

SPIRO TIGER[®]



Introduction

The SpiroTiger® Sport is an easy to operate exercise product to train your respiratory muscles and to improve your breathing. The SpiroTiger® Sport will increase your endurance and stamina and therefore may help improve your performance.

The SpiroTiger® consists of two components, a Handheld Device and the Base Station.

The **Base Station** is a computerized unit that stores the information that helps you to regulate your respiration and to control breathing. It has a lighted panel and acoustic sounds, which help you to keep up the pace you choose and displays digital information that leads you through the workout. It records the data from your training session and stores it for your future reference.

The **Handheld Device** with its built in SpiroTiger's valve technology and respirator bag offers extensive protection against hyperventilation, hypoventilation and dizziness, if you use the SpiroTiger® correctly.

Take time to become thoroughly familiar with the operation of the SpiroTiger® before you start your first session.




The SpiroTiger® is intended to be used only as an exercise device by healthy people. If you have any medical condition, that might be affected by controlled breathing exercises, consult your health care professional before you use SpiroTiger®. It is a good idea to consult your health care professional before you begin any kind of exercise conditioning program. Now take time to learn how SpiroTiger® works.

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Glossary of Symbols


This operating manual uses the following icons to indicate especially important comments:


	DANGER: Immediate and imminent DANGER for life and limb. Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
	WARNING: Signals potential harm to equipment or user if instructions are not followed.
	CAUTION: Indicates potential harm to equipment if instructions are not followed.




NOTE:
Information and recommendations to make optimal use of the SpiroTiger®.


Operating buttons of the Base Station


 Enter button, confirmation

 Up button, increasing the value, switching

 Down button, decreasing the value, switching

Direction of the indicator lights

 From right to left side (inhalation)

 From left to right side (exhalation)

Symbols used on the SpiroTiger®



Attention, consult accompanying documents.



Type BF Equipment

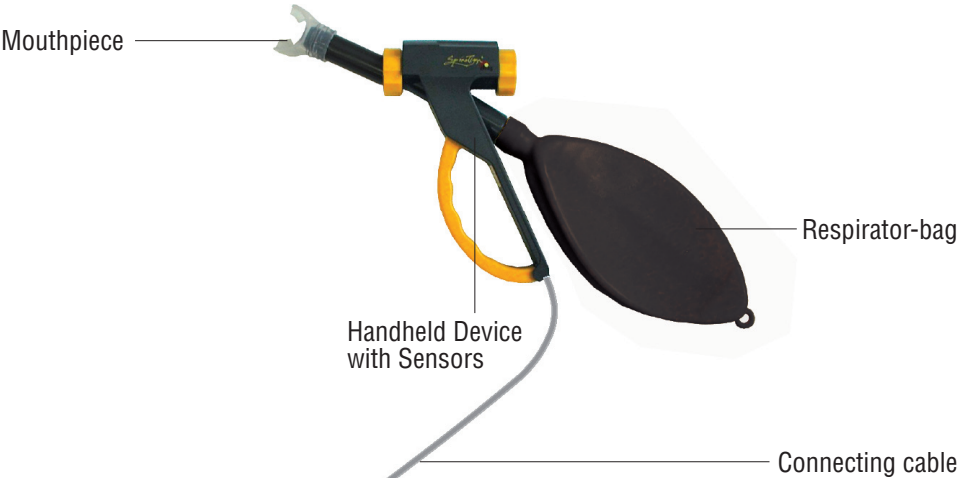


Direct Current

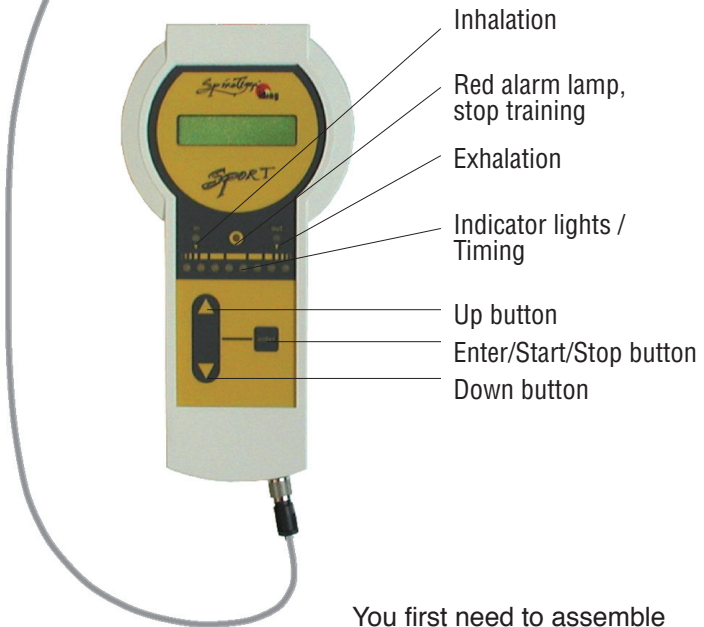


Battery

Respiratory Components



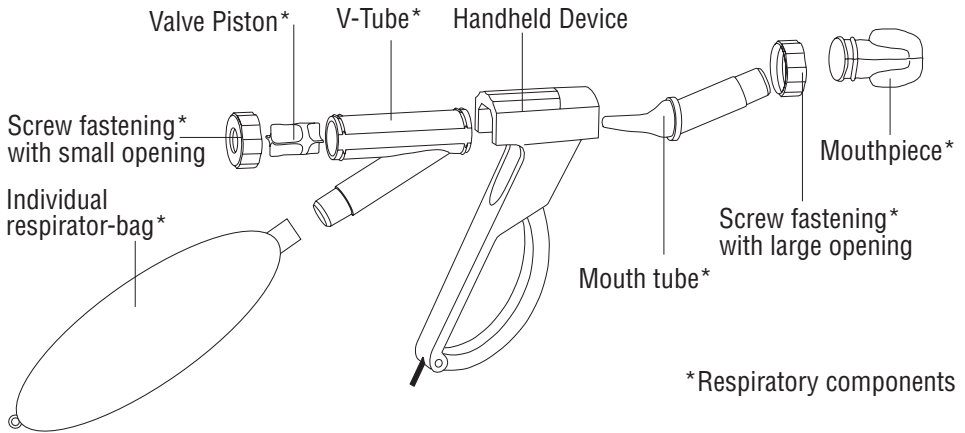
Base Station



2 Batteries are part of the delivery

You first need to assemble the respiratory components, following these directions:

Installation of the Handheld Device



Clean the SpiroTiger® before the first use in accordance with chapter 'maintenance'. Pages 18-22.

Mounting the Respiratory components

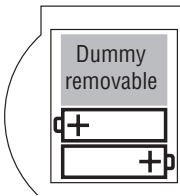
1. Place all parts on a table as shown above.
2. Insert the valve piston into the V-tube as shown above, and secure the opening with the screw fastening (small opening).
3. Insert the V-tube into the Handheld Device.
4. Insert the mouth tube into the V-tube and fix it with the second screw fastening (large opening).
5. Slide the respirator-bag over the open end of the V-tube and put the mouthpiece over the mouth tube.
6. Use the connection cable to connect the completed Handheld Device to the Base Station.

The Handheld Device is activated by connecting it to the Base station. Make sure that the plug is properly installed.

The Handheld Device is now ready for use.

Next, enable the Base Station and program it with the information needed to guide your workout.

Setup the Base Station

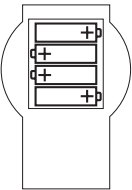


1. Insert the batteries as shown.

- The battery compartment of the SpiroTiger® holds up to 4 batteries. (The SpiroTiger® may also run on 2 batteries, which reduces their life span accordingly.)

The following situations require the installation of new batteries:

2 Batteries



4 Batteries

please change
battery

- before you first use the SpiroTiger®
- if 'please change battery' is displayed
- when the battery power is too low to run the SpiroTiger®.



- Open the cover of the battery compartment on the rear side to insert the batteries as shown, making sure to align the positive and the negative poles correctly to avoid damage to the unit.
- To extend battery life, remove the batteries if SpiroTiger® is not likely to be used for several days or weeks.



- Batteries do contain corrosive liquid. If a battery leaks: Do not expose skin, eyes, or mouth to the liquid. If you do, flush the affected body parts with water for at least 15 minutes. Consult a doctor. Do not inhale vapor. Immediately remove any liquid from the unit with a damp cloth and dispose of the cloth. Idiaag accepts no responsibility for injuries to customers, or damage to the device, caused by leaking or defective batteries.
- Do not recharge non-rechargeable batteries.
- Take care of our environment; properly dispose of used batteries!


2. Perform a function check.



at least
2 seconds



Switching on

The Base Station is switched on by pressing the Enter button  until the unit switches on and all segments and lights are activated.

Press Enter to continue.

select person:
1

Select person number will be displayed.

The Handheld Device is activated by connecting it to the Base Station. Make sure that the plug is properly installed.



3 seconds

Switching off

The Base Station is switched off by pressing the Enter button for at least 3 seconds.


The Base Station will turn itself off, if it is not used for more than one minute.

Function check

Perform a function check before each training and after inserting the batteries.

- Make sure that the valve piston moves frictionless.



- Press the Enter button  until the unit switches on and all segments and lights are activated.

Entering your personal Information into the Base Station

The Base Station can store user specific data for 3 different persons.

Prior to your first training session you must enter the volume of your respirator-bag and your respiration rate. The SpiroTiger® needs these user specific data to provide you with specific training instructions and to avoid any risk to you.



An incorrect respirator-bag volume and/or respiration rate can lead to hyperventilation, hypoventilation, dizziness or disturbance of equilibrium.

How to determine the Respiration-rate

Start with a respiration-rate of 20 per minute and increase it slowly until you feel the training strenuous. Typical frequencies are between 20 and 40 breath per minute. Train as hard as possible!

The respiration-rate can be programmed (see below) or increased during the training with the UP button (see page 11).

How to program Bag volume and Respiration rate

select menu
set parameters

Select: Switching on -> Person number -> Parameter of training
-> ENTER

bag volume
2.5 litre

Use the UP and DOWN buttons to enter the volume of the bag and confirm the selected value with ENTER.

respiration rate
20/minute

Use the UP and DOWN buttons to select the established respiration rate and confirm the selected value with ENTER.

resp. volume
65 litre / min.

The Base Station now determines your personal respiratory rate-volume per minute.

Press ENTER to continue.

Entering your personal Information into the Base Station

Selection Menu

select person
1



Switch on the Base Station and use the UP an DOWN button to select your personal number (1,2 or 3). Confirm the number by pressing the Enter button. All further displays and entries will be related to this personal number.

select menu

The Enter button opens the selection menu.
Use the UP and DOWN button to scroll through the selection menu.

Training with SpiroTiger®



SpiroTiger® does not supply any Latex containing material. However, if you use a mouthpiece or a bag of other suppliers, make sure you get latex free material!



Start Training



Prior to your first training session you must enter the volume of your respirator-bag and your respiration rate. The SpiroTiger® needs these user specific data to provide you with specific training instructions and to avoid risky situations.

The Base Station must be connected to the Handheld Device.

select person
1

Switch on the Base Station and select your personal number 1, 2 or 3 with  and . Confirm the selection by pressing the ENTER button.

select menu
start training

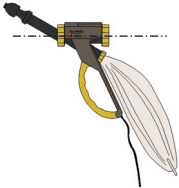
Press ENTER .

duration
20 min.

You must set the duration of your training session by entering the number of minutes you want to train. (UP and DOWN buttons)
Range: 1-99 minutes

running
time: 00:03

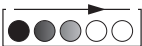
Start training with ENTER.



The time of training is displayed (minutes: seconds)

Remember: Keep the Handheld Device in a horizontal position while training.

The SpiroTiger® signals each change from inhalation to exhalation and vice versa with a short beep while the running lights change direction.



Exhale!

Take the mouthpiece into your mouth. Inhale deeply and start exhaling while the indicator lights runs from left to right.



Inhale!

Start inhaling at the beep, the sprint-light now runs from right to left.



You are inhaling



You are exhaling

The two green lights are helping you to synchronize your breathing: The lights are indicating whether you are at the end of an inhalation or exhalation cycle.

Changing the Respiration rate during Training

During training the respiration rate can be changed with UP and DOWN. The new rate stays valid until the unit switches off. Next time you switch on the SpiroTiger® the originally selected values will be in effect again.

respiration rate
30/minute

Displays and Messages during training

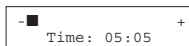
The bars on the display indicate the actual respiration-depth during your training session:



Optimal breathing for the set values and the selected respirator-bag.

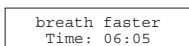


Breathing is too deep or respirator-bag too small.

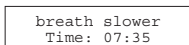


Breathing is too shallow or respirator-bag too big.

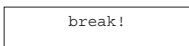
If the given pace is not maintained, the bars disappear and one of the following instructions appears:



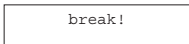
Breathe faster.



Breathe slower.



If the valve piston does not move for more than 10-15 seconds, the display will indicate 'break'. This may be caused by an interruption of training, insufficient breathing (too shallow) or a choice of the wrong respirator-bag (too big). The SpiroTiger® will switch off, if the training is not continued within the next minute.



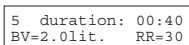
Mind! A 'break' does not mean that you have to take a break!



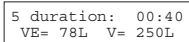
If the training-instructions are continually ignored, the SpiroTiger® will stop the training. See page 13.

End of training / Storage of data

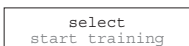
After you have finished or interrupted your training (ENTER) or after a faulty-training, the following information is displayed:



After one second



- Number of training
- Duration of training (min: sec)
- Bag volume (BV, litre)
- Respiration rate (RR, per minute)
- Respiratory rate-volume per minute (litre per min.)
- Entire breathing-volume during training (V)



The training-data is stored by pressing ENTER and the selection menu appears.



The SpiroTiger® Logbook can store up to 20 training sessions of each selected person and the data can be recalled at the Base Station (see page 14).

Error Messages



Red alarm
lamp is on

Danger of injury!

Training despite red alarm lamp may lead to dizziness and falls with injuries.

Interrupt training!

If training instructions are continually ignored, the SpiroTiger® training is stopped and the red alarm lamp is switched on.

If training-instructions are continually ignored, the SpiroTiger® stops the training.

!! error !!
press enter

The training has stopped.

After pressing the ENTER button, the display shows the reason for the training break-off.

Possible reasons for the interruption:

no
valve detection

No respiration noticeable.

Valve piston not installed or jammed.

Respiratory components not installed.

valve!
malfunction!

respi. components
not connected

Connection-cable not connected.

too slow!

Your breathing was slower / faster than the set respiration-rate.

too fast!

set a higher
respiration-rate

Your breathing was too deep. Use the UP-button to increase the respiration-rate or choose a bigger respirator-bag.

set a lower
respiration-rate

Your breathing was too shallow. Use the DOWN-button to reduce the respiration-rate or choose a smaller respirator-bag.



5 duration: 00:40
BV=2.0lit. RR=30

By pressing ENTER you can switch back to the display readings described in chapter 'End of training/ Storage of data'. See page 12.



Check the bag-size and your personal training data if the SpiroTiger® interrupts your training more than once or twice (page 10).

OUT OF ORDER!

Cannot read or write date. Please return the device to your local dealer for repair work or directly to Iddiag.

Logbook

After a training session the data will be transferred to the logbook. The logbook can store up to 20 training sessions.

You must switch off the device before calling in the training data of a different person. After restarting the SpiroTiger® you may then choose the personal data (person 1-3) desired.

select menu
logbook



From the selection menu you can reach the logbook by using the UP and DOWN buttons.

Open the logbook with ENTER and the following data shows you the beginning of the last entry:

5 duration: 00:40
BV=2.0lit. RR=30

- Number of training
- Duration of training (min: sec)
- Bag volume (BV, litre)
- Respiration rate (RR, per minute)

After one second the bottom line of the display is replaced by the following values:

5 duration: 00:40
VE= 78L V= 250L

- Respiratory rate-volume per min. (\dot{V}_E , litre/min.)
- Entire breath-volume during the training. (V, litre)



Using the UP and DOWN buttons you can switch from one training session to the next.

select menu
start training

Press ENTER to get back to the Selection Menu.

Maintenance Menu



The service menu may only be used by authorized service personal. See page 25.

SpiroTiger® Training data sheet

[illegible]

Important training recommendations

- At the beginning the inhale and exhale exercises require patience and some sense of coordination. After a few sessions exercising will seem natural to you. At first pay attention to your pace. Once you are able to follow the indicated pace, try to adapt your respiration volume (indicator bar, p. 12).
- For an easy start with SpiroTiger® we recommend that you start with a lower respiration-rate which should then be gradually increased. Breathing between 20 and 40 times per minute are common respiration-rates.
- If the chosen intensity of your training feels too strenuous, we recommend that you switch to a lower respiration rate.
- If you find the exercise to be easy or only moderately strenuous, choose a slightly higher frequency (2-5) for your next training session.
- We generally recommend exercising for 30 minutes a day. At the beginning you may consider dividing the sessions into 2 sessions of 15 min. each, or 3 sessions of 10 min. each.
- According to your training goal we recommend 2 – 5 training sessions of 30 min. length per week. However, at the beginning you may find it well worth exercising 4 to 5 times a week. To keep up your acquired condition 2 - 3 sessions will be sufficient.
- Do not breath through your nose while exercising! If you tend to do so, consider wearing a nasal clip. Nasal clips may be purchased at your local SpiroTiger® sales office.





REMINDERS

- SpiroTiger® does not supply any Latex containing material. However, if you use a mouthpiece or a bag of other suppliers, make sure you get latex free material!
- Never train without Base Station.
- Keep the Handheld Device in a horizontal position while training.
- Use the SpiroTiger® only if you have read and understood this instruction manual.
- Keep this manual for your reference; it must be available for the user at anytime.
- Review this manual periodically and prior to using the SpiroTiger®.
- Do not breath through your nose while exercising!
- Training with the SpiroTiger® can in rare cases lead to dizziness, breathing difficulties, headaches, nausea, or disturbance of equilibrium. If so, see a doctor immediately. The user accepts full responsibility for his/her training. Idiag is not responsible for consequences originating from training with the SpiroTiger®.
- If any of the above mentioned symptoms or any other health problems occur during or after your workouts, the training must be stopped immediately.
- Training despite red alarm lamp may lead to dizziness and falls with injuries. Interrupt training.
- The RS232 connection of the SpiroTiger® may be connected only with devices which correspond to an IEC-standard.
- Training with the SpiroTiger® may not be used with other physical trainings simultaneously.




DANGER

- Do not use the SpiroTiger® in the presence of flammable (e.g. anaesthetic) mixtures with air, oxygen, or nitrous oxide.

Inspection by the user

A close inspection of the SpiroTiger® is necessary before each training. If you suspect that the SpiroTiger® may be malfunctioning, send it to your local distributor to be examined and/or repaired. Necessary repair work should only be carried out by Idiaq or an authorized customer service center. Faulty components which may affect the safety of the SpiroTiger® equipment must be replaced by genuine spare parts.



- Clean the SpiroTiger® before the first use in accordance with chapter 'maintenance'. Pages 18-22.
- Make an inspection of the SpiroTiger® before each training.
- Do not use a SpiroTiger® which has not passed an inspection.
- Do not use a SpiroTiger® that is damaged or does not function properly.
- Do not use a SpiroTiger® if a battery leaks.
- Do not open the Handheld Device or the Base Station (except the battery compartment).

Interval	Scope	Method
Before each training	• Perform a function control (see page 8).	Inspection
	• Make sure that the piston moves frictionless.	Inspection
	• Make sure that the SpiroTiger® is cleaned and maintained as described in the next section.	Inspection
	• Make sure that respirator-bag and mouthpiece have no leak or cracks.	Inspection
	• Look for damaged components, labels and warning signs.	Inspection
	• Check all cables for damage or breakage.	Inspection

Maintenance, Cleansing, Disinfection

General information regarding Hygiene

The following three sections 'Cleansing, Disinfection and Sterilizing in boiling water' deal with the sanitary handling of the SpiroTiger®.



- Clean the SpiroTiger® as proceeded below before first using it.
- For hygienic reasons, we recommend using a personal mouthpiece and respirator-bag or a personal user kid consisting of all respiratory components.
- Clean the air leading parts, especially the respirator-bag, after each training.
- Make sure that all parts can dry properly.
- Always let the respirator-bag dry with the opening downwards.
- Check the respirator-bag and the mouthpiece for cracks and leaky parts regularly.
- Wearing parts, especially respirator-bag and mouthpiece, must be replaced regularly for hygienic and safety reasons.
- Immediately replace defective parts with original spare parts.

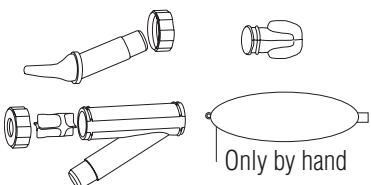
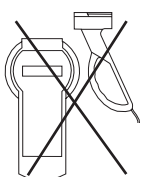
Cleaning of the Handheld Device and the Base Station

All parts of the SpiroTiger® may be cleaned as follows:

Clean only with soap and water. Other detergents (e.g. those containing alcohol with high alcohol content or toluene based solvents) may cause the material to dull or crack. Never use corrosive, solvent or abrasive cleaning agents or polishes.

When cleaning, please observe the following:

- Remove the batteries before cleaning the SpiroTiger®.
- Make sure that no water or other liquids can enter the SpiroTiger® equipment. This precaution prevents electrical short-circuits and corrosion forming on sensitive electronic parts and mechanical components.
- Use a lint free cloth moistened with mild soap and water.
- Clean the SpiroTiger® equipment whenever necessary.
- Clean the respiratory components (see page 6) after each training, especially the respirator-bag.
- Clean the SpiroTiger® Handheld Device after 50 training sessions or at least once a month.
- Clean the Base Station after 50 training sessions or at least once a month.

Cleaning	Rinse by hand or clean in the dish-washer.	Prohibited
		



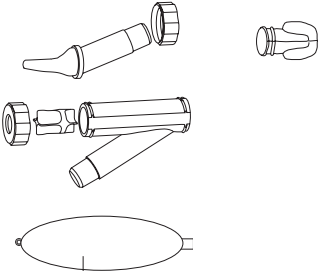
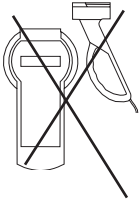
Respiratory components – except for the respirator- bag – may be cleaned in the dishwasher, if used by one person only. If several persons are using the same respiratory components, the parts must be disinfected or even sterilized in boiling water after each training session(see page 21 and 22). The respirator-bag must be flushed by hand and dried with the opening downwards.

Maintenance, Sterilizing in boiling water

Sterilizing the air leading parts in boiling water

All air leading parts (see page 6) shall be sterilized in boiling water according to the following rules.

Note: All parts must be cleaned before sterilizing them in boiling water.

Sterilizing in boiling water	 <p>Rinse the respirator- bag well before putting it in boiling water.</p> <p>While boiling, make sure the parts are fully covered by water and do not contain air. Duration: 8-10 minutes.</p>	Prohibited 
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Idiag recommends that you sterilize in boiling water all air leading parts under the following circumstances:

- before first using the SpiroTiger®
- when user changes
- weekly when in use



Never expose Base Station or Handheld Device to boiling water!
Only air leading parts may be sterilized in boiling water.

Problems and Solutions

Problems	Solutions
SpiroTiger® switches on shortly and immediately shuts off again.	To switch on, press ENTER for at least 2 seconds.
Lights do not switch on completely or seem weak or fading	Exchange the batteries.
Nothing or unknown signals appears on the display.	Check polarity of the batteries. Exchange the batteries.
<div>respi. components not connected</div>	Connect the Handheld Device, check the plug.
The logbook shows no training-data.	No training has been stored under this training-number yet.
SpiroTiger® looked.	Press all 3 buttons for at least 3 seconds and start the SpiroTiger® again. Or: Temporarily remove all batteries and put them back in again.



If problems continue to emerge, please contact your SpiroTiger® retailer or Idiag. See cover for address.

Waste disposal



Protect the environment!
When disposing of this SpiroTiger®, do so in an environmentally friendly way.
Return old products to an appropriate collection point according (EU Directive 2002/96/EC). The SpiroTiger® must not be placed in the normal household waste.

Dimensions	Handheld Device approx. 30 x 5 x 15 cm / approx. 12 x 2 x 6 in (w/o Respirator-bag)
	Base Station: approx. 23 x 4 x 12 cm approx. 9 x 1.6 x 4.7 in
	Serial cable: length approx. 130 cm / 50 in

Weight	Handheld Device:	ca. 350 g / 12.4 oz
	Base Station:	ca. 350 g / 12.4 oz

Lifespan	SpiroTiger®:	5 yrs.
	Respirator-bag:	3 month
	Mouthpiece:	3 month

Batteries 2 or 4 Batteries Idiag recommends: Alkaline batteries
Base Station Size AA 1.5V

Lifespan at 30 minutes training per day: approx. 3 month (4 batteries)
approx. 1.5 month (2 batteries)

Display of training duration: Range: max. 99 min. 59 seconds
Resolution: 1 second

Training-duration input range: 1-99 min.

Classification: Base Station: Degree of protection against electric shock: Type BF
Handheld Device: Degree of protection against electric shock:
Type BF equipment.
Classification according to the degree of protection against
ingress of water: IPX0 - Not classified.

Safety Certifications: CAN / CSA C22.2 No.60 IEC 60601-1 UL 2601-1

Sterilisation and disinfection methods:



Never expose Base Station or Handheld Device to boiling water!
Only air leading parts may be sterilized in boiling water, see
page 21.

Degree of Safety of application in the presence of flammable anaesthetic mixture with air or with oxygen or nitrous oxide:
Equipment not suitable for use in the presence of flammable mixtures.

Mode of operation: Continuous.

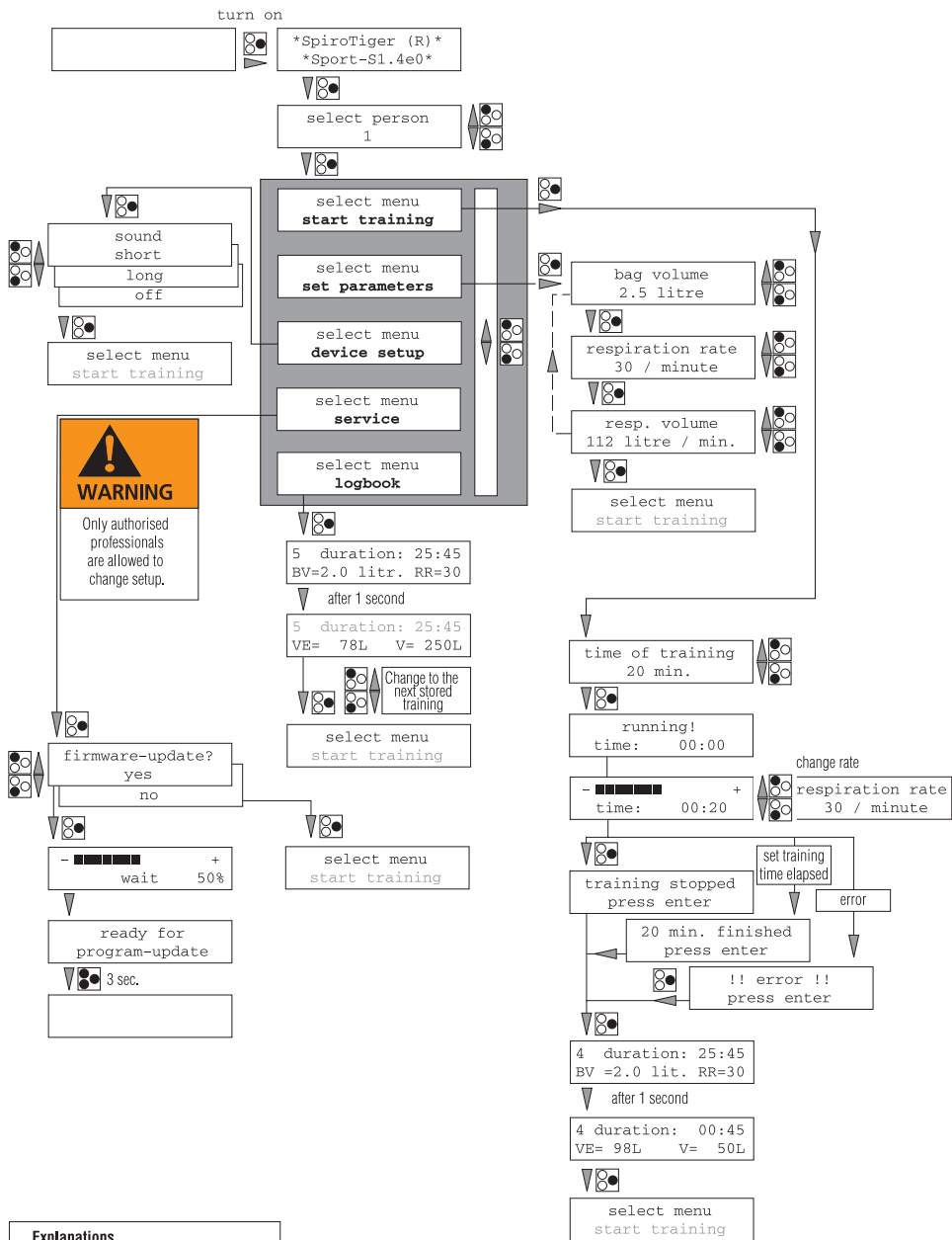
Information regarding interference and interference avoidance:

This equipment has been tested and found to comply with the limits for EMV and the limits for medical devices in IEC 601-1-2:1994. These limits are designed to provide reasonable protection against harmful interferences in a typical indoor installation.

Technical Data

This equipment can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interferences to other devices in the vicinity. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to other devices, which can be determined by turning the equipment on and off, the user is encouraged to try to correct the interference by one or more of the following measures:

- Increase the distance between interfering components.
- Consult the manufacturer or field service technician for help.



Explanations

Change of set value /
Change of selected menu

Operating, Transport and Storage Conditions

General transport and storage conditions

- The SpiroTiger® registers data with highly sensitive precision electronics. Shock and excessive vibration can damage these parts.
- Handle with care. Do not drop!
- Do not expose to extreme temperatures and direct sunlight.
- Do not expose to water, dampness or high humidity.
- Remove batteries for transportation and storage.
- Only use original SpiroTiger® packaging for transportation and storage.
- Hang up the respirator-bag with the opening downwards.

Operating conditions

- Temperature: +10 °C to +40 °C (50 °F to 104 °F)
- Relative Humidity: 30% to 75%
- Atmospheric Pressure: 700hPa to 1060hPa



Equipment not suitable for use in the presence of flammable (e.g. anaesthetic) mixtures with air, oxygen, or nitrous oxide.

- Typical operating environment: indoor environment, office, home
- For further information see above.

Transportation conditions

- Temperature: -40 °C to +70 °C (-40 °F to 158 °F)
- Relative Humidity: 10% to 95%, non-condensation
- Atmospheric Pressure: 500hPa to 1060hPa
- Only use original SpiroTiger® packaging for transportation.
- Do not cover with heavy objects.
- Remove batteries
- For further information see 'General Conditions and Recommendations'

Storage conditions

- Temperature: -40 °C to +70 °C (-40 °F to 158 °F)
(Respirator-bag: max. 25 °C / 77 °F)
- Relative Humidity: 10% to 95%, non-condensation.
- Atmospheric Pressure: 500hPa to 1060hPa
- Always store SpiroTiger® and Base Station in a dust-free environment.
- Only use original SpiroTiger® packaging for storage.
- For further information see 'General Conditions and Recommendations'
- Store the respirator-bag in a dark place.

Dear Customer,

Congratulations on your purchase of a SpiroTiger® and thank you for your confidence in Idiag. The SpiroTiger® has been designed in Switzerland, incorporating the latest scientific discoveries and manufacturing methods. High-quality components and materials guarantee the SpiroTiger's reliability and durability (see below). In the unlikely event of a malfunctioning, please do not hesitate to contact us.

Terms of Warranty

Idiag warrants this product to be free from defects in material and workmanship for a period of one (1) year from the date of its original retail purchase.

Guaranty performance can only be produced, if the Spiro-Tiger® is sent back to your local sales agent in the original package together with the original bill.

The guaranty performance includes the free of charge repair of the Spiro-Tiger®. The buyer carries the expenses for shipping, package, insurance and other costs.

The warranty excludes:

1. Batteries, respirator-bag and mouthpiece.
2. Regular inspections, maintenance and repair or replacement of parts due to normal wear and tear.
3. Risks and costs of transportation, which are connected directly or indirectly with this guarantee.
4. Damages to the SpiroTiger® caused by:
 - Abuse or misuse of the SpiroTiger®, particularly when the SpiroTiger® has been used for other applications than those described in this manual.
 - Non-observance of operating and/or maintenance instructions.
 - Unauthorized manipulations of hardware or software. Defects may only be repaired by the manufacturer or an authorized service center.
 - Accidents or environmental factors which lie beyond the control of Idiag e.g. damages caused by water, fire, intrusions, interference and acid solutions (leaking batteries).
5. This warranty exclusively applies to parts and devices distributed by Idiag.
6. This guarantee does not limit the purchaser's national legal rights. If the applicable national law does not stipulate anything to the contrary, the rights of the purchaser are limited to this guarantee and Idiag does not take any liability, nor responsibility for direct or indirect damages or losses connected with the use of the SpiroTiger®.



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