CONSEQUEN-TIAL DAMAGES, REGARDLESS OF WHETHER SUCH CLAIM IS BROUGHT IN TORT, BREACH OF CONTRACT, BREACH OF WARRANTY OR OTHER THEORY OF LAW OR EQUITY.

10.4 SERVICE & SUPPORT

Support during and after the warranty period is provided in all countries where the product is officially distributed by OKM. Refer to 6.4 Maintenance and Repair by OKM on page 47 and contact your local dealer and/or the manufacturer OKM for further information.

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