



Ultrasound Solutions

SDT International sa-nv
Bd de l'Humanité 415 • B-1190 Brussels (Belgium)
Tel: +32(0)2 332 32 25
email: info@sdtultrasound.com

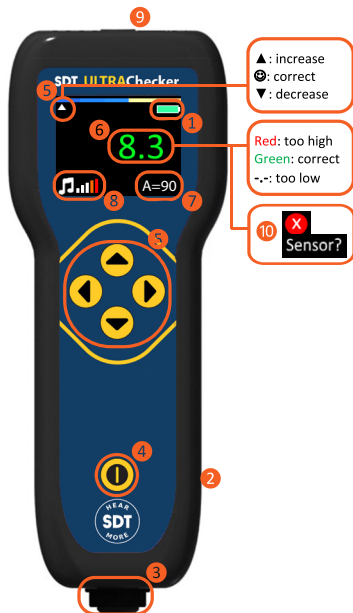
SDT North America
1532 Ontario Street, Cobourg, ON
Phone: 1-800-667-5325 | 1-905-377-1313
email: hearmore@sdtultrasound.com

www.sdtultrasound.com

ULTRAChecker USER MANUAL



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▲: increase
●: correct
▼: decrease

Red: too high
Green: correct
-.-: too low

✗ Sensor?

Specifications :

General		Mechanical	
Function	Ultrasound measurement device	Housing material	ABS
Operable with	SDT FlexID2, SDT LUBESense, SDT RS2 Needle, SDT AIRSense, SDT ULTRASense	Dimensions housing	158x59x38.5 mm 6.22"x2.32"x1.51"
Measurement interface	1 channel via a 7 pole LEMO connector	Weight	164g 5.78oz
Display	160x128 pixels Color OLED	Power	
Keyboard	5 function keys	Battery	2 AA batteries
Measuring range	-6 to 99.9 dBμV (ref 0 dB = 1 μV)	Autonomy	7 hours
Resolution	0.1 digits	Audio	
Measurement bandwidth	35 to 42 kHz	Amplification	5 adjustable positions in steps of 6 dB
Signal amplification	+30 to +102 dB by step of 6 dB	Operable with	SDT provided head set only
Environmental		Maximum output	+83dB SPL with SDT headset
Operating temperature range	-10 to +50 °C 14 to 122°F non-condensing	Headset	25dB NRR Peltor HQ headset
IP rating	IP42		

User manual

Powering your equipment:

Open up the battery compartment using the supplied screwdriver. Correctly insert two AA alkaline or rechargeable batteries. The remaining battery level is displayed in the right hand top corner ❶.

A full green battery in the right hand top corner means that the battery is fully charged. The equipment's autonomy when fully charged will be around 7 hours.

The device can be powered through its USB port ❷ with an external battery pack. **Important:** The ULTRAChecker turns off automatically when the battery power is insufficient to ensure proper operation, or after 10 minutes of inactivity.

Connecting the sensor cable :

Connect the cable of the sensor to the device by lining up the red dot on the plug with the red mark on the connector ❸ and then inserting the plug into the connector.

To unplug them, move-up the knurled barrel of the plug without any rotating movement.

Proceed in the same way to connect and unplug the cable on the side of the flexible extension. The '✗ Sensor ?' messages ❿ indicate that no or an incompatible sensor is connected. The "x"- "sensor" indication will only disappear when the ULTRAChecker is correctly wired up and connected to the correct sensor.

Using the ULTRAChecker:

When pressing the on/off switch ❹, the equipment will switch on immediately.

To switch off, the on/off button needs to be pressed for approx.. 2 seconds.

To take a correct measurement, the amplification needs to be adjusted for every reading. This is done by using the up and down arrows ❶ and following the triangular amplification guidance icons ❺ in the top left hand corner of the display.

The current amplification setting is displayed here ❷.

Once the correct amplification level is reached, the reading (measurement) will be displayed in green and a "smiley" ☺ will appear in the place where previously the triangular amplification guidance icon was shown. When the reading (measurement) is displayed in red, the amplification is too high and will need to be reduced by pressing the "arrow down" button. When "-.-" is displayed on the screen, the amplification is too low and will require increasing by pressing the "arrow up" button. In both cases, i.e. when the amplification is too low or too high, the amplification should be adjusted until the reading(measurement) is displayed in green and the smiley ☺ appears in the left hand top corner.

Using the headphones:

To enhance the hearing experience, the audio volume of the headset can be adjusted by pressing the left and right arrows ❸ until the sound level is comfortable.

Avoid setting the sound too low as otherwise some signals may not be heard and possible leaky spots overlooked. Connect the headphones here ❹.

The current volume setting is displayed ❸ only when a headset is connected.