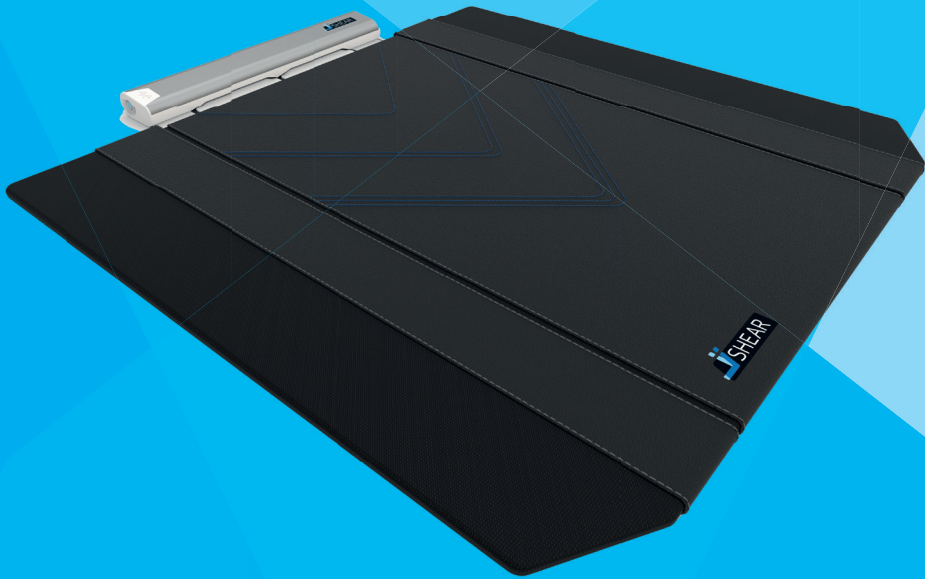


VICAIR®

iShear







EN VICAIR® ISHEAR USER MANUAL

Important: Please read this manual carefully before using the iShear device and the iShear display.

For more information or to (re)order manuals, contact your country's distributor.
Go to vicair.com for distributor information.

PREFACE

Thank you for choosing the iShear device and/or the iShear display. This manual provides essential information to help users familiarize themselves with the iShear and iShear display. We urge you to thoroughly read this manual before utilizing the iShear and/or the iShear display to ensure safe and efficient operation. Take time to understand the potential risks and hazards associated with the iShear and the iShear display (see Chapter 2: Precautions and Safety).

This manual specifically pertains to the product described in Section 1.3 Product Identification. Throughout this manual, the term 'iShear' refers to the product itself (sensor bar and mat), while 'the display' refers to the iShear display unit.

Refer to the table of contents to find information relevant to your requirements. It is recommended to keep a downloaded version of this manual on an accessible device near the product.

For additional inquiries, please contact:

Vicair B.V.
Bruynvisweg 5
1531 AX WORMER
The Netherlands
Website: www.ishear.com
Phone: +31 (0)75 642 9999

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1 INTRODUCTION TO THIS MANUAL

1.1 Intended Use and Reasonably Foreseeable Misuse

The iShear is designed for clinicians such as a doctor or therapist for measuring the Total Shear Force (TSF) in the seat plane of a client sitting in a wheelchair. It should be used in conjunction with the iShear display, employing a Bluetooth connection.

By using the iShear you can measure the Total Shear Force (TSF) in different wheelchair setups and create a situation in which TSF is as low as possible. This decreases the negative effects of TSF on the client. Clinical applications include, but are not limited to, evaluating wheelchair setups, assessing the influence of seat and back angles on TSF, and educational purposes for end users and caregivers.

Misuse can occur if the device is used beyond its capacity, capability, or operational boundaries. It is crucial to adhere to safety precautions and use the iShear only for the purposes defined in this manual.

When used as intended, there are no known contraindications.

1.2 Technical Specifications and System Requirements

Table 1: Technical Specifications and system requirements

Weight	iShear device	1.7 kg / 3.75 lbs
	Display	148 gr / 0.33 lbs
Dimensions (H×W×D)	iShear device	27 × 690 × 615 mm / 1.06 × 27.17 × 24.21 inch
	Display	62 × 95 × 45 mm / 2.44 × 3.74 × 1.77 inch
Material	Sensor bar	Aluminium
	Top layer mat	PU coated tricot and nylon fabric
Batteries	iShear device	4 AAA 1.5V /
	Display	LR03 batteries
Connection requirements Energy	Bluetooth Low Energy (BLE, also known as Bluetooth Smart). This Low Bluetooth version is in general available on devices since 2011. (first BLE version was Bluetooth 4.0).	
Wheelchair requirements	The iShear can be use in a seat plane of 35-50 cm / 13¾-20 inch width (X) and 35-50 cm / 13¾-20 inch depth (Y). (see Figure 12). The back-support canes must be at least 30 cm / 11.8 inch apart from each other.	
Allowed user wight on the iShear	Minimum: 45 kg / 99 lbs, Maximum: 120 kg / 264 lbs	
Ambient temperature	Minimum: -10 °C / 14 °F, Maximum: 40 °C / 104 °F	
Relative humidity	Operating: 30 to 75% RH (non-condensing) Storage: 10 to 100% RH (non-condensing)	



Figure 1: iShear

1.3 Product Identification

The iShear device can be identified by the sticker located on the product (see Figure 2).

The display is an independent unit that can communicate with all iShears. It can be identified by switching on the display and pressing the 'about' button.

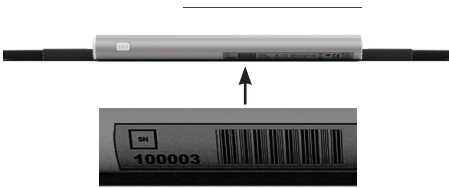


Figure 2: Location of the identification sticker with serial number

Table 2: Product identification

Product / Model	iShear
Serial number (SN)	6 digits. For instance 100003. See Figure 1.
Manufacturer	Vicair B.V.

1.4 Glossary of Terms











Table 3: Definitions of terms used throughout this manual.


Bluetooth	A Bluetooth Low Energy (BLE / Bluetooth Smart) connection between the iShear and the display is necessary.
Client	Person sitting in the wheelchair
Snapshot	A saved single measurement of TSF
Force Unit	The unit in which the TSF is measured: Kilograms (Kg), Newton (N) or Pounds (Lbs).
iShear	The physical product, see Paragraph 3.2 iShear
iShear display	The physical product, see Paragraph 3.3 iShear Display.
Lateral flaps	The left and right sides of the iShear mat.
Log	A saved over-time measurement of TSF
Logging	Continuous measuring over a set time period.
Seat plane	The horizontal plane between wheelchair seat base and the wheelchair cushion.
Sensor bar	The aluminium bar of the iShear
Share	Share Snapshot(s) or Log(s) via USB-c cable.
Sync	Synchronise saved Logs between iShear and the display
TSF	Total shear force in the seat plane measured by the iShear (anterior – posterior force parallel to the seat plane).

1.5 Symbols Used in This Manual

The following symbols will be used on the product and within this manual to highlight crucial information:

Table 4: Used symbols

	Manufacturer
	Date of manufacture
	Serial number (on sensor bar - see Figure 1)
	Lot number (on mat label - for example 27.01.2017)
	Caution! Consult instructions for use for important cautionary information such as warnings and precautions
	
	CE
IP31	Protected against tool, wires etc. greater than 2.5 millimeters. Protected against dripping water
	Keep dry
	Do not dispose of with other waste products; contact the manufacturer for instructions
	Waste Electrical and Electronic Equipment recycling Directive: Battery
iSHEAR	Model or Type:
	FCC ID : ZAT26M1 IC : 451H-26M1

 Reference number of the device

 Unique Device Identifier

 UK Conformity assessment

Danger! Danger! The signal word that indicates a hazard with a high level of risk which, if not avoided, will result in death or serious injury.

Warning! Warning! The signal word that indicates a hazard with a medium level of risk which, if not avoided, could result in death or serious injury and/or cause serious damage to the product.

Caution! Caution! The signal word that indicates a hazard with a low level of risk which, if not avoided, could result in minor or moderate injury and/or cause damage to the product.

Notice! Notice! The signal word that indicates information considered important, but not hazard-related (e.g. messages relating to property damage).



1.6 Disclaimer

It is the responsibility of the product owner to ensure the latest revision of this document is in use, as supplied by Vicair. The most recent version of this manual is available on the iShear website: iShear.com/support. Regularly check for software and documentation updates. The user should always keep an offline version of the manual accessible for reference.

Furthermore, the product owner must confirm that the user possesses this document, is aware of its contents, and follows the guidelines within.





2 PRECAUTIONS AND SAFETY INSTRUCTIONS

This section provides essential safety instructions for iShear users. It is imperative to read and adhere to these guidelines to ensure safe operation.

The iShear may only be used as intended. The use of this product in any other way, is considered to be misuse. Vicair B.V. cannot be held responsible for damage caused by misuse, improper use or negligence.

WARNING

- **Warning!** Improper use or care may lead to inaccurate measurements, malfunctions, failures, or damage to the iShear.
- **Warning!** The iShear should not be used with clients weighing less than 45 kg / 99 lbs or more than 120 kg / 264 lbs.
- **Warning!** Avoid using the iShear in temperatures below -10° C / 14 °F or higher than 40° C / 104 F.
- **Warning!** Do not pivot on the iShear.
- **Warning!** Do not pull excessively on the iShear during use or removal.
- **Warning!** Do not remove the iShear when the client is seated on the cushion.
- **Warning!** Keep the iShear away from water, bodily fluids, and humidity. Do not soak it in any fluids.
- **Warning!** Ensure incontinence material is used with incontinent clients.
- **Warning!** Inspect the iShear for visible damage before each session. In case of any visible damage, do not use the iShear. Contact Vicair.

CAUTION

- **Caution!** Do not remove the mat from the sensor strips of the iShear.
- **Caution!** Do not place the client directly on top of the iShear.
- **Caution!** Before starting a session with a new client, the iShear must be disinfected to avoid cross contamination.
- **Caution!** An iShear session may only be performed with the iShear placed underneath a seat cushion.
- **Caution!** Do not pinch or wrinkle the iShear.
- **Caution!** Do not fold the iShear in any other way than in the way it is originally placed in the storage case.
- **Caution!** Do not place any objects on top of a folded iShear.
- **Caution!** Do not use excessive force when placing the iShear in the chair.
- **Caution!** Be careful when using secondary positioning systems to transfer the client into the chair, as they may damage the iShear or alter its measurements.
- **Caution!** Check after transferring the client if the iShear and cushion are still in correct position.
- **Caution!** Always store the iShear in the original iShear storage case after each session.
- **Caution!** If the iShear is not in use for an extended period, remove the batteries from the battery compartment of the sensor bar.
- **Caution!** Do not use undiluted bleach or Hydrogen Peroxide to clean the iShear.
- **Caution!** Cleaning products or disinfectants must be thoroughly wiped off the iShear mat after cleaning/disinfecting. Allow the iShear mat to dry thoroughly before use or storage.

NOTICE

- **Notice!** Make sure that the lateral parts of the cushion are in between the lateral flaps of the iShear.
- **Notice!** Make sure that the lateral flaps of the iShear are not covering the top of the cushion.
- **Notice!** Make sure there is no loss of seat depth when placing the iShear in the wheelchair.
- **Notice!** Measurement data and patient data are not in any way collected or stored by Vicair.
- **Notice!** Within the display you have the option to store patient information. It is the user's responsibility to safeguard this (sensitive) patient information.
- **Notice!** Measured values can be different with different client weight.
- **Notice!** The iShear is not a product selection tool.
- **Notice!** Friction in the back system could create a different TSF value.
- **Notice!** The values measured by the iShear do not provide an indication of the risk of tissue damage.
- **Notice!** Because of internal friction measured values between -2 kg and 2 kg are less accurate.
- **Notice!** A (re-)calibration of the sensors may only be performed after specific instructions from Vicair.
- **Notice!** For safe disposal of the iShear: please contact Vicair for instructions.

3 PRODUCT DESCRIPTION

The iShear is a measurement device designed to measure the sliding force (TSF) in the seat plane of a client seated in a wheelchair. The iShear display serves as the user interface for the device.

In this manual 'sliding force' will be referred to as 'TSF', as explained in section 3.1.1.

3.1 TSF

3.1.1 Explanation of TSF

The Total Shear Force (TSF) measured by the iShear refers to the anterior-posterior force parallel to the seat plane. This force occurs between the cushion and the seat base interface. Please refer to the figures in this section for a detailed understanding.

In Figure 3 the client is sitting upright in the wheelchair. The forces shown in Figure 3 are the vertical forces, perpendicular to the seat plane. The weight of the client pushes down on to the cushion (gravity – green arrows) and the cushion 'pushes back' with a force in the opposite direction (normal force – red arrows).

In Figure 4, the client is leaning against the back support. This situation introduces horizontal forces, parallel to the seat plane. Besides the vertical forces, the client exerts a horizontal force into the back support and the back support 'pushes back' with a horizontal force in the opposite direction (red arrow in back support).

In addition, there are horizontal forces in the seat plane. Because the client is pushing back in the back support his/her body consequently pushes forward in the seat plane (green arrow in seat plane). This horizontal force in the seat plane is the 'sliding force' and what is referred to as the TSF in this document. The red arrow in the seat plane is the friction force.



Figure 3: Situation without sliding forces



Figure 4: Situation with sliding forces

3.1.2 Wheelchair Settings that Influence TSF

In clinical settings, TSF can vary based on wheelchair configurations, including seat angle, back angle, tilt angles, foot supports, back support interventions, and more. Variations in these settings can influence TSF readings.

3.2 iShear

The iShear comprises several components (see Figure 6, 7, 8 and 9), including the sensor bar made of aluminium, sensor strips, AAA batteries and iShear mat. The iShear display serves as the user interface. The mat consists of a low friction middle layer and a high friction top and bottom layer with lateral flaps.

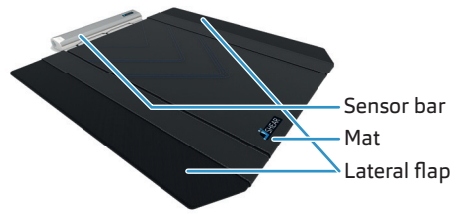
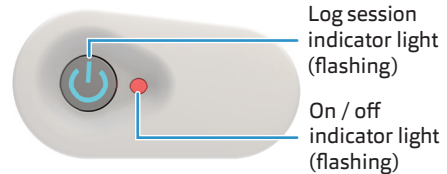
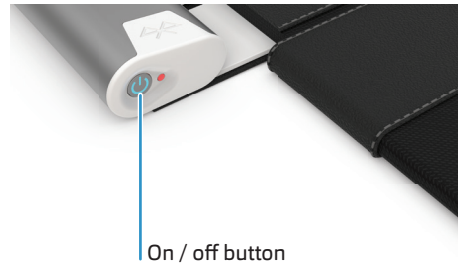


Figure 5: Components of the iShear



Battery compartment for four AAA batteries
Figure 6: Sensor bar components



Figure 7: Sensor bar with sensor strips and U-shaped metal profile for stabilisation



Figure 8: Carrying case



Figure 9: iShear display

3.3 iShear Display

The iShear display serves as the user interface for the iShear, and has several functions:

- Individual TSF Measurements: conduct single measurements of TSF using this function.
- Save Single TSF Measurements: utilize the 'Snapshot' function to preserve individual measurements securely.

- Over-Time TSF Measurements: utilize the 'Log Session' function to preserve measurements at a set interval over time.
- Measurement Management: view and compare your recorded measurements.

3.3.1 Connecting the Display with the iShear

1. Activate the Display:
Ensure the iShear and display is powered on and ready for operation.
2. Initiate Connection:
Tap the 'Press to scan for iShears' button (see Figure 10).
(Note: An iShear device must be nearby and powered on for successful connection.)
3. Select iShear Device:
From the list displayed (see Figure 10), choose the desired iShear for connection. Upon successful pairing, the Measurement screen will open automatically (see Section 3.3.2, Figure 11).

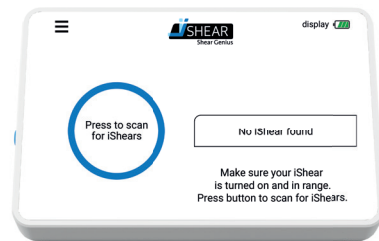


Figure 10: Scanning for iShear devices

3.3.2 Measurement screen

The Measurement screen serves as your primary interface for taking measurements. Here, you can initiate and monitor the measurement process efficiently.

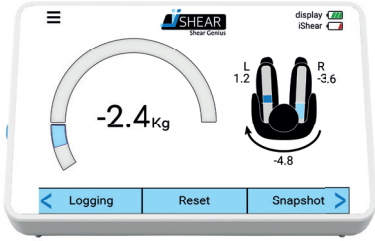


Figure 11: Measurement screen

Table 5: Measurement screen

	Menu
-2.4kg	Total Shear Force
display iShear	Battery levels
	Left and Right shearforce measurements
	Logging menu button
	Reset button, this button will reset the measurement values to 0
	Snapshot button

3.3.3 Menu screen

In the menu screen the displayed force unit can be selected: Kg/N/Lbs.

The display brightness can be adjusted by sliding the blue indicator left or right.

Connection details display:

- The name of the connected iShear
- A live readout from the connected iShear
- The current firmware version on the connected iShear
- The current firmware version on the display

To disconnect from the iShear press the Disconnect button.

Information on certification and manufacturer will show in a pop-up by pressing the 'about' button. To exit this screen press the pop up.

Set up time and date:

- Press menu
- Press the time/date you want to edit
- Select the appropriate time/date
- Exit by pressing the ✓

Exit the menu by pressing the menu button.



Figure 12: Settings and information menu



3.3.4 *Firmware updates for the Display*

New firmware for the iShear display will be made available on the website <https://ishear.com>. Click 'Support' and consequently 'Software & Firmware'. The new firmware can be installed by following these steps:

- Plug the iShear display into your computer
- Download the firmware on your computer
- Drag and drop the new downloaded firmware to the connected iShear display

4 BEFORE USING THE ISHEAR AND DISPLAY

4.1 Preparing the iShear

To ready the iShear for use, follow these steps:

1. Remove the iShear from its storage case.
2. Unlock the battery compartment (see Section 3.2, Figure 6). Extract it from the iShear and insert four AAA batteries. Take note of battery polarity displayed on the battery compartment when placing the batteries.
3. Re-insert the battery compartment into the iShear.

4.2 Preparing the iShear Display

1. Ensure that the iShear display is sufficiently charged.
2. Use the USB-C cable to charge the iShear display.



5 USING THE ISHEAR

5.1 Connecting the iShear with the iShear Display

To establish a Bluetooth connection between the iShear sensor bar and the iShear display:

1. Press the on/off button on the iShear (see Section 3.2, Figure 6). A flashing blue light indicates the iShear is powered on. iShear will stay in standby-mode for 3 minutes, after which it will turn off automatically.
2. Turn on the display (see Section 3.3.1, Figure 10).

5.2 Placing the iShear

To position the iShear in the wheelchair, follow these steps (see images 1-4 on the second page of the Quick Guide provided with the iShear):

1. Transfer the client out of the wheelchair.
2. Remove the seat cushion from the wheelchair.
3. Place the iShear on the wheelchair seat base, aligning the iShear horizontally between the back support canes. Ensure the lateral flaps are folded upwards against the side guards/arm support of the wheelchair. Maintain equal spacing between the iShear and the wheelchair canes on both sides (see Figure 13).

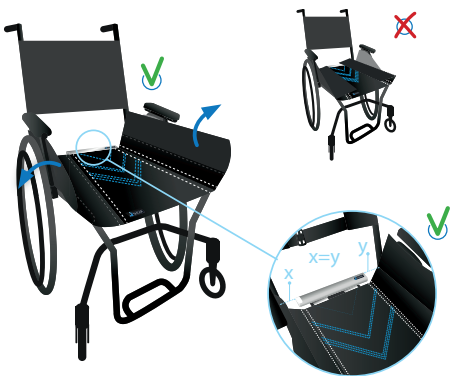


Figure 13

4. Reinstall the seat cushion on top of the iShear, ensuring the lateral flaps are positioned between the sides of the wheelchair cushion and the side guards of the wheelchair. Align the rear end of the wheelchair seat with the rear end of the iShear mat (see Figure 14).

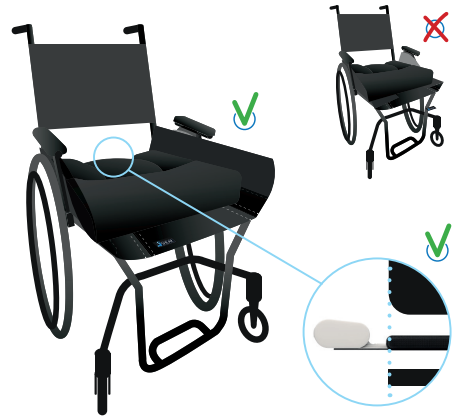


Figure 14

5. Transfer the client back into the wheelchair.

5.3 Measuring with the iShear

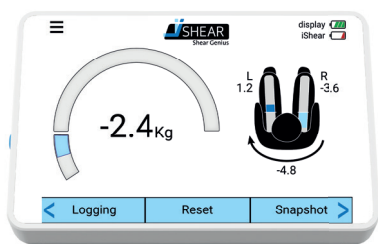
5.3.1 Before measuring

Before measuring the Total Shear Force (TSF) in various wheelchair setups, reset the TSF to zero in a neutral sitting position:

1. Have the client sit upright (on a horizontal level) in the wheelchair without leaning against the back support (see Figure 15).



Figuur 15: Sit upright and reset



Figuur 16: Sit upright and reset

2. Tap 'Reset'. The TSF value will be reset to 0 (Kg/N/Lbs) (see Figure 16).

5.3.2 Single measurement

To take a single measurement of TSF:

1. Allow the client to lean against the back support (see Figure 17).
2. Wait until the real time measurement is stabilized.

Small fluctuations may occur.

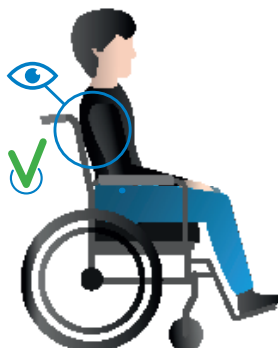


Figure 17: Lean against back support

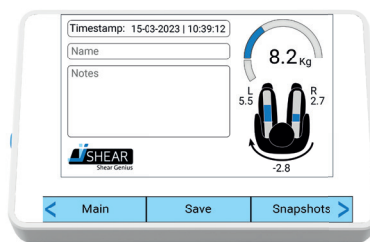


Figure 18: Lean against back support

To save the measurement:

3. Tap 'Snapshot' in the measurement screen (see Figure 18). The Snapshot screen opens.
4. Tap the text field 'Name' and fill in a patient ID.

The patient ID will be saved in the text field for easy editing as long as the display is not turned off.

5. Tap the empty text field 'Notes' and fill in any relevant information about this measurement or wheelchair setup. There is space for 200 characters.
6. Tap 'Save'. The status of the button changes to 'Saved', indicating the measurement is saved.
7. Tap 'Main' to leave the Save screen.

5.3.3 Over-time measuring (Logging)

To perform an over-time measurement of TSF in a specific wheelchair setup over a set duration:

1. Have the client lean against the back support (see Figure 17).
2. Tap the 'Logging' button in the Measurement screen (see Figure 16). This takes you to the Log session screen (Figure 19).
3. Tap the empty text 'Name' and fill in a patient ID. The patient ID will be saved in the text field for easy editing as long as the display is not turned off.
4. Tap the desired log interval to set the time interval of the measurement (see Figure 19).
 - 'Trend' = 1 measurement per 60 seconds.
 - 'Precise' = 1 measurement per 10 seconds.
 - 'Ultra' = 1 measurement per second.
 - 'Continuous' = 4 measurements per second.
5. Swipe right or left under 'Duration' to set the desired measurement duration in minutes (top) and/or hours (bottom).
6. Tap the empty text field 'Note' and fill in any relevant information about this measurement or wheelchair setup. There is space for 200 characters.
7. Tap 'Start'. The log session will commence, and the remaining time will be displayed on the Log session screen.
8. The red light of the Log session indicator on the side of the iShear will flash red during the log session.

(Note: The display does not need to remain connected or close to the iShear during the log session. The session will automatically stop at the set duration. When no longer connected to the display the iShear will shut off automatically 3 minutes after finishing the log session.)

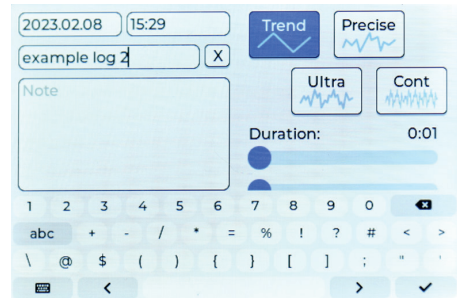


Figure 19

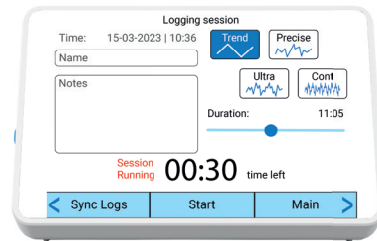


Figure 20

5.3.4 Stopping a Log

You do not need to keep your display connected or close to the iShear that is performing the Log session. Therefore it might be necessary to reconnect before you can stop the Log session before the end of the set duration. If your display and the iShear are still connected you can immediately perform step 4 and 5.

1. Turn on the display (see chapter 3.3.1)
2. Tap 'Press to scan for iShears' (see Figure 10), (see chapter 3.3.1)
3. Reconnect with the iShear that is performing the Log session (see chapter 3.3.1)

4. Tap the 'Logging' button in the Measurement screen (see Figure 16.). This will take you to the Log session screen.
5. Tap 'Stop' in the Log session screen to halt the log session (see Figure 20).

5.4 Removing the iShear after measuring

Remove the iShear from the wheelchair:

1. Transfer the client out of the wheelchair.
2. Remove the seat cushion from the wheelchair.
3. Remove the iShear and press the on/off button on the iShear for 2 seconds to turn the iShear off. The blue light first flashes rapidly before it turns off.
4. Place the seat cushion back in the wheelchair.

(Ensure the cushion is utilized as described in the cushion's instructions for use.)

5. Transfer the client back into the wheelchair.
6. Store the iShear in the provided storage case (see Section 6.3).

5.5 Snapshots

5.5.1 Viewing saved Snapshots

You can view saved Snapshots via the Snapshot screen or on your laptop/desktop.

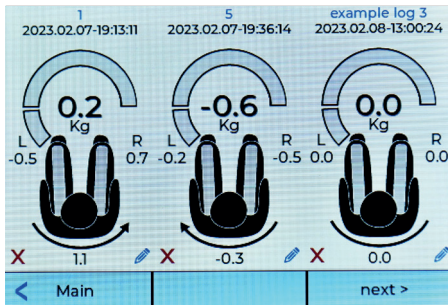


Figure 21

5.5.1.1 Viewing saved Snapshots on the Snapshot screen

1. Turn on your display.
2. Connect with an iShear.
3. Tap on the 'Snapshot' button.
4. Tap the 'Snapshots' button to view all the saved snapshots. Use the 'next' and 'prev' buttons to navigate through the saved snapshots.
5. Here, you can edit (Pencil pic) or delete (x) the saved snapshots.

5.5.1.2 Viewing saved Snapshots on computer

1. Connect your display to your computer with the USB-C cable.
2. Turn on the display.
3. The flash drive of the display will automatically appear.
4. Go to the snapshots folder.
5. Each saved snapshot includes a picture (BMP file) and raw data (CSV file). You can edit your data in the CSV file if necessary.

5.6 Logs

5.6.1 Viewing saved Logs

A saved Log is a CSV file. You can only open (view) a Log by connecting your display to a Laptop/Desktop.

Over-time measurements (Logs) are first saved locally on the iShear sensor bar.

5.6.2 SYNC procedure to Display

Syncing logs only works from iShear (sensor bar) to display and not from display to iShear. Log files that are saved on the iShear can be synced to any iShear display. It is advised to delete saved logs in the iShear after each session to prevent data leaks (see 5.5.3).

1. Make sure the display is connected to the iShear device you want to sync the log from.
2. In the logging menu tap 'Sync logs'. The display will check the 64 log slots for saved logs (see Figure 22.)

3. While 'working' is displayed, do not disconnect or turn off the iShear or display.
4. When the display is done Syncing the 'Sync Logs' button will change to 'Sync Complete' (see Figure 23.)

The log files are now saved to the display ready for viewing on a computer. To delete a log file from the display tap the red x and choose 'yes please' in the prompt asking for confirmation to delete.

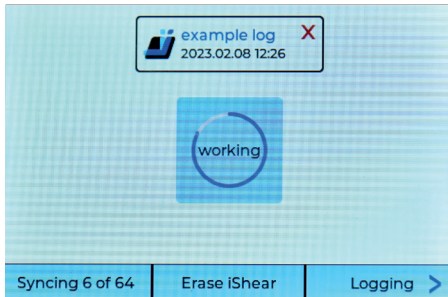


Figure 22

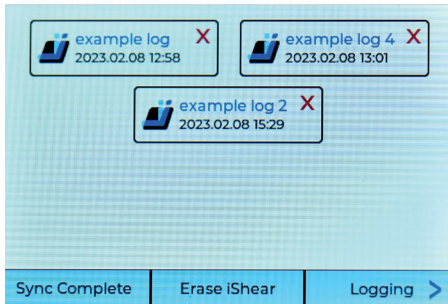


Figure 23

5.6.3 Viewing Logs on computer

1. Connect your display to your desktop with the USB-C cable.
2. Turn on the display.
3. The flash drive of the display will automatically appear.
4. Go to the Logs folder.

5. Each saved log is a CSV file (date-time-log-unit.csv). You can edit your data in the CSV file if necessary.
6. Copy any logs you want to save from the display to the computer.
7. Disconnect properly from computer after viewing/syncing files.

5.6.4 Deleting Logs from the Display

To delete a log file from the display, tap the red x in the 'Sync Logs' menu.

This will not delete the log from the iShear (see Figure 24.)

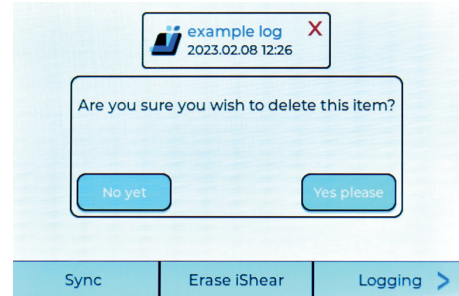


Figure 24

5.6.5 Deleting Saved Logs on the iShear

Logs are initially stored locally on the iShear.

Note: It is essential to save your logs on a computer before deletion! Refer to Section 5.5.2.2 'View logs on computer' for detailed instructions.

To delete all saved logs from the iShear:

Note: it is only possible to delete all logs that are saved on the iShear. Individual logs can be deleted from the display (see section 5.5.2.3)

1. Ensure your display is turned on.
2. Confirm your connection to the iShear (see Section 5.1).
3. Tap the 'Logging' button on the display.
4. Select the 'Sync Logs' option (see Figure 25).

- Tap the 'Erase iShear' button (see Figure 26). A confirmation popup will appear, asking if you are certain about erasing the iShear memory. Tap 'Yes, please' to proceed, and all logs will be deleted (see Figure 27).

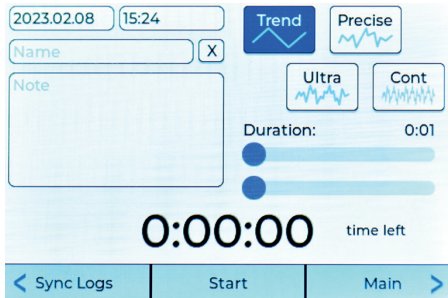


Figure 25

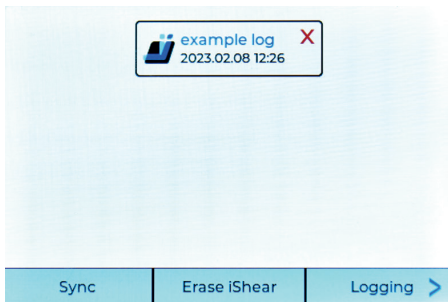


Figure 26

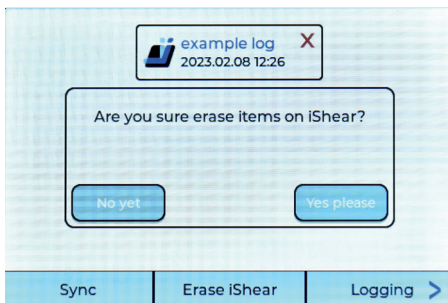


Figure 27

6 MAINTENANCE, CLEANING AND STORAGE

6.1 Maintenance and cleaning

Cleaning Instructions for the iShear Mat

To maintain hygiene and extend the lifespan of your iShear mat, follow these cleaning guidelines:

Daily Cleaning

Clean the iShear mat daily using a damp (not wet) cloth and a mild detergent mixed with water. Gently wipe the surface to remove dirt and stains.

Institutional Cleaning

For institutional cleaning, employ a general disinfectant cleaner. Mild alcohol-based cleaners or solutions containing no more than 10% bleach are suitable alternatives.

Avoid Using

Undiluted Bleach or Hydrogen Peroxide: Do not use these substances to clean the iShear mat.

Thorough Cleaning

After cleaning or disinfecting, ensure that all cleaning products or disinfectants are thoroughly wiped off the iShear mat. This step is crucial for preventing any residue buildup.

Drying Process

Allow the iShear mat to air dry completely before use or storage. Proper drying is essential to maintain its functionality and hygiene standards.

6.2 Disinfecting

Pre-session Disinfection Procedure

Before initiating a session with a new client, it is essential to disinfect the iShear to prevent cross-contamination. Follow these steps carefully.

Cleaning Process

Clean the iShear mat following the instructions provided above. It is preferable to use an antibacterial detergent for thorough cleaning.

Disinfecting the Mat

After cleaning, spray the entire iShear mat with a disinfectant solution. Ensure that the disinfectant covers the surface evenly.

Wiping Off Residues

After disinfection, wipe off any remaining cleaning products or disinfectants from the iShear mat. Thoroughly cleaning off residues is crucial to prevent buildup.

Drying the iShear

Allow the iShear mat to air dry completely before use or storage. Proper drying is necessary to maintain a hygienic environment and to ensure the iShear's effectiveness during sessions.

6.3 Storage

6.3.1 Storage Guidelines

When storing the iShear temporarily after each session, adhere to the following steps to maintain its functionality and longevity.

Turning Off the iShear

Ensure the iShear device is turned off completely before storing it. This helps conserve battery life and ensures it's ready for the next use.

Placing in the Carrying Case

Gently fold the two lateral flaps of the iShear downwards beneath the section with the sensor strips. This ensures safe and compact storage.

Proper Orientation in the Case

Insert the iShear into the provided carrying case with the top of the device facing upward. Proper orientation safeguards the device components during storage (see Figure 28).

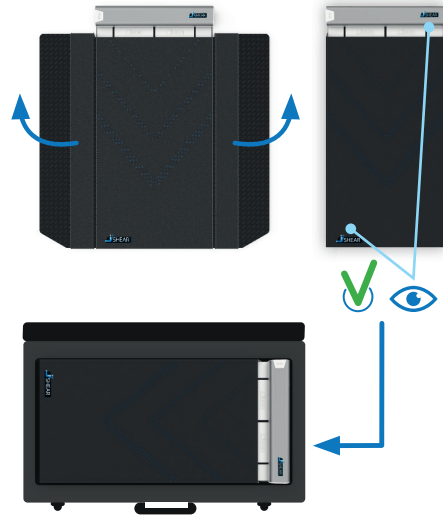


Figure 28

Choosing a Dry Storage Area

Store the iShear in a dry place to prevent moisture damage. Keeping it in a dry environment maintains its performance and extends its lifespan.

Battery Removal for Long-Term Storage

Before stowing the iShear for an extended duration, it's imperative to remove the batteries. This precautionary step prevents battery leakage, which could potentially harm the device.

Storage and Transport Guidelines

Ambient Temperature

Ensure the iShear is stored within a temperature range of -10°C / 14°F (minimum) to 40°C / 104°F (maximum). Adhering to these temperature limits safeguards the device's functionality.

Relative Humidity (RH)

For storage purposes, maintain a relative humidity range of 10% to 100% (non-condensing). Proper humidity control is vital to prevent moisture-related damage.

Proper Folding Method

Store the iShear precisely as described in the provided instructions. Avoid placing any objects on top of the folded iShear, ensuring it remains undisturbed during storage. This preserves its integrity and performance.

6.4 Disposing of the iShear

For safe disposal of the iShear: please contact Vicair for instructions.



The meaning of the symbol on the product, its accessory or packaging indicates that this product shall not be treated as household waste.

Please dispose of this product and/or accessory by

returning it to the manufacturer. Contact Vicair for information. See Chapter 9 for contact details.



Do not dispose of batteries as household waste. Take them to a battery recycling facility.

7 REPORTING OF SERIOUS INCIDENTS

Serious incidents from use of iShear should be reported to the manufacturer and the relevant competent authority.

8 WARRANTY

Vicair offers a limited warranty against defects in workmanship and materials for a period of two (2) years from the original date of purchase, provided the product has been used normally. Please retain your receipt as proof of purchase. Before using the iShear, the user must ensure that it is functional and in proper working conditions. The user must know how to operate the iShear.

These operating instructions are part of the iShear. Compliance with these operating instructions is mandatory in order to ensure the correct function and operation of the iShear. Any damage arising from abnormal use, or caused by improper handling, cleaning or negligence is excluded from this warranty. No responsibility shall be accepted for damage caused by any of the following: unsuitable or improper storage or use, incorrect installation or putting into operation by the owner or third parties, natural wear and tear, changes or modifications, incorrect or negligent handling, overuses, chemical, electrochemical or electrical interference or humidity, unless this is attributable to negligence on the part of Vicair. If operating, climatic or any other influences lead to a major change in conditions or material quality, the warranty for perfect functioning of the iShear shall be rendered null and void. This warranty is void if failure of the software and/or hardware has resulted from accident, abuse, or misapplication. Any modifications by a third party to the software and/or hardware will void the manufacturer's warranty and any



obligations to provide maintenance services. Should a defect in materials or workmanship occur within two (2) years from the original date of purchase, Vicair will, at its own choice, repair or replace the product free of charge. Remedies for breach of express warranties herein are limited to repair or replacement of the product. In no event shall damages for breach of any warranty include any consequential damages or exceed the cost of non-conforming goods sold. For additional product information, see our website: www.ishear.com.

9 ANY QUESTIONS?

Contact Vicair B.V. at info@vicair.com or contact your country's Vicair distributor.







**CE UK
CA**



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Vicair B.V.
Bruynvisweg 5
1531 AX Wormer
The Netherlands

info@vicair.com
www.vicair.com



ProPharma Group MIS Limited
Olliver, Aske, Richmond
North Yorkshire DL10 5HX
UK

