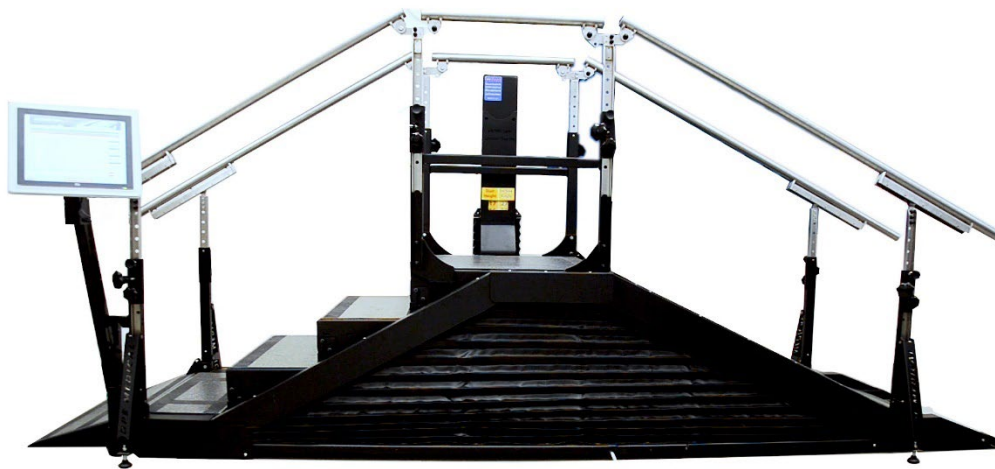


DST8000 Triple and DST8000 Triple Pro User Guide



Caution! No one should be on the equipment
while adjusting the stair/ramp height.

Admin initial login info

username: a

password: 2222

Ver-03-ENG

Aug 2023

Please note: This User Guide is suited both for the **DST8000 Triple** and **DST8000 Triple Pro** (computerized). Section 5 is relevant only for the DST8000 Triple Pro.

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1. Introduction

Dear Physiotherapist,

Stair climbing and walking on a flat surface up and downhill are basic everyday skills. The sooner patients can achieve independence while walking and stair climbing, the sooner they can return to normal life.

The revolutionary DST8000 Triple and DST8000 Triple Pro were developed in close cooperation with leading physiotherapists. It combines three devices in one, including an adjustable staircase for walking up and down steps, a walking surface inclined at different angles, and a full horizontal parallel bar.

With a click of a button, you can adjust the degree of the slope and the height of the stairs. Patients benefit from an optimal training regimen, leading to improved performance in less time and effort.

DST8000 Triple Pro features friendly software and user interface to manage and monitor treatments. It displays data from previous sessions to enable easy tracking of patient progress.

Clear and objective progress charts can be quickly generated for all training parameters. Treatment data can be downloaded or sent via email.

Thank you for choosing to incorporate the DST8000 Triple and the DST8000 Triple Pro into your clinic and rehabilitation program. We trust that it will help you provide high quality and successful patient care.

Intended purpose: practicing walking on flat surface, climbing stairs from 0-16.5 cm, and climbing slopes from 0-26 degrees.

Intended users: patients undergoing physical therapy, at the professional discretion of a physiotherapist.

2. Precautions and Safety Instructions

- The *DST* is to be used only under the supervision of an authorized physiotherapist.
- Take extra care if there are children in the surroundings.
- Do not place the *DST* next to windows that may interfere with its movement.
- Ceiling height: Make sure that when the *DST* is fully elevated, the patient's head does not reach the ceiling when standing on the top stair.
- Do not expose the *DST* to rain or moisture.
- Do not use the *DST* where water spills can occur.
- Do not use the *DST* when you or the patient are wet.
- Do not place the *DST* near a heating source.
- Do not allow anything to rest on the power cord or leave any cords hanging where people frequently walk.
- Before operating the *DST* make sure no objects or people will interfere with its vertical movement.
- No one should be on the device while adjusting its height.
- Unplug the *DST* before cleaning it.
- Do not attempt to service the *DST* yourself. If the *DST* does not operate, please refer to section 7.
- Unplug the *DST* and contact your authorized representative if one or more of the following occurs: The power cord or plug is damaged; The *DST* has been exposed to water; The *DST* has been damaged; The *DST* does not operate normally; Unusual noises are heard.
- Disinfection: to maintain patient's hygiene, you can disinfect the handrails of the device before usage.

- In case a serious incident occurs in relation to the device, please report immediately to DPE Medical and the relevant competent authority in your country.

3. Adjusting Stairs' Height / Slope Degree

3.1 Press and hold the up/down button on the hand-control until the desired height/angle is achieved.

3.2 Monitor the height/angle by watching the scale located on the central column.

Maximum stair height is 16.5 cm (6.5 inches)/ Maximum slope angle is 26 degrees. You can also monitor the changes on your screen when the software is used.

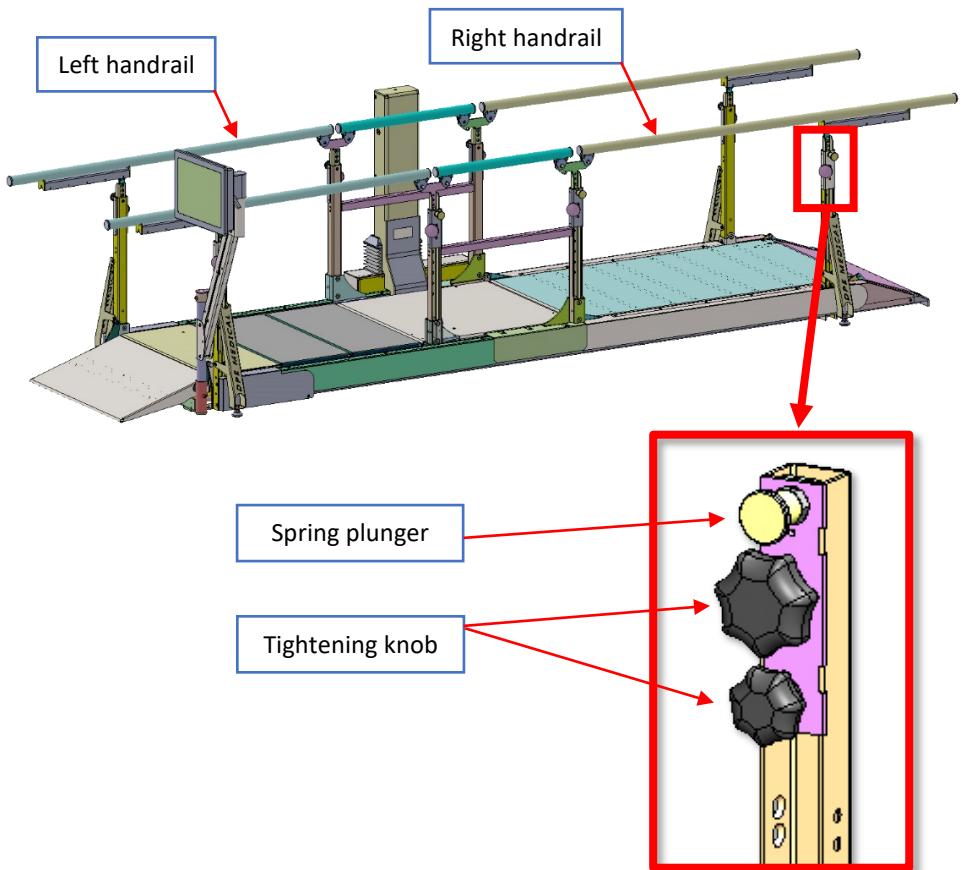


4. Adjusting Handrails' Height

4.1 Make sure that the DST is in a horizontal position (see section 5)

4.2 Every handrail (left or right) is supported by four columns (see drawing below). In order to change the height, adjust each column a few centimeters/inches at a time.

4.3 Turn of the tightening knob, hold the handrail, pull the spring plunger, and raise or lower the handrail. Engage the spring plunger to the new positioning hole and tighten the knob. Repeat this step for each column.



5. Using the Software

5.1 Pro System Features

5.1.1 Displays information about patient's previous sessions in graph form before every session.

5.1.2. Shows your patient's past progress and current status.

5.1.3. Tells you how long it takes your patients to climb up and down stairs of different heights and slope of different degrees.

5.1.4 Tracks and records all your patient's stair and slope climbing treatment sessions.

5.1.5. Generates patient's Progress Chart. Data can be shared and presented at professional meetings.

5.2 What is the DSF-Factor?

5.2.1 The DST-Factor is a score, generated by the software, which provides an accurate information regarding patient's current stairs' negotiation ability, together with a forecast of her/his improvement potential.

5.2.2 The DST-Factor is designated as follows: X-Y, where X is a number between 0 to 16 (0 to 6.5 where inches are used) and Y is a letter (A, B or C). The number represents the most recent stair height the patient climbed, and the letter represents the rate of progress: A - the patient has made significant progress; B - the patient has made moderate progress; C - the patient has not made any progress in the last 5 sessions.

5.2.3 The DST-Factor is calculated based on the last five sessions and is therefore shown only after 5 sessions have been completed. For example - **13-A** - patient mounted stairs of 13 cm and likely to further improve.

5.2.4 How the DST-Factor is calculated:

ΔH - The change in cm/inches between the current stair height and the height the patient climbed in the last five sessions.

ΔT - The change in seconds between the time it took the patient to climb stairs in the current session, and the time in the last five sessions.

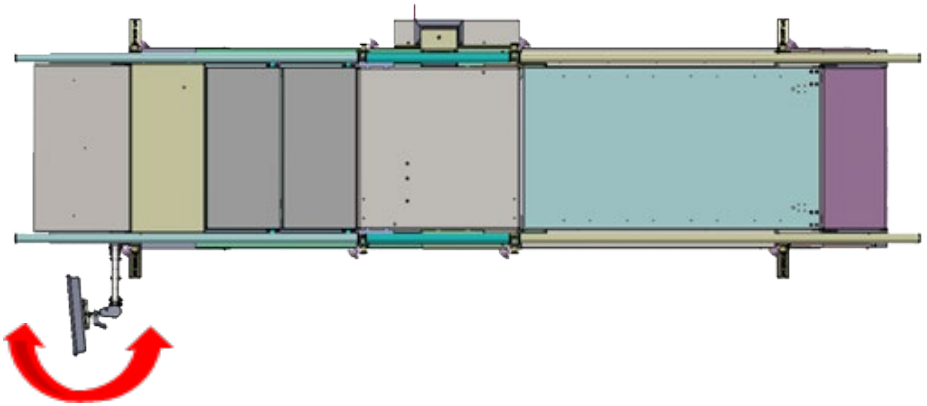
If $\Delta H > 2 \text{ cm (0.8 in)}$	Then DST Factor is:	(current height)-A
Patient made significant improvement in stairs' height		
If $0 < \Delta H \leq 2 \text{ cm (0.8 in)}$	Then DST Factor is:	(current height)-B
Patient made mild improvement in stairs' height		
If $\Delta H = 0$ and $\Delta T < 0$	Then DST Factor is:	(current height)-B
Patient made no improvement in stairs' height, but did improved practice time		
If $0 \geq \Delta H$	Then DST Factor is:	(current height)-C
Patient made no improvement.		

5.3 Screen Settings

After 20 minutes without use, the display will disappear and the sentence: **Tap to Start** will show on the screen. The software will shut off automatically after 5 hours without use.

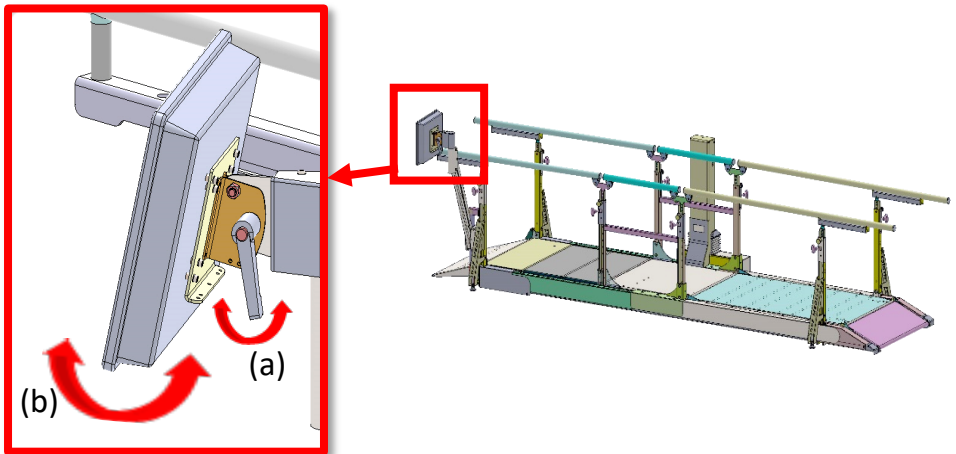
5.4 Operating the Screen

You can rotate the screen. See the red arrows.



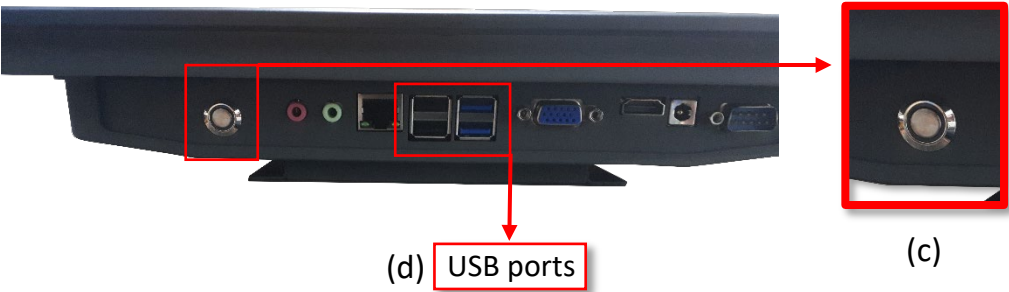
5.5 Changing the Angle of the Screen

Loosen the lever (a) and adjust the angle of the screen (b). Tighten the lever (a).



5.6 Turning the Screen On/Off

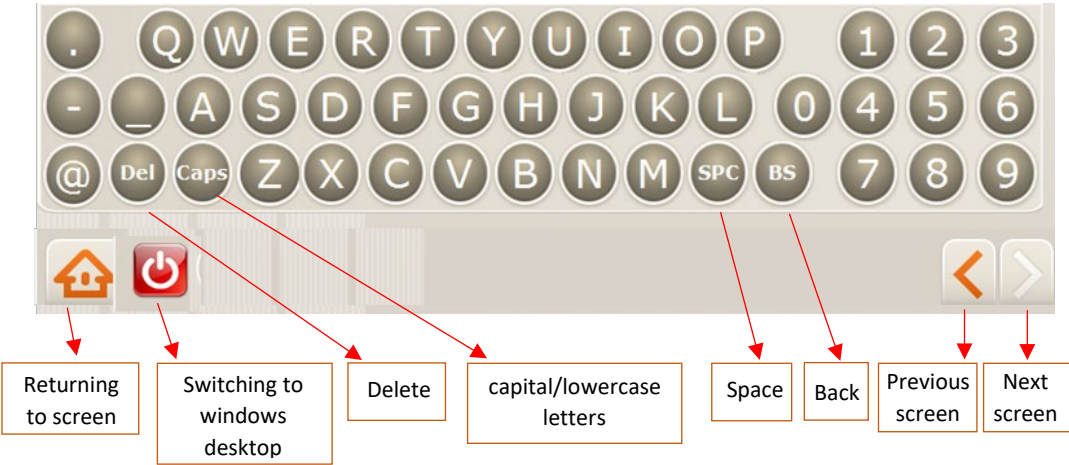
The on/off switch (c) is located at the bottom of the screen on the right. Press once on the switch to turn the screen on or off.



5.7 Inserting a Disk-on-Key (for downloading data)

The ports (D/E) for inserting DoK are located at the bottom of the screen on the left (d).

5.8 Using the on-Screen Keyboard



5.9 Connecting to Wi-Fi:

A Wi-Fi connection is needed for sending data outside the system and is essential for online support. Exit the software to windows Desktop. Press the icon “Network and Sharing...” and select “Connect or disconnect”. Select your preferred Wi-Fi connection. If a password is needed, press “On-Screen Keyboard” to enter a password. After establishing a Wi-Fi connection, press the DST Sense icon to log-in.

See “More information” if no Wi-Fi connection is available.

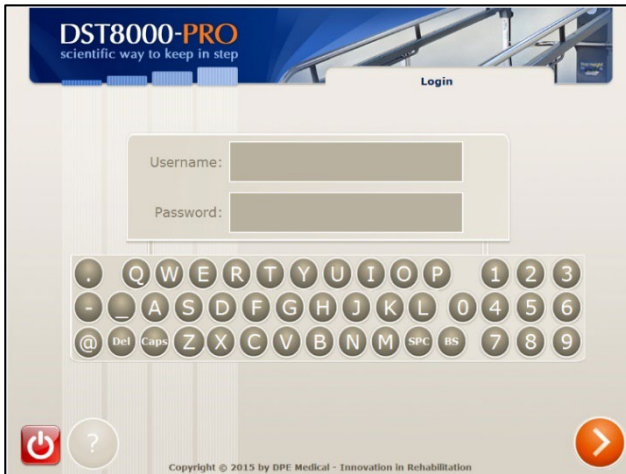
5.10 Getting Started:

The first login and initial setup should be done by the Administrator (such as the department head). See Section A - Initial Setup and Admin Options.

If initial setup has already been completed by the “Admin”, continue to Section B - Physiotherapist User Guide.

Important: Because the height sensor of the DST is very sensitive the figures after the decimal point may flicker. This is normal and does not affect the DST or the software performance.

5.11 Section A - Initial Setup and Admin Options



The login screen for the DST8000-PRO system. It features a blue header with the text "DST8000-PRO scientific way to keep in step". Below the header, there is a "Login" section with two input fields: "Username:" and "Password:". Below these fields is a virtual keyboard with letters, numbers, and special keys. At the bottom left, there is a red power button icon and a question mark icon. At the bottom right, there is an orange arrow icon. The copyright notice "Copyright © 2015 by DPE Medical - Innovation in Rehabilitation" is at the bottom center.

A-1 Login

Enter Admin initial login info:

username: a

password: 2222

Before using the system for the first time, the head of the department ("Admin") must complete the initial setup.



The administrator options screen for the DST8000-PRO system. It features a blue header with the text "DST8000-PRO scientific way to keep in step". Below the header, there is a section titled "Administrator - options". This section contains five orange buttons: "Edit institute data", "Edit physiotherapists and patients", "Download", "Change password", and "Calibration". At the bottom left, there is a home icon. At the bottom right, there are left and right arrow icons.

A-2 Admin Homepage

Press: "Edit institute data".



The settings screen for the DST8000-PRO system, specifically for "institute data". It features a blue header with the text "DST8000-PRO scientific way to keep in step". Below the header, there is a section titled "Settings - institute data". This section contains several input fields: "Institute name*" (with the value "Rehabilitation Hospital"), "E-mails:" (with the value "1* danielorgai@dpmed.com"), "Address*" (with the value "Illinoi"), "Chief physiotherapist*" (with the value "Chief"), and "Chief" (with the value "3"). Below these fields, there is a section titled "Units to be displayed:" with two radio buttons: "centimeters" (selected) and "inches". At the bottom left, there is a home icon. At the bottom right, there is an orange checkmark icon. A virtual keyboard is also present at the bottom.

A-3 Institute Information

- Enter institute data and confirm.
- Fields marked (*) must be filled.
- Patient's Progress Chart will be sent to the email addresses you list here.
- Choose measurement units for stair's height – cm or inches.
- Data can be edit at any time.



A-4 Admin Homepage

Press: "Edit physiotherapists and patients".



A-5 Edit PTs and Patients

- During initial setup you must enter the names of the physiotherapists who will have access to the system.
- Press "Add Physiotherapist" and continue to A-6
- Additional options are available for the Admin on this screen. See detailed information in A-8.



A-6 Add New PT

- Enter physiotherapists that will have access to the system and assign them a Username and Password. Press ✓
- If you will be treating patients, add yourself as physiotherapist with new login info.
- Data can be edited at any time.
- Inform your colleagues about their username and password.
- Password must contain 4 digits.



A-7 Admin Homepage

Press: "Change password".



A-8 Change Admin Password

- To change Admin login info: enter new Password and confirm.
- Make sure you remember your new login info.
- See "Support" if you forgot your login info.



A-9 Calibration

- Press Calibration and continue.
- Calibration is very rarely needed. The need of calibration can occur after displacing the **DST** or after service.
- If the height of the stairs, as shown at the Progress Chart, is different from the height shown at the front window,



Calibration

- Lower the DST to its flat position and press as instructed.



Calibration

- Raise the DST to its top position and press as instructed.



A-10 Admin Homepage

You have completed the initial setup and the system is ready for physiotherapists to start sessions.

- For download info see **A-11**.
- To additional Admin options see **A-12**.
- To vide PTs options, go to section **B**.



A-11 Downloading data

- To download patients' Progress Chart: after pressing "Download". select the appropriate drive (D or E) and confirm.
- A new library called: **ProgressCharts** will be created at your DoK and all Progress Charts will be saved there.

A-12 More Admin options

- **Change patient's PT:** Drag and drop the patient's name from one physiotherapist to another.
 - **Display patient's Progress Chart:** Tap twice on patient's name.
 - **Change PT's data:** Tap twice on physiotherapist's info (name, username, and password) and enter change.
-
- **To delete a PT:** Reassign PT's patients to other physiotherapists (see above "To change patient's physiotherapist") then press "Delete physiotherapist". A list of physiotherapists will be opened. Choose the name of the physiotherapist to delete and confirm. If this physiotherapist has patients, and you did not reassign them earlier, you will be asked to do so now.
 - **Remember:** if you want to treat patients yourself, add yourself as a physiotherapist as well.
 - It is recommended to prepare in advance a list of physiotherapists, their usernames and 4 digits passwords, before entering them at **A-6**.
 - If, after using the system for some time, you have questions, ideas, or requests, contact us at info@dpemed.com

5.12 Section B – Physiotherapist Options



The login screen for DST8000-PRO features a blue header with the text "DST8000-PRO scientific way to keep in step". Below the header, the word "Login" is centered. The main area contains two input fields: "Username:" and "Password:". Below these fields is a virtual QWERTY keyboard. At the bottom left, there is a red power button icon and a white question mark icon. At the bottom right, there is a large orange arrow pointing right. The footer text reads "Copyright © 2015 by DPE Medical - Innovation in Rehabilitation".

B-1 Login

- Enter Username and Password received from your Admin and press .



The "Patient - General" screen has a blue header with "DST8000-PRO scientific way to keep in step". Below the header, the text "Patient - General" is centered. The main area contains two large orange buttons: "Choose a patient" and "Add a patient". At the bottom left, there is a white house icon. At the bottom right, there are two white arrow icons pointing left and right. The footer text reads "Copyright © 2015 by DPE Medical - Innovation in Rehabilitation".

B-2 PT Homepage

- Press “Add a patient” to add a new patient and continue to B-3.

Or

- Press “Choose a patient” for an existing patient and continue to B-5.



The "Patient - Add" screen has a blue header with "DST8000-PRO scientific way to keep in step". Below the header, the text "Patient - Add" is centered. The main area contains several input fields: "Patient ID:", "First Name:", "Last Name:", "Pathology:" (with a dropdown menu showing "other"), "Gender:" (with a dropdown menu showing "Male"), "Birth date (dd/mm/yyyy):", and "Entry date (dd/mm/yyyy):" (with a date picker showing "19 05 2016"). At the bottom right, there is a large orange checkmark icon. Below the input fields is a virtual QWERTY keyboard. At the bottom left, there is a white house icon. At the bottom right, there are two white arrow icons pointing left and right. The footer text reads "Copyright © 2015 by DPE Medical - Innovation in Rehabilitation".

B-3 Add Patients

- To add a new patient, enter patient’s data and press .



B-4 PT Homepage

Press “Choose a patient” for an existing patient and continue to B-5.



B-5 Patients' List

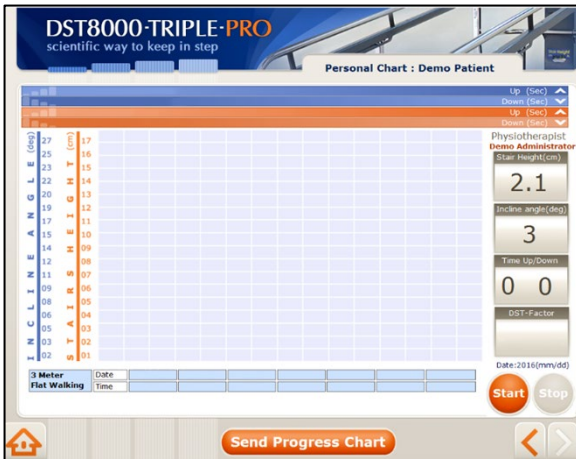
- Select a patient by pressing on his/her name and then press 
- For your convenience, a list of your patients is displayed on the left, as well as a general list of all other patients.
- Names are listed in alphabetical order.
- You can scroll up/down or enter the patient's name in the top empty field.



B-6 Patient's Options

- If you select “Start new session” continue to B-7.
- If you select “Edit patient data” continue to B-8.
- If you select “Delete patient data” continue to B-9.

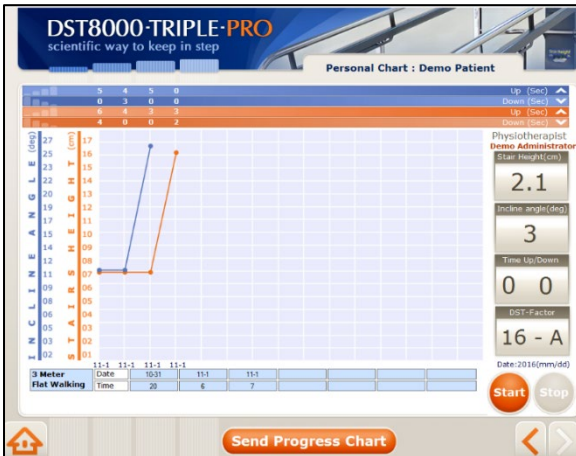
Patient's first session - Progress Chart is empty



B-7 Patient's Progress Chart

- If previous sessions are available, they will be displayed on the chart.
- If this is the first session, the chart will be empty.
- To document a treatment session press “Start” before the patient steps on the first stair.
- After the patient practice the stairs, his/her performance will be displayed on the chart.
- You must press “Start” whenever you want to record the treatment session.
- Press “Stop” to reset if the patient did not complete the practice.
- To email the chart press “Send Progress Chart”.
- For detailed info about the chart see page 21.

Patient's Progress Chart after several sessions





DST8000-PRO
scientific way to keep in step

Patient - Edit Data

Patient ID: 141414

First Name: dan

Last Name: fogel

Pathology: heart attack

Gender: Male

Birth date (dd/mm/yyyy): 3 5 1965

Entry date (dd/mm/yyyy): 19 05 2016

Q W E R T Y U I O P 1 2 3
_ A S D F G H J K L 0 4 5 6
@ Del Caps Z X C V B N M SPC BS 7 8 9

Home < >

B-8 Edit Patient's Data

- Edit patient's data and press 



DST8000-PRO
scientific way to keep in step

Patient - Options

Question

Are you sure want to delete Yval Madir?

Ok Cancel

Send report

Home < >

B-9 Deleting a Patient

Deleting a patient from the system will not delete their Progress Chart

5.13 Progress Chart Display

DST8000-TRIPLE-PRO
scientific way to keep in step

Personal Chart : Demo Patient

Name of patient: **Demo Administrator**
Name of physiotherapist: **Demo Administrator**

	5	4	5	0	
Up (Sec)	0	3	0	0	Up (Sec) ▲
Down (Sec)	6	4	3	3	Down (Sec) ▼
	4	0	0	2	Up (Sec) ▲
					Down (Sec) ▼

Stair progress graph
Slope progress graph

Stairs' height: 2.1
Slope degree: 3

Current ascent/descent time: 0 0

Sessions' dates

	11-1	11-1	11-1	11-1				
3 Meter Flat Walking	Date	10-31	11-1	11-1				
	Time	20	6	7				

Physiotherapist
Demo Administrator
Stair Height(cm): 2.1
Incline angle(deg): 3
Time Up/Down: 0 0
DST-Factor: 16 - A
Date: 2016(mm/dd)

Start **Stop**

Send Progress Chart

3 meters flat walking time

Back to patient list

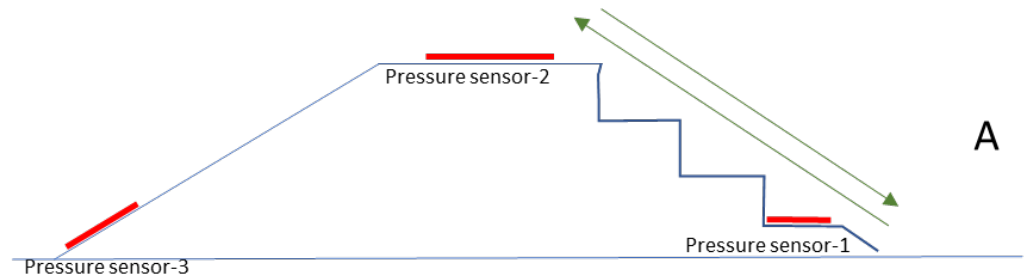
Back to screen #1

Stop/Start buttons

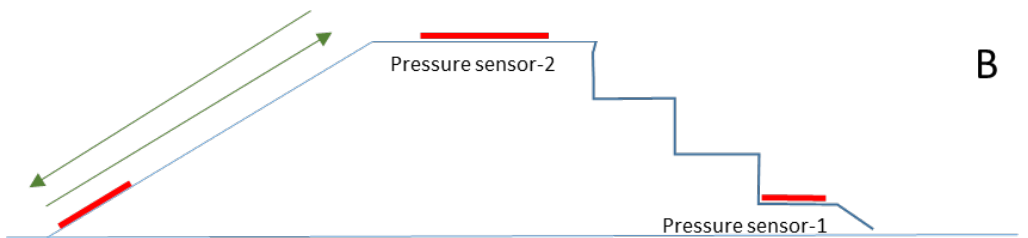
DST-Factor

5.14 What and how the DST8000 Triple Pro measures

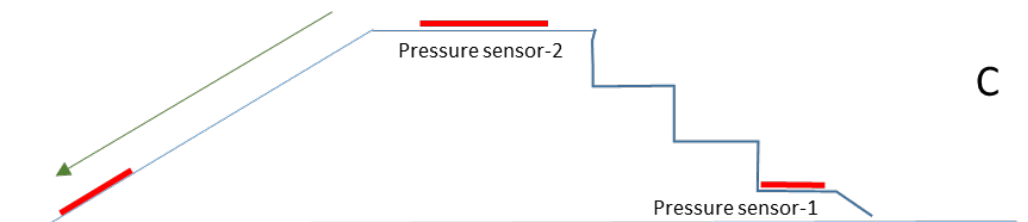
Option 1: Patient is going up and down the stairs. Software documents and displays the height of the stairs and the time it took to go up and down.



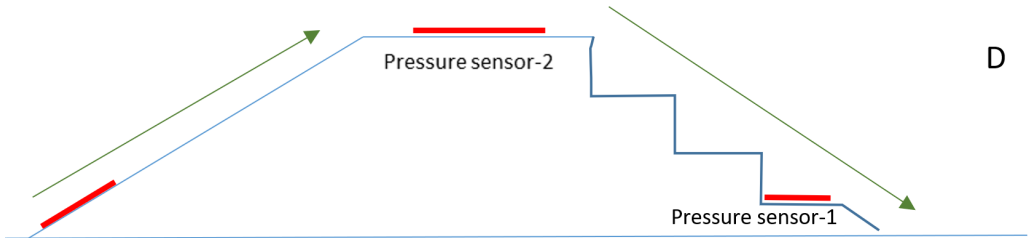
Option 2: Patient is going up and down the ramp. Software documents and displays the angle of the ramp and the time it took to go up and down.



Option 3: Patient is going up the stairs and down on the ramp. Software documents and displays the height of the stairs and the time it took to go up.



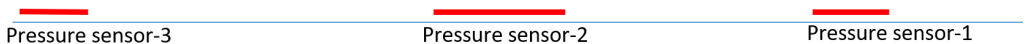
Option 4: Patient is going up the ramp and down the stairs. Software documents and displays the angle of the ramp and the time it took to go up.



Option 5: At the flat position (parallel bars configuration) patient is going from one side of the unit to the other side. Software documents the time it takes to walk 3 meters (10 ft.).

Note: if a patient does not complete the full 3 meters (10 ft.), the timer at the display will continue to run. Press Stop on the screen.

C



Note:

1. In order for the system to accurately documents patient's performance, the physiotherapist must pay attention not to step on the pressure sensors while the patient is on the unit. See the location of the pressure sensors at the above drawings.
2. If data is not documented properly or the timer on the screen does not stop, just press "Stop" on the touch screen and start over.

5.15 Additional information:

1. A Progress Chart is created and saved whenever you press “Start” on screen **B-7**.
2. If the computer is connected to the internet, each time you press “Send Progress Chart” on screen **B-7** the Progress Chart will be sent to the designated email addresses.
2. We recommend using only designated email addresses for receiving information from the Pro system.
3. The name of the PDF file containing the Progress Chart is comprised of the patient’s name and a serial number.
5. Patient’s information generated by the **Pro System** is confidential. Use discretion and follow your organization’s procedures for maintaining confidentiality of patient records and documents.
6. Use of the software is the sole responsibility of the user.
8. The aim of the DST-Factor is to provide a score that represents the patient’s current stair climbing abilities. However, it does not override or replace your professional judgment.
9. If Wi-Fi connection is not available, you can connect the computer to the network using an internet cable or a Net-stick. Consult your network technician.
10. You can download Progress Charts to a Disk-on-Key. See **A-9**
11. The DST can be used without the software.
12. Do not turn off the computer.
13. Minor visual variances can be between this Guide and the screen.
14. It is recommended that physiotherapists enter their patients’ details into the system in advance, and not before a session.

15. Remember: On screen **B-7**, you must press Start before the patient steps on stair #1/the main slope in order document the session.

6. Support:

1. If you encounter a problem using the software, try turning the screen off and on.
2. If the Admin loses the Password/Username, please contact DPE Medical: info@dpemed.com for new login info.
3. If the problem persists, send email to info@dpemed.com with a description of the problem, your name, email address, phone number and your institute's name and address. We will diagnose and fix the problem remotely and update you.

For remote support Wi-Fi connection is needed and the computer must be turned on.

4. Before cleaning the device, unplug it from the wall outlet. The outer surfaces of the DST may be cleaned with a dry cloth.
5. When service is required, or if you have any questions, please contact your distributor.
6. You are more than welcome to contact the manufacturer with comments, questions, or requests. Info@dpemed.com

7. Troubleshooting

Should the *DST* fail to operate properly please check that:

- The power cord is plugged into the wall outlet.
- The wall outlet has power. Check by plugging another electrical appliance into the outlet.
- The *DST* may be overloaded with excess weight. Clear the *DST* of all users and try again after 3 hours.

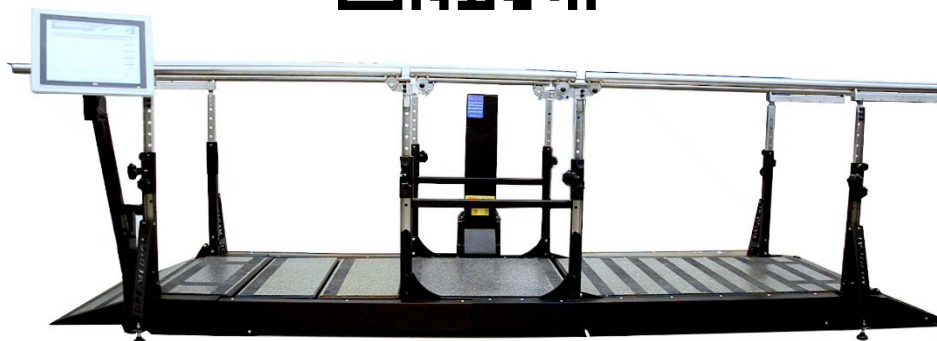
If the *DST* still fails to operate after trying all of the above, unplug the cord and contact your authorized *DST* representative.

8. Technical Spec

- Flat walking surface - 3 m/9.8 ft
- Handrail's length - 3.6 m/11.8 ft
- Total length - 3.6 m/11.8 ft
- Total width - 1.6 m/5.2 ft
- Stairs/slope width - 65 cm/25.6 in
- Stair's height - 0 to 16.5 cm/6.5 in
- Slope angle range - 0 to 26 degrees
- Handrail's height range - 65-93 cm/25.6-36.6 in
- Maximum load - 160 kg/352 lbs
- Unit weight
 - DST8000 Triple - 373 kg/820 lbs
 - DST8000 Triple Pro - 388 kg/853 lbs
- Regulatory compliance - IEC 60601-1 3ed, CE, UL (motor, controls)
- Operating interval - 2 min on / 18 min off
- Color, design, specs, and features may vary.
- Electrical requirements – 100-240V, 50/60Hz
- Self-life: 10 years
- Storage Conditions:
 - Temperature: 10° to 40°C (50°-104°F)
 - Humidity: 30% to 85% non-condensing

Pro system video guide

For your convenience, we have created a video user guide for the Pro system. Scan the QR code to watch the clip:



The DST models are developed and manufactured by:

DPE Medical Ltd.

49 Yefe Nof, Shoeva 9085500, Israel

Tel: +972-2-5791177; Fax: +972-2-5791188

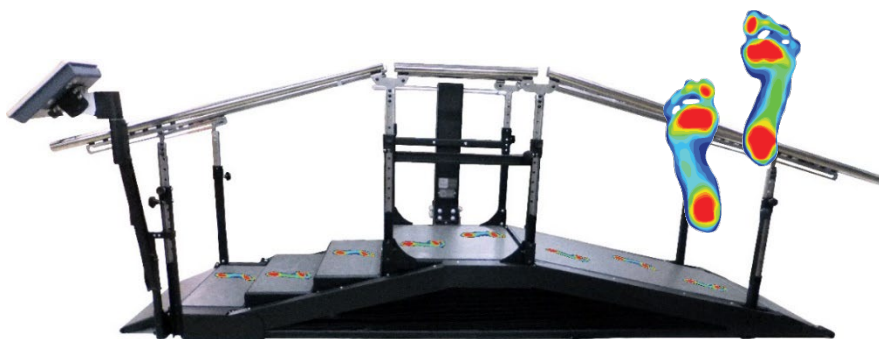
info@dpemed.com ; www.dpemed.com

Medical Device



DST Triple Sense

User Guide



The scientific way to keep in step



Caution! No one should be on the equipment
while adjusting the stair/ramp height

Admin initial login info
username: admin
password: Aa123456

Ver-03-ENG

Aug 2023

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Please Note

Front ramp, handrails, colors, and features may differ depending on your model and configuration

1. Introduction

Dear Physiotherapist,

Stair climbing and walking on inclined surfaces are basic everyday skills necessary for independence. The sooner patients regain these skills the sooner they can return to normal life.

The DST Triple Sense combines all three mandatory gait functions – flat-surface walking, climbing stairs and negotiating slopes, with the most advanced gait analysis technology, providing a comprehensive, evidence-based treatment. It helps diagnose, treat, and study patients' ambulatory capabilities on neurological, orthopedic, and geriatric rehabilitation.

With a click of a button, you can adjust the degree of the slope and the height of the stairs. Patients benefit from an optimal training regimen, leading to improved performance in less time and effort.

DST Triple Sense features friendly software and user interface to manage and monitor treatments. It displays data from previous sessions to enable easy tracking of patient progress.

Clear and objective progress charts can be quickly generated for all training parameters. Treatments' data can be downloaded or sent via email.

Thank you for choosing to incorporate the DST Triple Sense into your clinic and rehabilitation program. We trust that it will help you provide high quality and successful patient care.

Intended purpose: practicing walking on flat surface, climbing stairs from 0-16.5 cm, and climbing slopes from 0-26 degrees.

Intended users: patients undergoing physical therapy, at the professional discretion of a physiotherapist.

2. Precautions and Safety Instructions

- The *DST* is to be used only under the supervision of an authorized physiotherapist.
- Take extra care if there are children in the surroundings.
- Do not place the *DST* near a window that may interfere with its movement.
- Ceiling height: make sure the patient does not reach the ceiling when the *DST* is fully elevated.
- Do not expose the *DST* to rain/moisture/water.
- Do not use the *DST* when you or the patient are wet.
- Do not place the *DST* near a heating source.
- Do not allow anything to rest on the power cord or leave any cords hanging where people frequently walk.
- Before operating the *DST* make sure no objects or people will interfere with its vertical movement.
- No one should be on the device while adjusting its height.
- Unplug the *DST* before cleaning it.
- Do not attempt to service the *DST* yourself. If the *DST* does not operate, please refer to section 8.
- Unplug the *DST* and contact your authorized representative if one or more of the following occurs: The power cord or plug is damaged; The *DST* has been exposed to water; The *DST* has been damaged/does not operate normally; Unusual noises are heard.
- Disinfection: to maintain patient's hygiene, you can disinfect the handrails of the device before usage.
- In case a serious incident occurs in relation to the device, please report immediately to DPE Medical and the relevant competent authority in your country.

3. Getting started

3.1 Get your technical team's approval that the DST Triple Sense is properly installed and ready to use.

3.2 Before each use, check around the DST to make sure that there are no obstacles nearby that can interfere with the DST's movement.

3.3 No external equipment, elastic band, rope, etc., should be connected or tied to the DST.

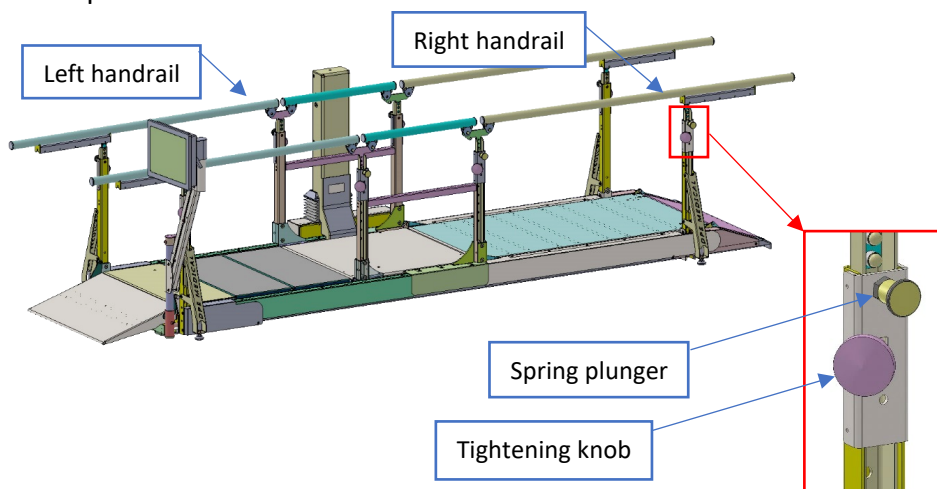
3.4 Before training with a patient, make sure that the handrails are at the appropriate height.

4. Adjusting the handrails

4.1 Make sure that the DST is in a horizontal position (see section 5)

4.2 Every handrail (left or right) is supported by four columns (see drawing below). In order to change the height, adjust each column a few centimeters/inches at a time.

4.3 (1) Release the tightening knob, (2) hold the handrail, (3) pull the spring plunger, (4) and raise or lower the handrail. Engage the spring plunger to the new positioning hole and tighten the knob. Repeat this step for each column.



5. Adjusting stairs' height and slope's degree

5.1 Press and hold the up/down buttons on the hand control until the desired stair height or ramp angle is achieved.

5.2 Monitor the height of the stairs or the angle of the slope by watching the scale located on the central column (centimeters are on the left, while inches are on the right).

Maximum stair height is 16.5 centimeters (6.5 inches) and maximum angle is 26 degrees. You can also monitor the changes on your screen when the software is used.



6. Using the software

6.1 Introduction

The DST Triple Sense software collect and analyze patient's gait performance on stairs, slope, and parallel bars. Recorded data includes: stair usage - ascend/descend height and time; slope usage - ascend/descend degree and time; parallel bars – 3-meter walking-time; right/left weight distribution; anterior/posterior foot distribution; step time; step length; center of mass; feet angle.

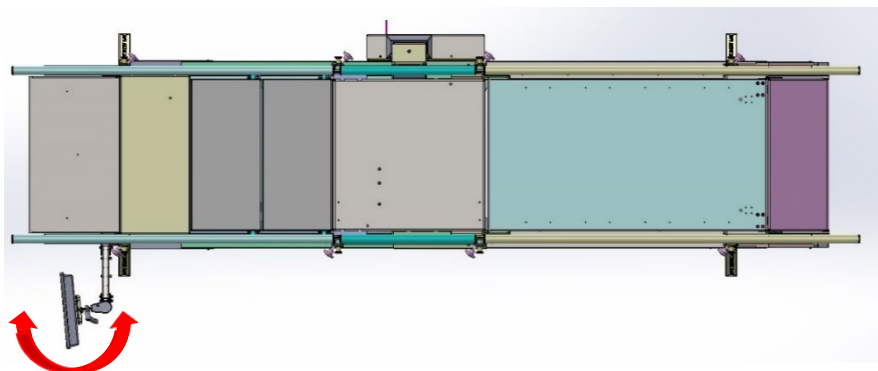
With a click of a button, a patient's progress chart is generated and displayed, including all past sessions' data. The progress chart can be emailed to medical staff for review and evaluation.

6.2 Screen settings

After 20 minutes without use, the display will disappear and the sentence: **Tap to Start** will show on the screen. The software will shut off automatically after 5 hours without use.

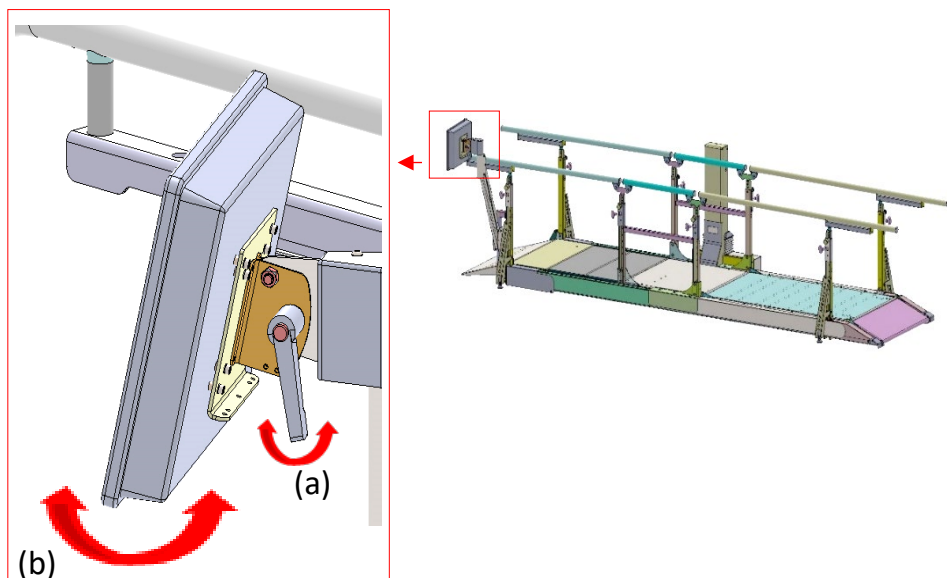
6.3 Operating the Screen

You can rotate the screen. See the red arrows.



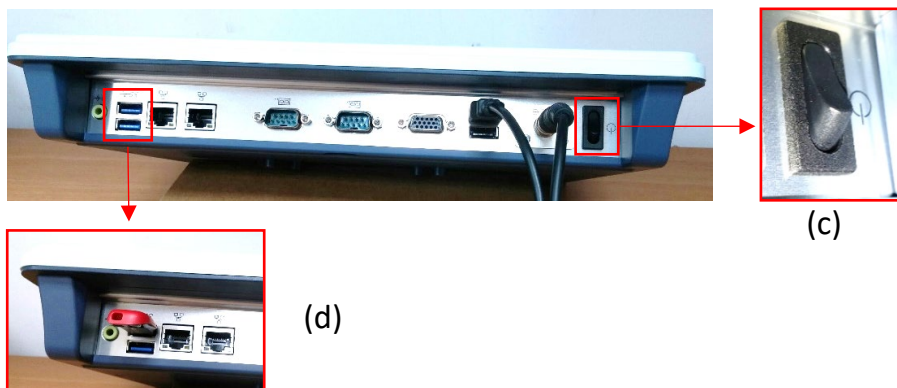
6.4 Changing the angle of the screen

Loosen the lever (a) and adjust the angle of the screen (b). Tighten the lever (a).



6.5 Turning the screen on/off

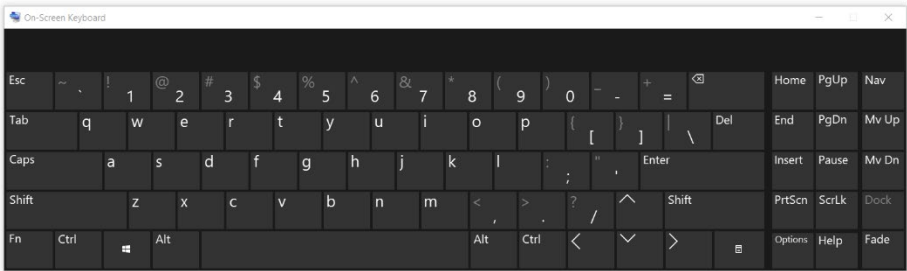
The on/off switch (c) is located at the bottom of the screen on the right. Press once on the switch to turn the screen on or off.



6.6 Inserting a Disk-on-key (for downloading data)

The ports (D/E) for inserting DoK are located at the bottom of the screen on the left (d).

6.7 Using the on-screen keyboard



6.8 Connecting to Wi-Fi:

A Wi-Fi connection is needed for sending data outside the system and is essential for online support. Exit the software to windows Desktop. Press the icon “Network and Sharing...” and select “Connect or disconnect”. Select your preferred Wi-Fi connection. If a password is needed, press “On-Screen Keyboard” to enter a password. After establishing a Wi-Fi connection, press the DST Sense icon to log-in. See “More information” if no Wi-Fi connection is available.

6.9 Getting started:

The first login and initial setup should be done by the Administrator (such as the department head). See Section A - Initial Setup and Admin Options.

If initial setup has already been completed by the “Admin”, continue to Section B - Physiotherapist User Guide.

Important: because the height sensor of the DST is very sensitive the figures after the decimal point may flicker. This is normal and does not affect the DST or the software performance.

6.10 Section A - Initial Setup and Admin Options

A-1 Login



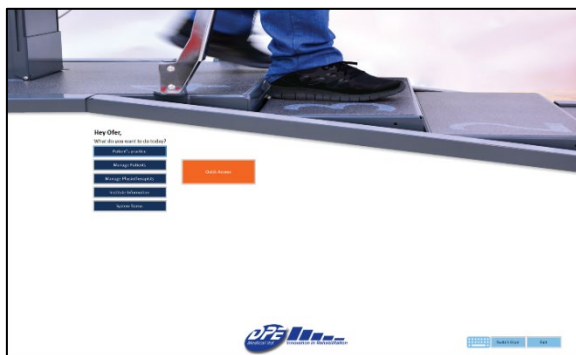
The login screen features the DPE Medical Ltd. logo with the tagline 'Innovation In Rehabilitation'. It includes a 'Login' button in the top left corner and a globe icon in the top right corner. The main area contains two input fields: 'Username:' and 'Password:'. Below these fields are two buttons: 'Close' and 'Login'.

Enter Admin initial login info.

Note:

- Before using the system for the first time, the Admin (such as head of department) must complete the initial setup shown below.

A-2 Admin Homepage



Must completed on initial setup:

- **Agree to terms of use**
- **Change password**
- **A-3 Institute's information.**
- **A-5 System status**

Other options:

- **A-4 Manage physiotherapists**
- **B-2 Manage patients**
- **B-3 Patient' practice**

A-3 Institute Information



The 'Institute Information' form includes fields for: 'Institute Name:', 'Address:' (with sub-fields for House Address, City, Postal Code, Country, and State), 'Device ID:', 'Installation Date:', 'Person Of Contact:' (with sub-fields for First Name, Last Name, and Email), and 'Height Unit:' (with radio buttons for Centimeters and Inches). There are 'Back' and 'Submit' buttons at the bottom. The DPE Medical Ltd. logo is at the bottom left, and 'Subscribed' and 'Exp.' buttons are at the bottom right.

- Enter institute's information and device's data.
- Choose measurements units (cm/inches).
- Data can be edited at any time.

A-4 Manage physiotherapists



- To add a PT Press **Add new** and fill PT's name and username below. Username must be unique.
- The system will automatically issue a uniform password for all new PTs. Password: Aa123456
- You can see a list of existing PTs. Click on a PT to present their info or edit their name,

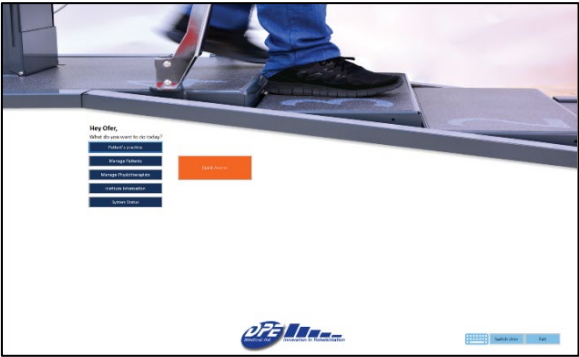
A-5 System status



- When entering 'System Status', the system automatically checks all its functions and provide a visual indication.
- Make sure there is nothing on the DST during the following steps:
 - **Force sensors connection:** Inside the blue boxes (on the left) all sensors' numbers should appear. If not, press **detect**. This will re-connect the sensors. If this does not fix the problem, try disconnecting and reconnecting the USB cables from the computer.
 - **Force sensors calibration:** If you see any data inside the blue boxes other than the sensor's number, such as green/blue/red dots, press **Calibrate sensors**. Make sure there is nothing on the DST. This process takes up to 10 seconds.
 - **Height sensor calibration:** Calibrate the height sensor by lowering the DST to zero (flat position) and pressing **Low calibrate**. Then, rise the DST to the maximum position and press **High calibrate**.

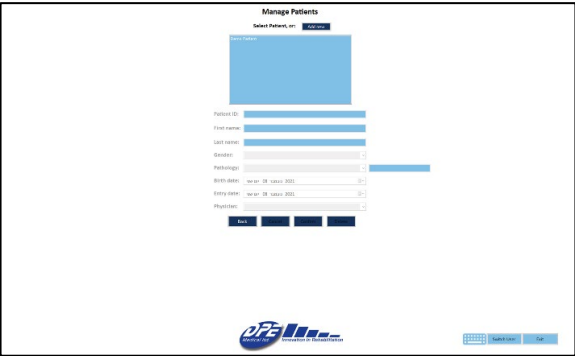
6.10 Section B – Physiotherapist Options

B-1 Physiotherapist Homepage



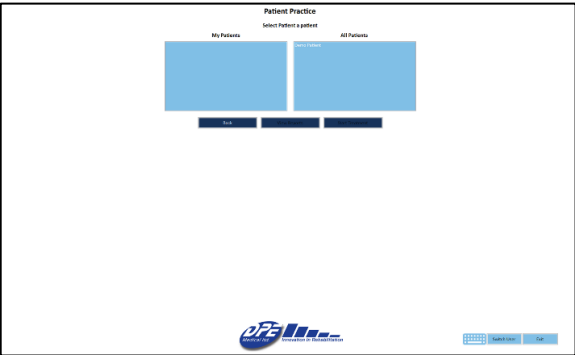
- **Manage patients:** will take you to a list of your patients, to add or edit their data. **See B-2**
- **Patient Practice:** will take you to a list of your patients. You can practice a patient or view past sessions. **See B-3**
- **Quick Start:** will take you to the Quick start practice – where no information is

B-2 Manage Patients



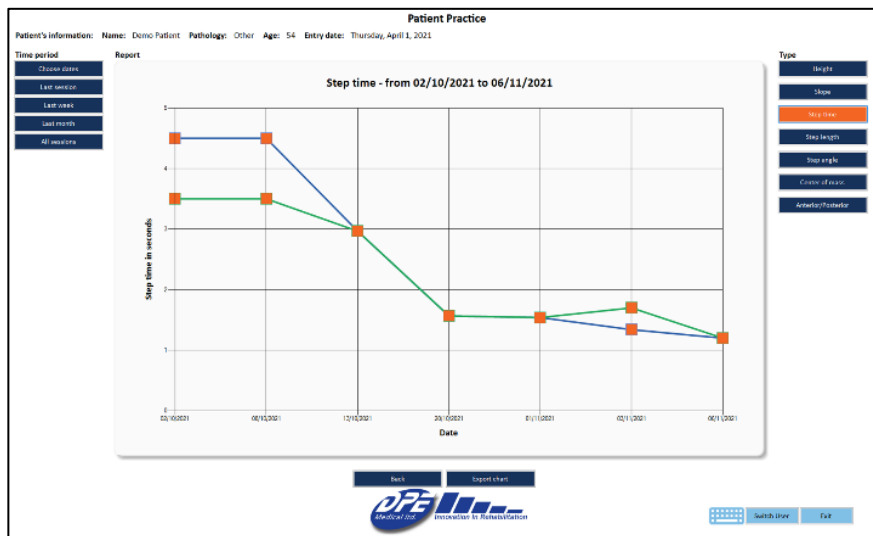
- To add a patient press **Add new** and fill patient's info below. At the bottom you can assign the patient to a specific physician.
- You can see a list of all existing patients. Click on a patient to present or edit their info.

B-3 Patient Practice



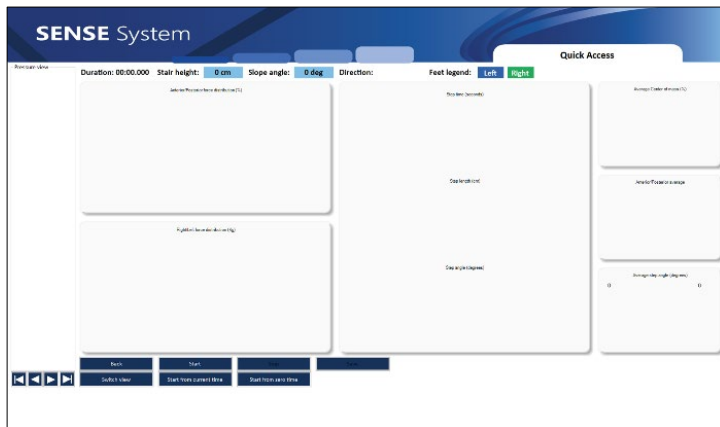
- On the left there is a list of all patients assigned to you. On the right you can see a list of all patients in the system.
- You can choose whether to practice the patient (**B-6, B-7**), or view past sessions (**B-4**).

B-4 Patient Past sessions



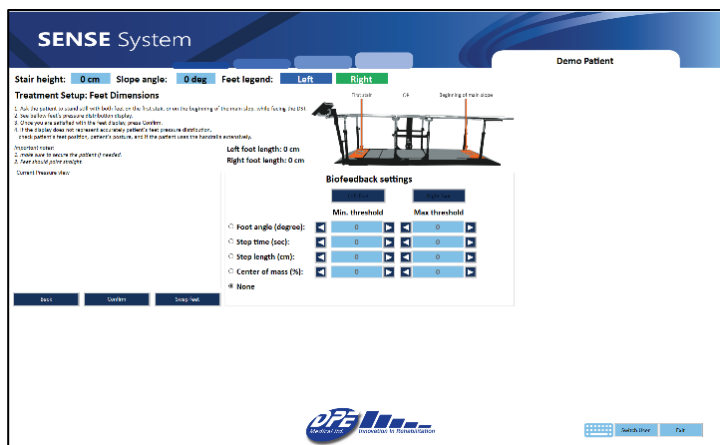
- In order to view patient's past sessions, choose the relevant time period (on the left) and the type of info (on the right).
- The graph in the middle will present the chosen data.
- You can change your choice at any time.
- Press **Export chart** to save current chart as PDF.
- Press **Export raw data** to export all sessions in csv format.
- Pressing on any orange square will open that session's complete data.

B-5 Quick Access



- The quick access option is designed to allow for rapid usage of the system without the need to enter a patient.
- The analyzed parameters are the same as those of the regular practice.
- **NO DATA IS RECORDED**, and is only shown on the screen.
- Treatment setup is required before practicing. See B-6

B-6 Treatment Setup



- Before practicing, the system needs to calibrate patient's feet dimensions. Follow instructions on the screen.
- Press **Confirm** to approve calibration and begin treatment.
- Make sure the system identified correctly the Right and Left feet. If not – press **Swap feet** to switch them.
- When not using the biofeedback feature, leave its setting on **None**.

Options on this screen:

- Press **Start** to begin recording data.
- Press **Stop** to stop recording data.
- Press **Save** to save current treatment data. Before pressing **Save** play the session from start to finish.
- Pressure view: On the left vertical rectangle you can see all recorded data. Click on any element to change foot classification (right/left), or to delete non relevant data.
- Press the play/playback/step-back/step-forward icons to view current recorded data.
- If there are overlapping elements in the pressure view: play until the overlap moment, then press **Start from current time** and press **step-back** one time. Now only elements from that time onwards will appear. You can correct the elements if needed, and then press **Start from zero** to view all session's data.
- Press **Back** to return to previous screen.
- Press **Switch view** to change Pressure view – from green/blue feet indications to force distribution indications.

B-8 Biofeedback - Settings

SENSE System

Stair height: 0 cm Slope angle: 0 deg Feet legend: Left Right

Treatment Setup: Feet Dimensions

1. Ask the patient to stand still with both feet on the first step, or on the beginning of the main step, while facing the DST.
2. See below feet's pressure distribution display.
3. Once you are satisfied with the feet display press Confirm.
4. If the display does not represent accurately patient's feet pressure distribution, check patient's feet position, patient's posture, and if the patient uses the handrails extensively.

Left foot length: 0 cm
Right foot length: 0 cm

Biofeedback settings

	Min. threshold	Max threshold
Foot angle (degree):	0	0
Step time (sec):	0	0
Step length (cm):	0	0
Center of mass (%):	0	0
# None		

Back Confirm Setup feet

DFE Medical Ltd. Innovation in Rehabilitation

Switch user Exit

With the biofeedback feature PTs can choose a variety of movement patterns for their patients to practice and use real-time feedback to improve upon it.

For example, a PT can decide to focus on the right foot angle, and adjust the acceptable range (in degrees). When the patient rises to the challenge and performs within the range, a positive sound will be heard. If the patient deviates from the accepted range, the positive auditory feedback will stop and a red mark will appear on the screen.

You can only receive biofeedback for the performance of one foot at a time

- First, adjust the biofeedback settings:
 - Choose the parameter you wish to practice, and set the acceptable range.
 - Choose the foot you wish to practice.
 - Choose what sound you wish to hear – positive, negative, or both.
- Second, follow instructions on the screen to calibrate feet dimensions.
- Press confirm and begin treatment.

B-9 Biofeedback Practice



- Press **Start** to activate the biofeedback feature and begin recording.
- When the patient performs within the acceptable range – a positive sound will be heard
- When the patient deviates from the acceptable range – and negative sounds will be heard, and a red mark will

7. Additional information:

1. Patient information generated by the **DST** is confidential. Use discretion and follow your organization's procedures for maintaining confidentiality of patient records and documents.
2. Use of the software is the sole responsibility of the user.
3. If Wi-Fi connection is not available, you can connect the computer to the network using an internet cable or a net-stick. Consult your network technician.
4. The DST can be used without the software.
5. Turn off the computer at the end of each day.
6. Minor visual variances can be between this guide and the displays on screen.
7. It is recommended that physiotherapists enter their patients' details into the system in advance, and not before a session.

8. Support:

1. If you encounter a problem using the software, try turning the computer off and on.
2. If the Admin loses the Password/Username, please contact DPE Medical: info@dpemed.com for new login info.
3. If the problem persists, send email to info@dpemed.com with a description of the problem, your name, email address, phone number and your institute's name and address. We will diagnose and fix the problem remotely and update you.

For remote support Wi-Fi connection is needed and the computer must be turned on.

9. Troubleshooting

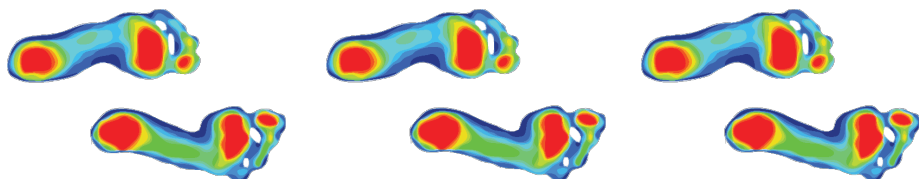
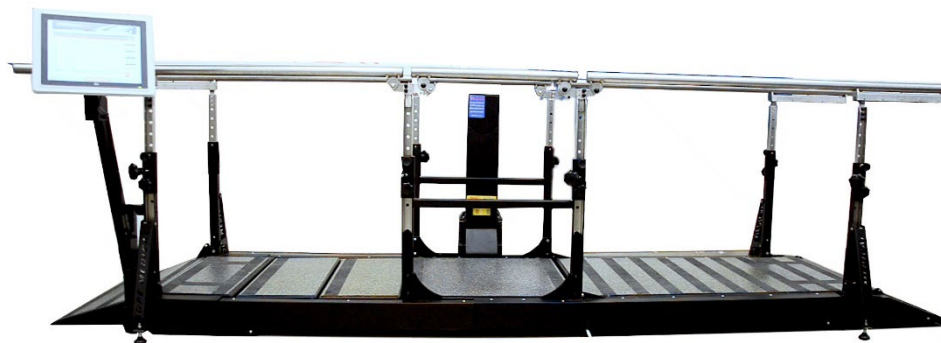
Should the *DST* fail to operate properly please check that:

- The power cord is plugged into the wall outlet.
- The wall outlet has power. Check by plugging another electrical appliance into the outlet.
- The *DST* may be overloaded with excess weight. Clear the *DST* of all users and try again after 3 hours.

If the *DST* still fails to operate after trying all of the above, unplug the cord and contact your authorized *DST* representative.

10. Technical Spec

- Flat walking surface - 3 m/9.8 ft
- Handrails' length - 3.6 m/11.8 ft
- Total length - 3.6 m/11.8 ft
- Total width - 1.6 m/5.2 ft
- Stairs/slope width - 65 cm/25.6 in
- Stairs' height - 0 to 16.5 cm/6.5 in
- Slope angle range - 0 to 26 degrees
- Handrails' height range - 65-93 cm/25.6-36.6 in
- Maximum load - 160 kg / 352 lbs.
- Unit weight - 388kg / 853 lbs.
- Regulatory compliance - IEC 60601-1 3ed, CE, UL (motor, controls)
- Operating interval - 2 min on / 18 min off
- Color, design, specs, and features may vary
- Electrical requirements – 100-240V, 50/60Hz
- Self-life – 10 years
- Storage conditions:
 - Temperature: 10° to 40°C (50°-104°F)
 - Humidity: 30% to 85% non-condensing



The DST models are developed and manufactured by:

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Medical Device

