

LumiTest

Electronic light probe and contrast detector
for blind people



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1: Introduction

LumiTest is a sophisticated light probe and contrast detector for blind people. The artificial eye of the LumiTest senses light intensity and contrast and announces the results using several acoustic signals to show if it is a bright or dark, a natural or an artificial source of light. LumiTest also includes a special tip that can be attached to the top of the device. With the help of this tip you can control small diodes to see if the lamp of any electronic device in your household is switched on or not.



Consult instructions before use! Do not operate LumiTest without reading the instruction manual. Get acquainted with the device and all the accessories. Keep the instruction for reference reading and pass it on with the device.

2: Description of the device

Take the device into your hands and you will feel its slim and oblong case. Put the LumiTest in front of you, so that the inclined end of the device faces you. At the left end of this inclined part you will find a hole, housing the measuring head of the LumiTest, it's the "artificial eye".

Run your fingers over the surface and you will feel three slots. This is the loudspeaker announcing the different acoustic signals. Above this loudspeaker, still on the unit's surface, you will find three keys. Above those keys, you will find a clip for attaching the LumiTest to your belt. This part of the unit is also the battery compartment. You can open the battery compartment pulling the part with the clip to the right, while firmly holding the unit's left part. The LumiTest comes with 2 x 1,5 V AAA Micro batteries.

In the battery compartment you will also find a small tip, which can be placed in the hole of the artificial eye, enabling you to detect smaller sources of light, like the operating lights, as light-emitting diodes on electronic devices.

3: How to Use

Open the battery compartment and insert two 1.5 V AAA Mignon batteries. You will find two coils in the battery compartment. The left coil is marked with a ring. Put one battery in, with it's smooth side negative facing the coil. With the second battery, proceed the opposite way around.

4: Description of the keys

Put the LumiTest in front of you, so that the inclined end with the artificial eye faces you. Run your fingers over the surface and you will feel the three housing the loudspeaker. Above the loudspeaker you will find three keys, having the following functions:

- 1st key: contrast detector
- 2nd key: light detector A
- 3rd key: light detector B

5: Detecting contrasts

5.1: Measuring brightness

press the artificial eye of the LumiTest on the surface you want to measure. Press the first key (the one near the measuring head). According to the acoustic signal you will then be able to tell whether the surface is bright or dark.

- high tone = bright surface
- low tone = dark surface

5.2: Measuring contrasts

when measuring contrasts, press the first key and keep it pressed while moving the measuring head over the surface of the object. According to the acoustic signal you will get the information you need.

- uniform tone = uniformly colored surface (high tone for bright, low tone for dark colors)
- varying tone = patterned or colorful surface (printed sheet of paper will be detected as patterned)

5.3: Measuring light with high sensitivity

This function is used, when you expect low brightness. Press the second key (the middle one), keep it pressed and sway the LumiTest around the room. The acoustic signals will then inform you about the intensity and the proximity of the source of light.

- high tone = source of light is intense or very near
- low tone = source of light is not intense or far away
- click sound after 5 seconds = no light at all

5.4: Measuring light with low sensitivity

basically it is carried out as the measurement with high sensitivity, using the third key (the upper one) instead of the second one. Press the third key, keep it pressed and once again sway the LumiTest around the room. This function enables you to detect differences in dark areas or on dark surfaces.

- low tone = dark surface
- click sound = dark surface or no light

5.5: Measuring with the additional tip

to detect small sources of light, like the operating lights on electronic devices or light-emitting diodes. As mentioned above, you will find the additional tip in the battery compartment. Put this tip into the hole of the measuring head and fix it with a quarter revolution to the left. Press the tip on the operating light of an electronic device and keep the second key pressed.

- ongoing, high tone = operating light switched on
- short, low tone = operating light switched off

After the measurement, remove the tip with a quarter revolutions to the right and store it in the battery compartment.

6: Safety Instructions

Do not expose the device to extreme humidity, heat, cold, dust or dirt.

When exposed to splash water, wipe the device off. If water enters the device, remove the batteries and make sure the device is dry.

When not using the device for a longer period, remove the batteries, so they can not damage the device by leaking.

Make sure the batteries are inserted in the correct way.

7: Cleaning the Device

To clean the device, use a lightly moistened cloth only!



Caution: No liquid should enter the device! Avoid strong acid or scrubbing cleansers. Do not scrub the surface with rough sponges, as they could damage the case of the device.

8: Technical Details

Signal frequency:	0 to 2.5 kHz
Dimensions:	165 x 27 x 19 mm
Weight:	60 g including batteries
Batteries:	2 x 1.5 V AAA Micro batteries, LR03
Included in Delivery:	LumiTest - audio Light Probe (incl. batteries), printed manual

9: Guarantee and Service

From the date of purchase, we issue to the original purchaser of this product a guarantee of:

- twenty-four (24) months on the device itself,
- twelve (12) months on the accessories (e.g. power supply, earphones etc.),
- six (6) months on wear parts (e.g. battery, case etc.)

Please note that we do not issue any guarantee on batteries!

During the guarantee periods mentioned above, the product will be either repaired or replaced free of charge. In no event shall CareTec be liable for indirect, special or consequential damages. The exposure of the device to liquids, strong electromagnetic fields, heat as well as dropping the device or opening the case causes immediate loss of guarantee. In case of problems please contact CareTec or your local distributor before returning the device without any apparent reason. We will then inform you about the necessary procedures. The device may only be opened by authorized technicians!

CareTec reserves the right to make any changes or improvements to its products without further notice.

10: Legal Notice on the Disposal of Electronic Devices

10.1: Disposal of used Electronic Devices



This product must be disposed of separately from household waste at specially designated collection and recycling points. For further information please contact your local authorities.

10.2: Recycling Batteries



Batteries must not be disposed of in household waste. As a consumer you are legally obligated to bring your old batteries to public collecting points (in your community or any shop that provides these batteries).





Pb-Cd-Hg These signs can be found on contaminant-laden batteries.

Pb = containing lead


Cd = containing cadmium

Hg = containing mercury

11: Symbols used

	Caution
	Note
	Dispose of separately from household waste
	Manufacturer

12: Manufacturer

	<p>CareTec GmbH, Stubenbastei 1, A-1010 Vienna, Austria is the manufacturer of this product. Phone (+43 1) 513 80 81 0 Fax (+43 1) 513 80 81 9 E-mail: office@caretec.at Web: www.caretec.at</p>
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