

FUTREX[®]-6150

Owner's Manual



REVISION NUMBER AND DATE: REV. D JUNE 25, 2019

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Safety Information

To assure correct use of this product, basic safety measures should always be taken including the warning and cautions listed in this section.

SAFETY SYMBOLS USED IN THIS OWNER'S MANUAL	
 WARNING	Indicates a potentially dangerous situation which, if not avoided, could result in severe injury or death.
 CAUTION	Indicates a potentially dangerous situation which, if not avoided, could result in minor injury to the user or patient or damage to the equipment or other property.

Device Operating Cautions and Warnings



Contact your physician for detailed information and advice about your percent body fat. Self-diagnosis and treatment using measurement results may be dangerous. Follow the instructions of a licensed healthcare provider.



The FUTREX-6150 is not intended to be a diagnostic device and is for screening purposes only.



Read all of the information in the Owner's Manual before operating the device.



Operate the FUTREX-6150 only in the manner intended. Do not use this device for any purpose.



Dispose of the device and accessories according to applicable local regulation.



Do not use a mobile device near the instrument. It could result in an operational failure

Care and Maintenance



Do not subject the monitor to strong shocks, such as dropping the device on the floor.



Do not expose the device or any of the components to water or submerge in water.



Store the device and components in a cool, clean, dry, and safe location.



Changes or modifications to the device not approved by the manufacturer will void the warranty. Do not attempt to repair the unit or components or disassemble the unit without expressed permission from Futrex.

Warranty Information

The following warranty card is included with your FUTREX-6150. Please read the card and return it to Futrex. Support is available by calling 301-733-9368 or E-Mailing service@Futrex.com.

Warranty Registration

(Please complete and return within 10 days) — Please Print—

MODEL NO. and/or DESCRIPTION _____ SERIAL NO. _____

DATE PURCHASED _____

NAME _____

ADDRESS _____

CITY _____ STATE _____ ZIP _____

DEALER'S NAME _____

ADDRESS _____

CITY _____ STATE _____ ZIP _____

☐ Check box if you desire to receive reprints of scientific papers on the performance of the Futrex Inc. product.
(There is no charge for this.)

OWNER: _____

SIGNATURE _____

1 YEAR LIMITED WARRANTY

Your Futrex Inc. equipment is warranted to be free from defects in material or workmanship for 1 year from date of delivery. Repair (or at our option, replacement) will therefore be made of any unit which proves to be defective during this period, provided the unit is returned properly packed, with all transportation charges prepaid, to Futrex Inc. at the address given below. Any repair approved hereunder will be made without charge to the owner for parts or labor. This limited warranty extends only to the original purchaser, is not transferable, and is limited to the purchase price of equipment. In no event will Futrex Inc. be liable for any incidental damages resulting from the equipment or any defect.

Claims under this limited warranty must be accompanied by the original sales ticket or shipping documents to establish date of purchase.

This limited warranty does not extend to units which have been subjected to misuse, abuse, neglect, accident or to units that have been used in violation of operating instructions. Equipment which, in our judgement, shows evidence of having been altered, modified or serviced without our authorization, or which has had its serial number altered or removed, will be ineligible for service under this limited warranty.

This warranty gives you specific legal rights, and you also may have other rights which vary from state to state. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above exclusion or limitation may not apply to you. Return of the enclosed warranty registration is not a condition precedent to warranty coverage and performance.

FUTREX, INC.
130 WESTERN MARYLAND PKWY
HAGERSTOWN MD 21740

Cleaning and Maintaining the FUTREX-6150

An alcohol swab should be used to disinfect and clean the light wand of the FUTREX-6150. To clean the FUTREX-6150 enclosure and screen wipe with a dry microfiber cloth.

In the event that harmful materials are used for cleaning, damaged equipment will not be serviced without charges regardless of the warranty period.

Service Requirements

For service within the warranty period or following; please contact Futrex Support and Service at 301-733-9368 or via e-mail *service@futrex.com*. Futrex is the only authorized service representative for Futrex products.

DO NOT attempt to repair equipment without Futrex's expressed approval. This is will result in a void of warranty.

Failure to follow the cleaning and maintaining requirements outlined on the previous page (Page 4) may result in failure of the equipment and possible health hazards. If there are any problems with the equipment, please take the following steps.

1. Gather the instrument model, serial number, date of purchase, and a description of the problem.
2. Call Futrex Service at 301-733-9368 or e-mail the information to *service@futrex.com*.

If necessary, Futrex will issue a Return Materials Authorization (RMA) number which you will need to include with your instrument if it requires to be sent back for service. More information will be provided to you about this process during your call to Futrex Service.

Appearance and Part Names

The FUTREX-6150 consists of the following items:



Instrument Travel Briefcase



FUTREX-6150 Enclosure



Light Wand



AC Power Supply



Optical Standard



Appropriate Style AC Power Cord

Setting Up the FUTREX-6150

Once you have verified that all of the components of the FUTREX-6150 have been included in the carrying case, the following steps should be taken to setup the instrument. Ensure you have sufficient table space to complete the assembly.

1. Connect the light wand to the appropriate connector on the right side of the FUTREX-6150 enclosure as shown:



Figure 1

2. Connect the AC Power Supply to the jack on the rear of the FUTREX-6150 highlighted by the arrow below.



Figure 2

3. Connect the appropriate style AC power cord to the AC adapter and then plug the power cord into a grounded AC socket. This will illuminate the green LED located in the slot on front bezel of the enclosure when the power button is located and also the green LED on the back of the enclosure beside the power jack.

4. Press the power button on the FUTREX-6150 enclosure as pictured below:

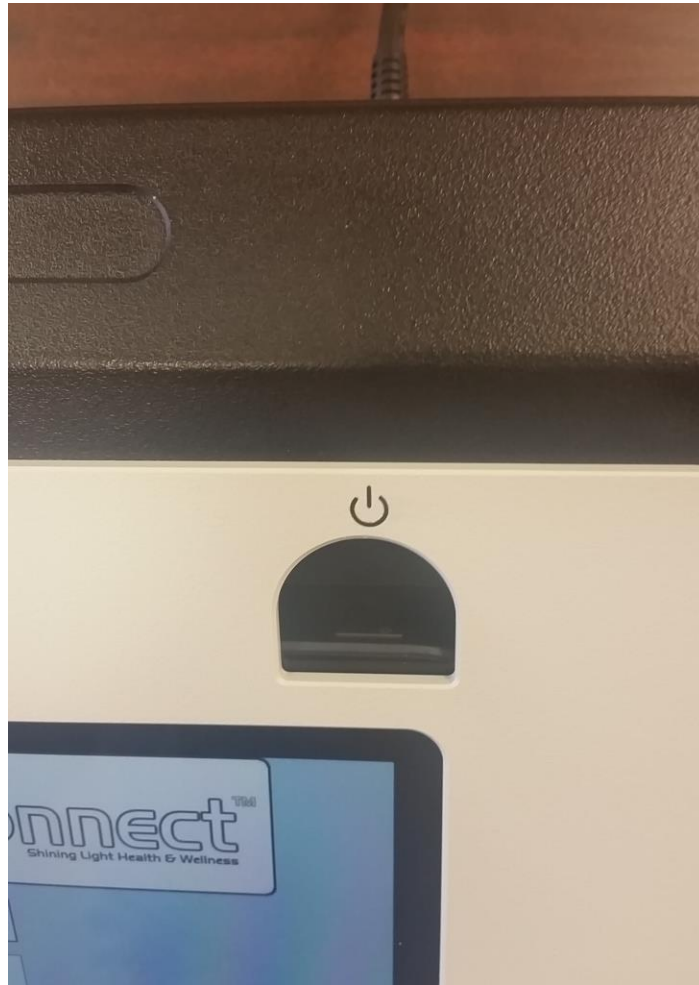


Figure 3

The instrument will automatically boot into the Futrex Connect software for the FUTREX-6150. This completes the setup of the FUTREX-6150.

Using the FUTREX-6150

IMPORTANT

Futrex has a demo video of the software operation available online. Visit www.futrex.com/support/videos to watch the Futrex Connect demo video or search “Futrex Connect” on YouTube.

The FUTREX-6150 is powered by Futrex Connect software. When the instrument is powered on the home screen shown below will be displayed.

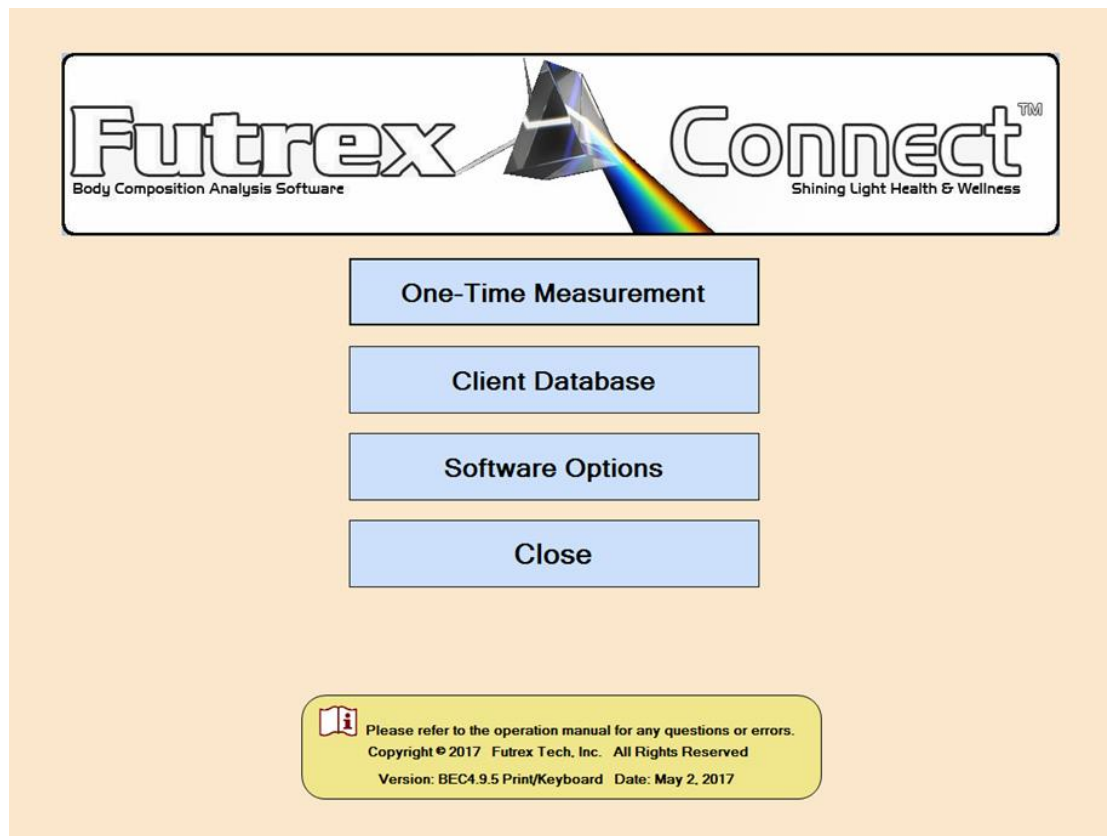


Figure 4

There are four options on the home screen:

1. One-Time Measurement – This option allows measurements to be performed without entering the client’s name. The results of these measurements are not saved in the client database but can be E-Mailed or saved locally.
2. Client Database – The PIN protected client database, and archive database, (**NOTE:** The default PIN is 9999. There will be more on this later) allows up to 10,000 clients to be entered by name in both databases. Once a client has been created you will be able to

select them from either database for any future readings and all past readings are saved in the clients' profile.

3. Software Options – The software options are also PIN protected and allows the operator to change settings in the software as well as Zero Adjust the light wand.
4. Exit – This can be used to close the software and access the Windows desktop to set-up the Wi-Fi, external printers, or computer settings.

Software Options

The Software Options menu allows the operator to control several settings within the software. When selected, the following screen will appear:

Enter PIN

Please use the keyboard or the mouse to enter your four-digit PIN.

NOTE

The default PIN is 9999. Enter this PIN at the Software Options menu to change the PIN.

Exit

7 8 9

4 5 6

1 2 3

0

Backspace

Figure 5

The Default PIN is 9999. Enter this PIN using the number pad provided in the software or with a keyboard. Once the PIN has been entered you will be able to customize the PIN to your liking within the software. This PIN will be required to access the Software Options menu and the Client Database. No PIN will be required for One Time Measurements or to exit the software.

The Software Options menu will appear as seen below:

Software Options

Language

中文 English

日本語

Español Français

Allow E-Mail Yes No

Internal Printer Yes No

Touchscreen Yes No

PIN Code 9999

Client Database

Import Export

Body Fat Bias 0

Measurement Units

Metric (kg, cm)

English (lbs, ft, in)

Exit Zero Adjust the Light Wand

Figure 6

The following items can be changed in the Software Options menu:

1. **Language** – The language for the software is available in English, Spanish, Chinese, Japanese and French. When the language is changed all text within the software (including the information on the results reports) will be changed. You may toggle between different languages without affecting how the software operates or supplies data. All information will be retained in all languages.
2. **PIN#** -- The default PIN, as previously mentioned, is 9999. You may adjust the PIN by clicking the box that contains the current PIN. There is more information on changing the PIN on the next page.
3. **Measurement Units** – The software can be run using either Metric or English units. The selected units will be used for the results as well as when inputting the client data. You may toggle between the two units of measure without affecting the results or information.

4. **Allow E-Mail** – You may disable the E-Mail functions of the results pages by toggling these settings to “No”. You may elect to do this if there is no external printer being used with the FUTREX-6150 or if internet access is not available. The FUTREX-6150 has a built in thermal printer.
5. **Internal Printer** – Please make sure that this option is turned on for your device. Your device comes with a built in thermal printer. This allows for only your results reports to be printed internally. To print the graphs of measurements over time, an external printer must be connected wirelessly to the enclosure.
6. **Touchscreen** – Please make sure that this option is turned on. The tablet provided inside your devices enclosure is a touchscreen tablet. The software allows you to use the touchscreen to navigate through the software. The software provides you with various touchscreens inside the software when needed.
7. **Client Database: Export** – To export your current Client Database, select Software Options on the main page. Enter in your four-digit pin. Select the Export button in Software Options under the Client Database option. A dialog box will appear showing the Client Folder. The software automatically locates the file folder for you. Press and hold on the Client Folder and then click Copy. From there navigate to your removable drive on the left-hand side of the dialog box under This PC. Press and hold on your removable drive and click paste. You have just copied your current clients from the Client Database to a removable drive that can now be imported. Your current clients are still encrypted on your removable drive and in the software.
8. **Client Database: Import** - To import your clients into the Client Database, select Software Options on the main page once inside the software. Enter in your four-digit pin. Select the Import button in Software Options under the Client Database option. A dialog box will appear showing your removable device. Locate the Client Folder on your removable device. Right click the Client Folder and then click copy. To place the Client folder in the correct location, follow the path
C:\Users\NAME\AppData\Roaming\Futrex\FutrexComm. *NAME* refers to the profiles on your computer. Choose the administrative profile You can type the path directly into the top of the dialog box that you are currently working in. Make sure to replace *NAME* with the name of your administrative profile. Press and hold inside the FutrexComm dialog box and select Paste. If you already have a Client Folder, agree to replace the folder when prompted. The system will decrypt and encrypt the clients on its own. Once this is done, simply exit the dialog box to return to the software. Your clients have been updated.
9. **Zero Adjust the Light Wand** – The Bod-eComm2 will automatically call for a zero adjust each time it is powered on; however, you may zero adjust the light wand at any time by selecting the button available at the bottom of the Software Options menu. When you select “Zero Adjust the Light Wand” the following screen will appear:

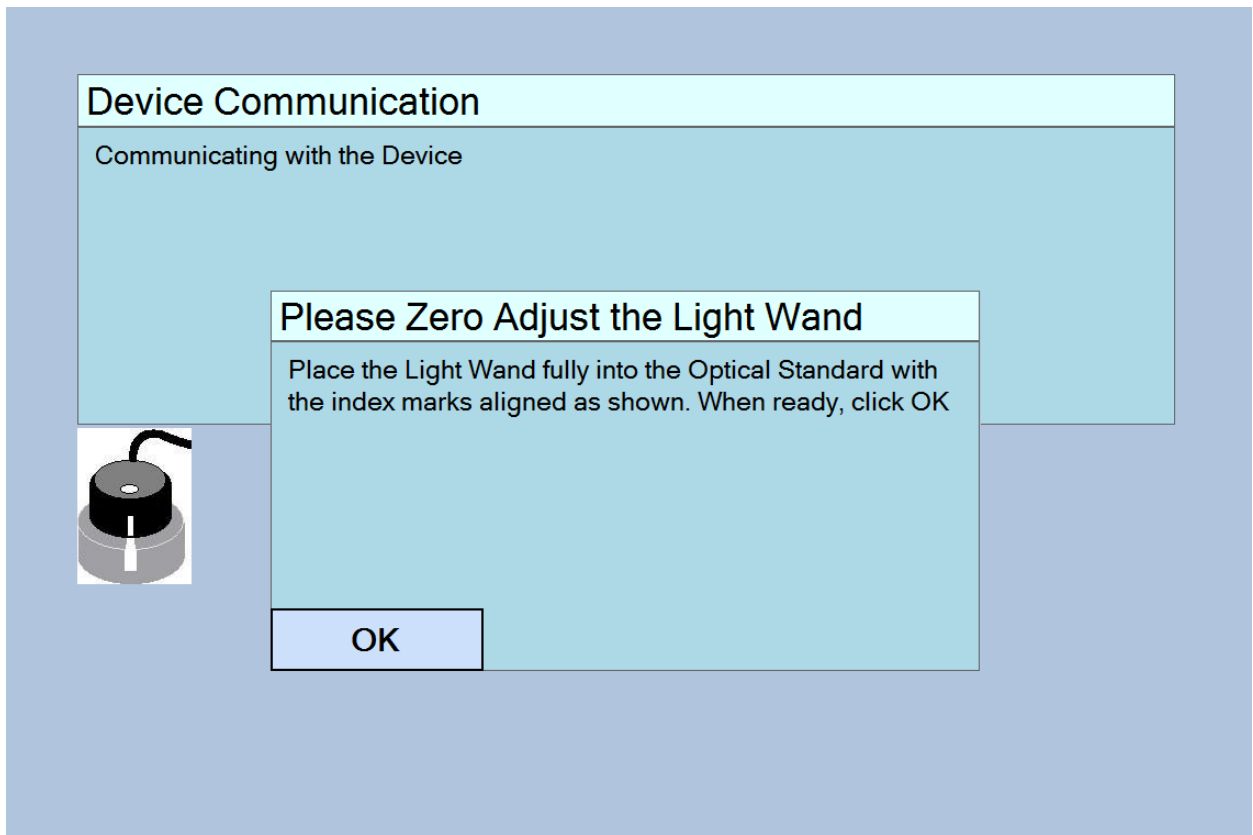


Figure 7

If present, remove the light shield from the light wand to ensure the light wand is fully seated in the optical standard and the silver stripes are lined up as shown in the image above. When this is done click the “OK” button provided on the display to perform the zero adjust. The software will return a “Zero Adjust Successful!” dialog and return you to the Software Options menu.

This completes the Software Options overview and setup. The next section will cover taking measurements both via the One-Time Measurement option and using the Client Database.

Performing a Measurement

One-Time Measurements

The Futrex Connect software allows “One-Time Measurements” to be taken by selecting this option on the main screen of the software. This measurement type is preferable when there is no need to record the client’s name or save their results for future reference. The results from measurements performed in this manner can still be E-Mailed and printed. The results page will show “Guest” in the header of the printout.

After “One-Time Measurement” is selected from the main screen the following screen will be shown:

One Time Use Information

This is a one-time reading. The results will not be stored. However, you will still have the option to print or email your results.

Date of Birth

Month Day Year ☐ Male
MM DD YYYY ☐ Female

Height

Feet Inches

Exit **Next**

Figure 8

Enter the requested information (Date of Birth, Gender, and Height) using the on-screen touch keyboard provided by the software. Press “Next” in the bottom corner to continue after you verify that the information is correct.

Input the client's current weight using the on-screen touch keyboard as is shown below in Figure 9. Once a weight is entered the "Next" button in the bottom right-hand corner will appear. After you verify that the weight has been entered correctly continue to the next screen to begin the measurement.

Enter Weight

Please use the keyboard or mouse to enter your weight.

lbs

7 8 9

4 5 6

1 2 3

0

Backspace

Exit

Figure 9

IMPORTANT

Detailed instructions for ensuring accurate measurements are enclosed in the instrument travel briefcase. This manual will not detail the specific technique for ensuring accurate measurements. Review the "Taking Repeatable, Accurate Measurements" document before taking measurements.

As is noted in noted in the highlighted box above, this manual will not go over the specifics of ensuring accurate measurements. Review the other enclosed documentation for specifics on the measurement process. If there are any questions regarding the measurement process contact Futrex at info@futrex.com or by calling 301-791-9220.

The screen in Figure 10 shown below will appear after the weight has been entered. As is noted in the on-screen instructions, place the light wand on the dominant arm and press the button on the light wand when you are ready. The software will read in the first measurement and request the operator to perform a second measurement on the same measurement site as is shown in Figure 11 below.

First Measurement Screen

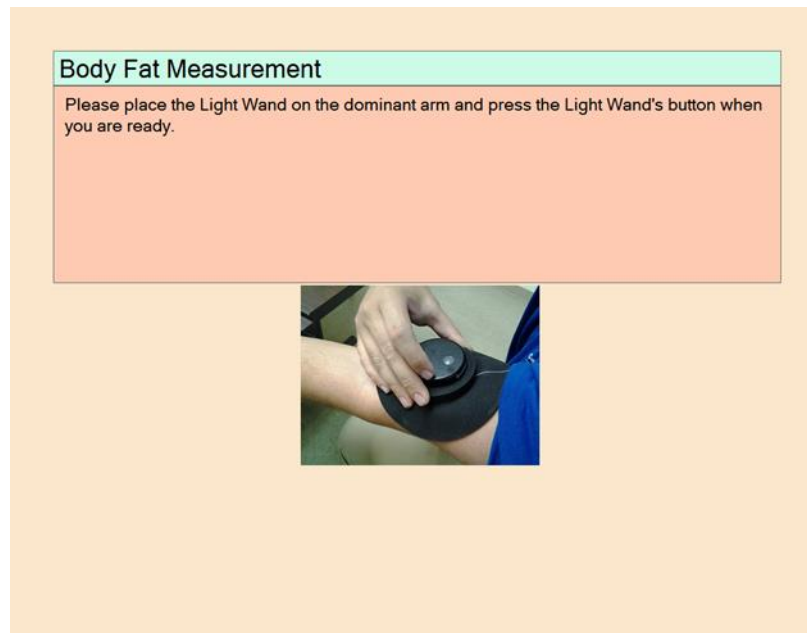


Figure 10

Second Measurement Screen



Figure 11

After the measurement is completed the software will display a message of "Generating Results". When the results pages have been compiled they will display within the software. A sample results printout is shown over the next two pages in Figure 12 and Figure 13.

 www.futrex.com info@futrex.com	Your Body Composition Measurements		
	GUEST -. GUEST <hr/> Name		May-10-2017 <hr/> Date
23 <hr/> Age	Female <hr/> Gender	5' 7" <hr/> Height	
<p>Percent Body Fat = 23.1% - Body fat provides a reservoir of energy for the body. In addition to storing energy, a minimum amount of body fat is needed to protect the organs from bruising and to avoid certain viruses and other infections. High percent body fat significantly increases the risk of diabetes, heart attacks, strokes, and certain forms of cancer. Percent body fat has been proven to be a separate, independent health risk.</p>			
<p>Body Weight = 180.0 lbs. - The weight of a person is an independent health risk according to the N.I.H. Framingham studies. Thus, considerable research has been performed on the relationship of a person's weight to life span, a number of aging diseases, and quality of life. If a person has significant excess weight combined with excess body fat, the risks are compounded.</p>			
<p>Body Mass Index (BMI) = 28.2 - BMI is calculated by dividing a person's weight by their height squared. It was invented in Belgium in the mid-1800s, before there was any practical method of measuring percent body fat. Because of its simplicity, it is still commonly used by doctors even though validity is poor for athletes, children, the elderly, and other groups.</p>			
<p>Lean Body Mass (LBM) = 138.4 lbs. - LBM has been described as an index that is superior to total body weight. Also, body fat is less relevant when considering metabolism. For prescribing proper levels of medications and for assessing metabolic disorders, LBM is the better indicator.</p>			
<p>Body Water = 58.0%; 47.4 liters - Water is the largest component of the human body, and one of the most vital, as it helps the body flush out toxins and maintain proper organ function. The percentage of water in the human body is between 45 to 70 percent. Falling under this percentage will result in dehydration. Conversely, exceeding this level can result in intoxication.</p>			
<p>Basal Metabolic Rate (BMR) = 1632 kCal - Basal Metabolic Rate is the amount of energy expended daily by humans and other animals at rest. Rest is defined as being awake but totally relaxed and not performing any work. The release and use of energy in this state are sufficient only for the functioning of the vital organs; the heart, lungs, nervous system, kidneys, liver, intestine, sex organs, muscles, and skin.</p>			

Figure 12

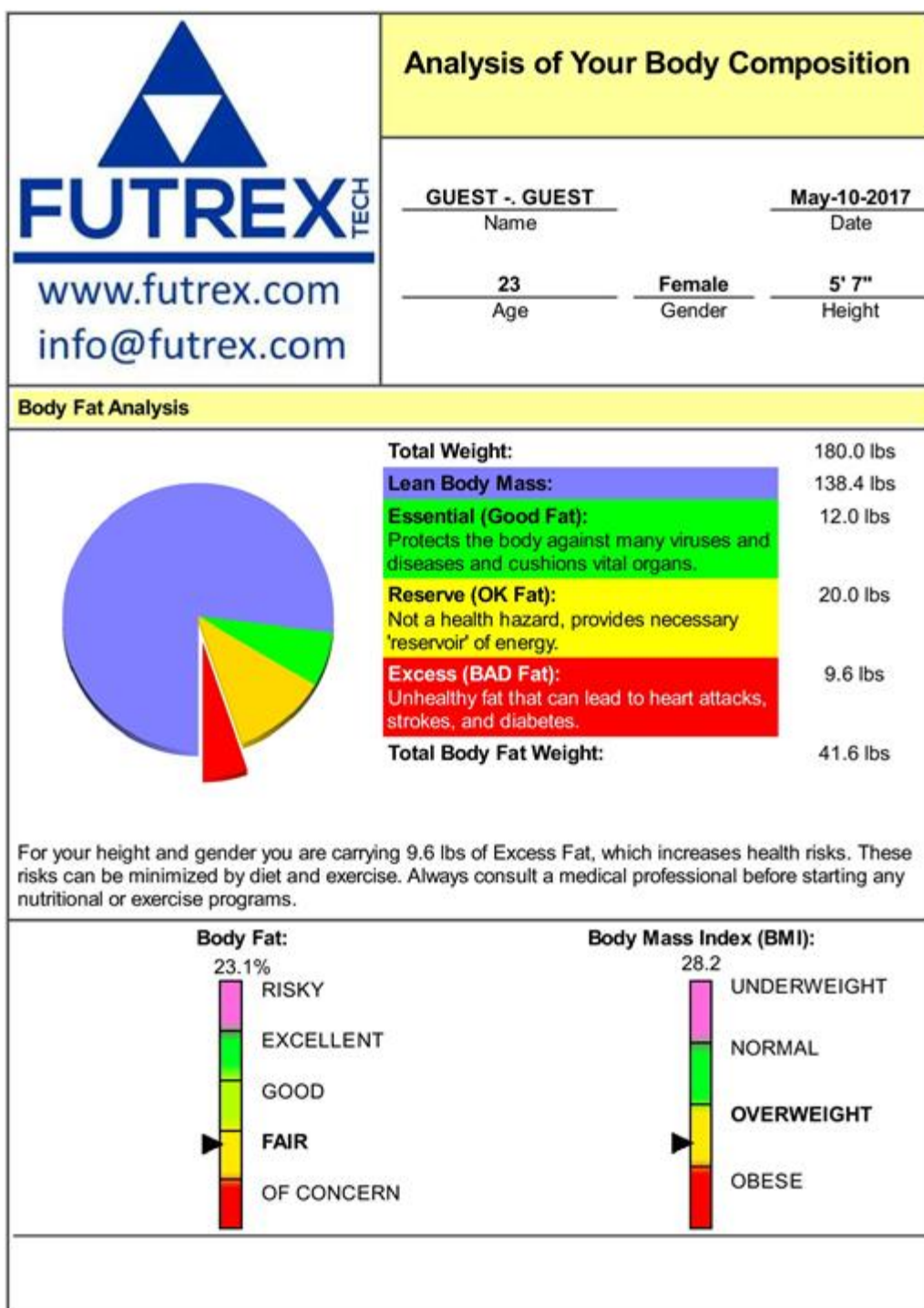


Figure 13

Within the software all the results will be shown as is seen below in Figure 14.

The screenshot displays the 'Your Body Composition Measurements' screen. On the left is the FUTREX TECH logo with the website 'www.futrex.com' and email 'info@futrex.com'. The main area contains a table with the following data:

BEC2 FWO172		Aug-28-2015
Name		Date
26	Male	5' 10"
Age	Gender	Height

Below the table, there are two paragraphs of text:

Percent Body Fat = 12.6% - Body fat provides a reservoir of energy for the body. In addition to storing energy, a minimum amount of body fat is needed to protect the organs from bruising and to avoid certain viruses and other infections. High percent body fat significantly increases the risk of diabetes, heart attacks, strokes, and certain forms of cancer. Percent body fat has been proven to be a separate, independent health risk.

Body Weight = 170.0 lbs. - The weight of a person is an independent health risk according to the N.I.H. Framingham studies. Thus, a person's weight to life span, a number of years, is a significant excess weight combined with excess body fat, the risks are compounded.

At the bottom are three buttons: 'Exit', 'Print', and 'Email'.

Figure 14

You will be able to scroll through the results pages by using the touch display on the FUTREX-6150. As previously mentioned, One-Time Measurements can be E-Mailed and printed (**NOTE:** see Important Note on the next page before attempting to E-Mail or print the results). When the E-Mail button is selected, the following screen will appear:

The screenshot shows the email input screen. At the top, a green bar displays 'BEC2 FWO172'. Below it is a text box with the instruction: 'Type in an email address and click submit. Please remember to add results@futrex.com to your email contact list to prevent it from being filtered as spam.' Below the text box is an empty input field. At the bottom is a numeric keypad with letters, a 'Backspace' button, and a 'Submit' button. The keypad includes buttons for numbers 1-0, letters Q-W, E-R, T-Y, U-I, O-P, #, (,), A-S, D-F, G-H, J-K, L, ~, !, &, +, Z-X, C-V, B-N, M, comma, period, @, -, _, and *. There are also buttons for '.COM', '.NET', ':', and ';'. At the bottom left is an 'Exit' button.

Figure 15

IMPORTANT

Instructions for connecting an external printer via USB to the FUTREX-6150 and connecting the FUTREX-6150 to a wireless network are covered in Pages 34-36 of this manual. Without having an external printer connected to the FUTREX-6150 you will not be able to print the full results report. The thermal printer only prints data collected, no descriptions or advice. Without connecting the FUTREX-6150 to a wireless network you will not be able to E-Mail results.

Enter the E-Mail address where the results should be sent in the box provided using the on-screen keyboard. The box will respond with a green “Sent!” message if the E-Mail was successfully sent. The results report will be sent from *results@futrex.com* and will be attached in a .pdf format. Once you have finished E-Mailing the results press the “Exit” button to return to the home screen of the software.

If there is a computer printer attached via USB to the FUTREX-6150 you will be able to print the results pages by pressing the “Print” button on the results page within the software. You can also print the results report via the thermal printer within the enclosure. If you decide to print the results the following screen (Figure 16) will appear:

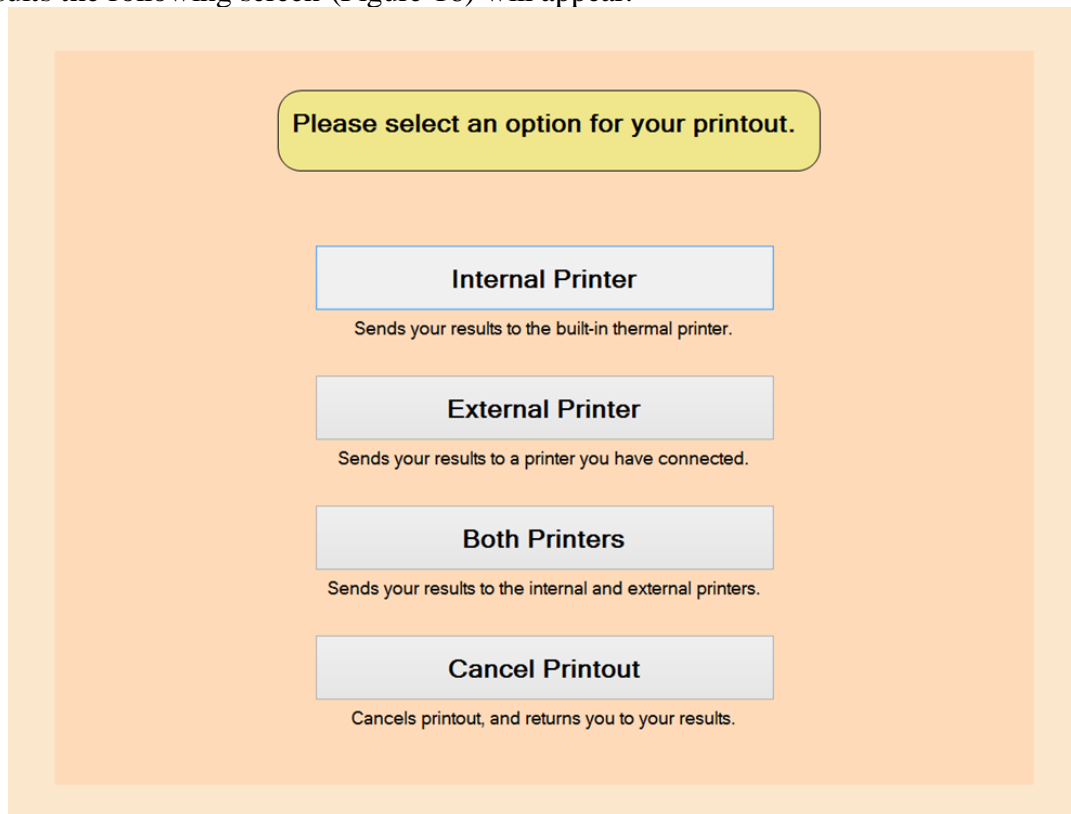


Figure 16

Ensure you have chosen the correct printer option. Once you have finished printing the results, the software automatically takes you back to your pdf results. This completes the One-Time Measurement process.

Using the Client Database

Clients can be entered into the client database so their results can be saved within the software and tracked over time. When the Client Database is selected from the home screen the software will prompt for the PIN to be entered. Again, the default PIN is 9999 and can be changed in the Software Options menu. Enter the PIN to access the both the client and archive database. An example client database is shown below in Figure 17:

Client Database					
First	Initial	Last	Gender	Age	Latest Measurement
ABBI		HURT	Female	58	8/6/2014 5:41 PM
ABIGAIL		OLORUNTOBA	Female	44	6/18/2015 11:36 ...
ABRAHAM		HEYWARD	Male	63	4/30/2015 9:08 ...
ADISAH		TASSERE	Female	53	6/30/2015 12:24 ...
AIMEE		WINGFIELD	Female	47	5/6/2014 8:17 AM
ALANNA		MCEACHIN	Female	40	5/21/2014 4:08 ...
ALBA		HORACIO	Female	47	11/3/2015 11:36 ...
ALBERTA		ALLEN	Female	70	11/19/2015 10:1...
ALETTA		SPENCE	Female	43	7/29/2014 6:22 ...
ALEXANDRIA		CHILDS	Female	67	5/12/2014 11:23 ...
ALEXIS		PATTERSON	Female	24	8/10/2015 11:50 ...
ALICIA	D	BANKS	Female	52	6/25/2015 3:24 ...
ALICIA		SOTO	Female	33	9/9/2014 3:36 PM
ALISA		GROSS	Female	33	12/29/2014 5:35 ...
ALLEGRA		MANIGAULT	Female	46	6/10/2014 9:15 ...
ALLEN		CASSTEVENS	Male	40	11/4/2014 8:35 ...
ALLYSSA		FARRIS	Female	28	7/1/2015 9:23 AM
ALMA		ABERCROMBIE	Female	72	6/24/2014 4:15 ...
ALMITA	S	RAYFORD	Female	50	10/27/2015 10:5...
ALTHELENE		TABLE	Female	67	12/15/2015 11:2...
ALTON		MCLENDON	Male	58	7/7/2014 9:22 AM
AMANDA		HEBERT	Female	31	10/26/2015 10:5...

Archive Client

Archive Database

Exit

Create

Delete

Open

Search

Press SEARCH to pop up text box. Press SEARCH again to search for text entered into the search box.

Figure 17

Within the client database clients can be created, deleted, searched for, and opened to view previous measurements. You can also sort the client database by name, gender, age, or date of the last measurement taken by pressing the organizing menus above the top client.

To enter a new client into the client database, press the “create” button that is circled in Figure 17 above.

Create a new client by entering their information into the software on the screen shown below (Figure 18). The first and the last name, as well as a middle initial, are required.

User Information

Enter in all information. Please also select a gender.

Name

First	Initial	Last

1 2 3 4 5 6 7 8 9 0 Backspace

Q W E R T Y U I O P # < TAB

A S D F G H J K L ! &

Z X C V B N M , . - ()

Space

Exit NEXT

Figure 18

Enter the information in the format as seen above. Once you have verified that the information is entered correctly press the “Next” button to continue to add in the rest of your information. The touchscreen keyboard changes for every value of information that needs entered. The final “OK” button will add the client to the client database. Please double check your information before pressing “OK,” once it is entered into the software, it cannot be edited. The software will automatically add the client to the database and return to the main Client Database screen shown in Figure 17 and 18.

The software has the ability to separate currently active clients with those who have not taken a measurement recently. Archived clients and their information are still part of the software, merely in a separate database. Clients can easily be moved from the Archive Database to the Client Database at the customers’ discretion within the software. However, to delete or take new measurements with any client, they must be a part of the Client Database. Figures 19-21 illustrate this process below.

Client Database

First	Initial	Last	Gender	Age	Latest Measurement
ABBI		HURT	Female	58	8/6/2014 5:41 PM
ABIGAIL					11:36 ...
ABRAHAM					9:08 ...
ADISAH					12:24 ...
AIMEE					:17 AM
ALANNA					4:08 ...
ALBA					11:36 ...
ALBERTA					5 10:1...
ALETTA					6:22 ...
ALEXANDER					11:23 ...
ALEXIS					11:50 ...
ALICIA					3:24 ...
ALICIA					:36 PM
ALISA					4 5:35 ...
ALLEGRA					9:15 ...
ALLEN					8:35 ...
ALLYSSA					:23 AM
ALMA					4:15 ...
ALMITA					5 10:5...
ALTHELE					5 11:2...
ALTON					:22 AM
AMANDA					5 10:5...

Archive Client

Are you sure you want to archive ABBI . HURT? They will be moved to a separate database and can be restored at any time.

Yes

No

Archive Client

Archive Database

Exit

Create

Delete

Open

Search

Press SEARCH to pop up text box. Press SEARCH again to search for text entered into the search box.

Figure 19

Archive Database

First	Initial	Last	Gender	Age	Latest Measurement
JOYCE		MITCHELL	Female	64	9/16/2014 6:20 ...
ALANNA		MCEACHIN	Female	40	5/21/2014 4:08 ...
ALTON		MCLENDON	Male	57	7/7/2014 9:22 AM
AMANDA		MITCHELL	Female	55	6/23/2014 10:27 ...
AMETRESS		SANDIFER	Female	43	2/23/2015 3:12 ...
ANDREA		MILLER	Female	54	7/9/2014 3:59 PM
ANGELA		MATTHEWS	Female	45	10/30/2014 6:08 ...
ANGELA		MCTIER	Female	46	6/5/2014 11:23 ...
ANGELA		SMITH	Female	60	7/24/2014 9:17 ...
ANN		SHERROD	Female	68	11/24/2014 10:4...
ANTIONETTE		SMEDLEY	Female	55	10/6/2015 10:03 ...
ARLINDA		MATHIS	Female	67	4/29/2015 10:13 ...
ASHLEY		SHY	Female	29	7/22/2014 5:23 ...
AYESHA		MILLER	Female	39	7/28/2014 3:29 ...
B		JR	Female	18	1/7/2014 9:31 AM
BARBARA		MCGUIRE	Female	75	10/23/2014 11:3...
BAYONNE		SHAYNA	Female	44	8/13/2015 11:24 ...
BERESFORD		MCFARLANE	Male	68	6/18/2015 7:08 ...
BIONCA		SIMS	Female	35	8/12/2015 10:42 ...
BJ		MCKENZIE	Female	53	8/12/2014 12:17 ...
BRANDON		MCKINNIE	Male	43	6/25/2015 2:57 ...
BRENDA		MCADAMS	Female	69	10/2/2014 8:41 ...
BRUCE		MAYS	Male	50	10/20/2015 10:3...
CANDACE		SIMS	Female	49	12/7/2015 9:46 ...

Exit

Delete

Restore Client

Client Database

To view measurements or print results of a client within this database, please first move them to the Client Database. You can do so by clicking the RESTORE CLIENT button above.

Figure 20

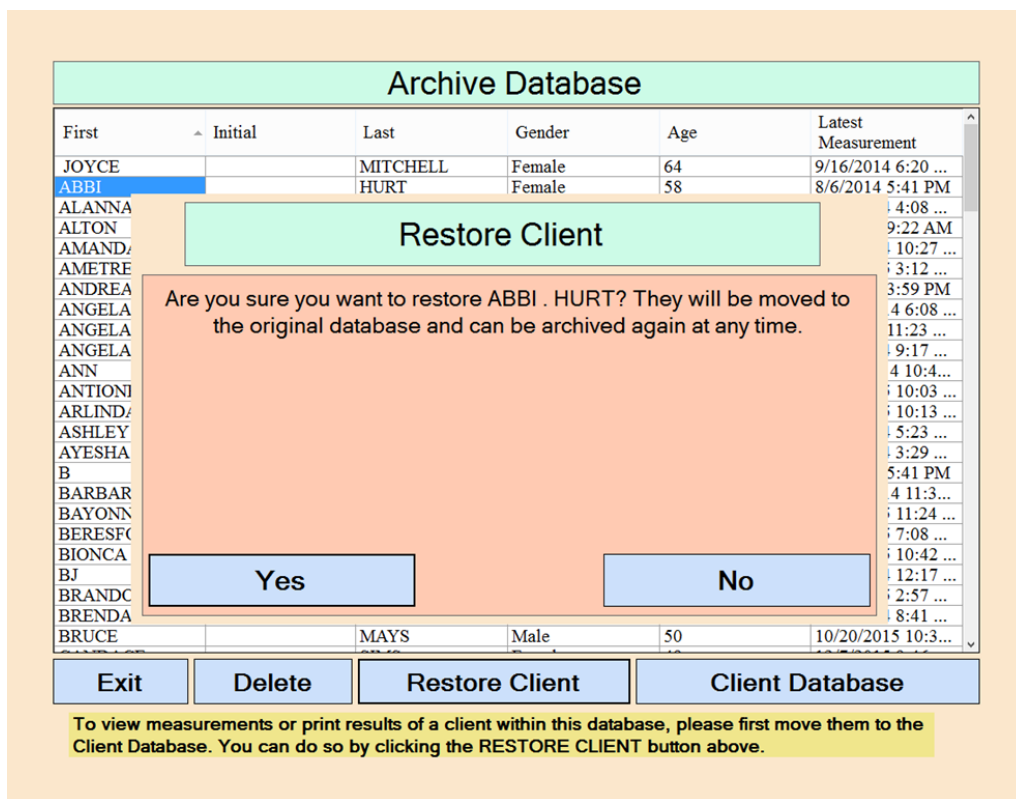


Figure 21

To perform a body composition measurement for a client in the database, select a client by double clicking on their name in the database or by highlighting the entry in the client database and then press the “Open” button at the bottom of the software. Once a client is selected the following screen will show in the software (Figure 22, below).

BRETT J. ROSENTHAL							
Date of Birth			Gender		Height		
9	26	1990	Male		5'	10"	

ID	Weight (lbs)	Body Fat %	Hydration %	Date	Body Mass Index	Lean Body Mass (lbs)	Basal Metabolic Rate (kCal)
0	200.0	22.2	58.0	9/23/2013 ...	28.7	155.6	1,735.4
1	200.0	21.7	58.3	11/11/2013...	28.7	156.6	1,735.4
2	200.0	21.6	58.4	11/19/2013...	28.7	156.8	1,735.2
3	208.0	22.5	57.8	11/22/2013...	29.9	161.2	1,764.6
4	196.0	19.7	59.6	3/7/2014 1...	28.1	157.4	1,720.6
5	196.0	19.2	59.9	3/7/2014 1...	28.1	158.4	1,720.6
6	175.0	15.9	61.7	5/3/2014 9:...	25.1	147.2	1,639.7
7	175.0	16.7	61.2	5/3/2014 9:...	25.1	145.8	1,639.7
8	165.0	15.5	62.0	7/8/2014 9:...	23.7	139.4	1,599.2
9	165.0	13.6	63.3	7/24/2014 ...	23.7	142.6	1,599.2
10	165.0	13.2	63.6	2/13/2015 ...	23.7	143.2	1,599.2
11	165.0	10.6	65.1	4/24/2015 ...	23.7	147.5	1,599.2
12	170.0	13.3	63.5	8/21/2015 ...	24.4	147.4	1,619.6
13	170.0	12.9	63.8	8/21/2015 ...	24.4	148.1	1,619.6
14	170.0	12.9	63.8	8/21/2015 ...	24.4	148.1	1,619.6
15	235.0	21.6	59.0	8/10/2016 ...	33.7	184.2	1,858.5

Exit	Graphs	Open	Delete	Take Measurement
------	--------	------	--------	------------------

Figure 22

If previous measurements have been taken in the software they will be organized by ID number, with the oldest measurement appear first. To take the first measurement for a client select the “Take Measurement” button circled above. The software will then prompt for the current weight and follow the same measurement process outlined in the “One-Time Measurement” instructions previously outlined.

Enter Weight	
Please use the keyboard or mouse to enter your weight.	

	lbs
--	-----

7	8	9
4	5	6
1	2	3
0		
Backspace		

Exit

Figure 20

After a weight has been entered the “Next” button will appear. Press the next button to continue and then use the light wand to complete the measurement process.

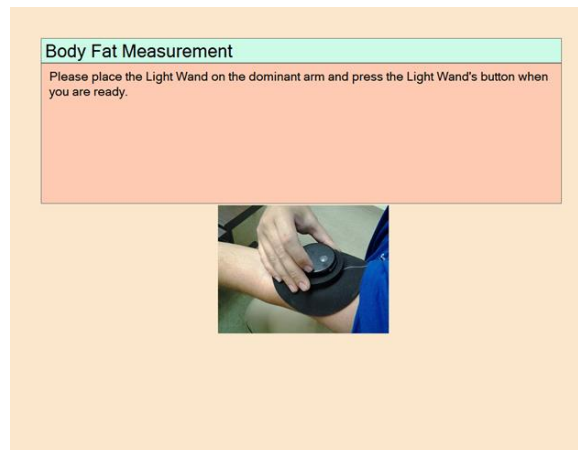


Figure 21



Figure 22

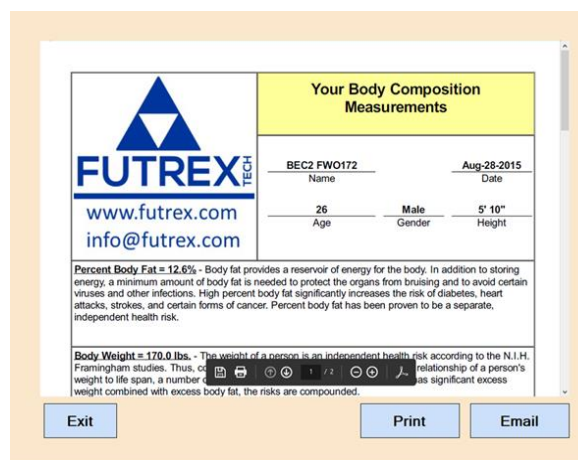


Figure 23

Once the results report has been generated you may print or E-Mail the results in the same manner that was outlined in the One-Time Measurement section (Pages 13 & 21). Exit the results once the measurement has been printed and/or E-Mailed using the Exit button to return to the home screen.

Tracking Results over Time

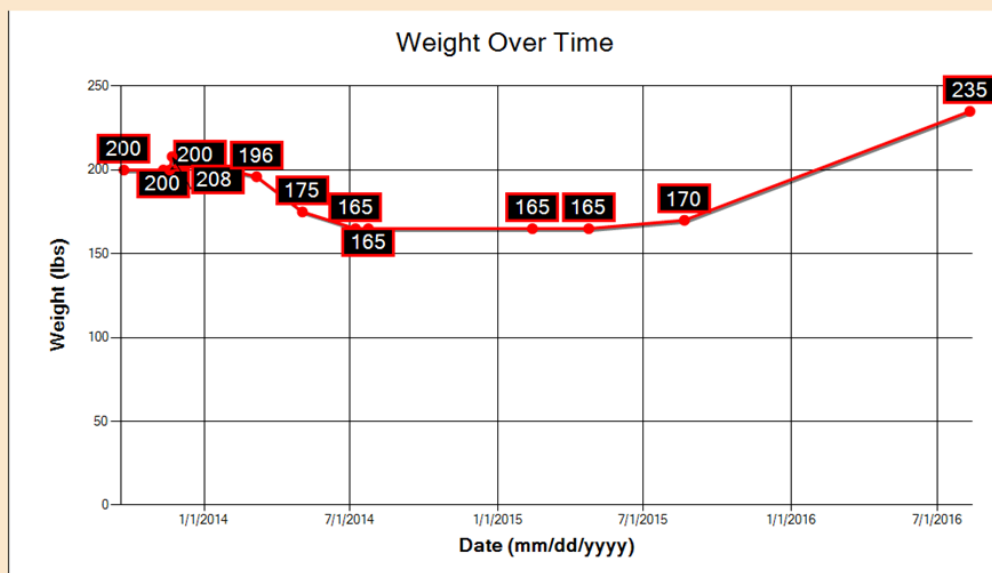
The Futrex Connect software tracks the results of clients that are entered in the client database over time. The data is displayed in graphs. To display these graphs, select a client from the client database as was previously outlined and click the “Graphs” button circled below:

BRETT J. ROSENTHAL							
Date of Birth			Gender		Height		
9	26	1990	Male		5'	10"	
ID	Weight (lbs)	Body Fat %	Hydration %	Date	Body Mass Index	Lean Body Mass (lbs)	Basal Metabolic Rate (kCal)
0	200.0	22.2	58.0	9/23/2013 ...	28.7	155.6	1,735.4
1	200.0	21.7	58.3	11/11/2013...	28.7	156.6	1,735.4
2	200.0	21.6	58.4	11/19/2013...	28.7	156.8	1,735.2
3	208.0	22.5	57.8	11/22/2013...	29.9	161.2	1,764.6
4	196.0	19.7	59.6	3/7/2014 1...	28.1	157.4	1,720.6
5	196.0	19.2	59.9	3/7/2014 1...	28.1	158.4	1,720.6
6	175.0	15.9	61.7	5/3/2014 9:...	25.1	147.2	1,639.7
7	175.0	16.7	61.2	5/3/2014 9:...	25.1	145.8	1,639.7
8	165.0	15.5	62.0	7/8/2014 9:...	23.7	139.4	1,599.2
9	165.0	13.6	63.3	7/24/2014 ...	23.7	142.6	1,599.2
10	165.0	13.2	63.6	2/13/2015 ...	23.7	143.2	1,599.2
11	165.0	10.6	65.1	4/24/2015 ...	23.7	147.5	1,599.2
12	170.0	13.3	63.5	8/21/2015 ...	24.4	147.4	1,619.6
13	170.0	12.9	63.8	8/21/2015 ...	24.4	148.1	1,619.6
14	170.0	12.9	63.8	8/21/2015 ...	24.4	148.1	1,619.6
15	235.0	21.6	59.0	8/10/2016 ...	33.7	184.2	1,858.5

Exit
Graphs
Open
Delete
Take Measurement

Figure 24

The graphs that are supplied within the software are shown on the following pages. These graphs are also available for E-Mail and printing.



View all graphs to see printing and emailing options.

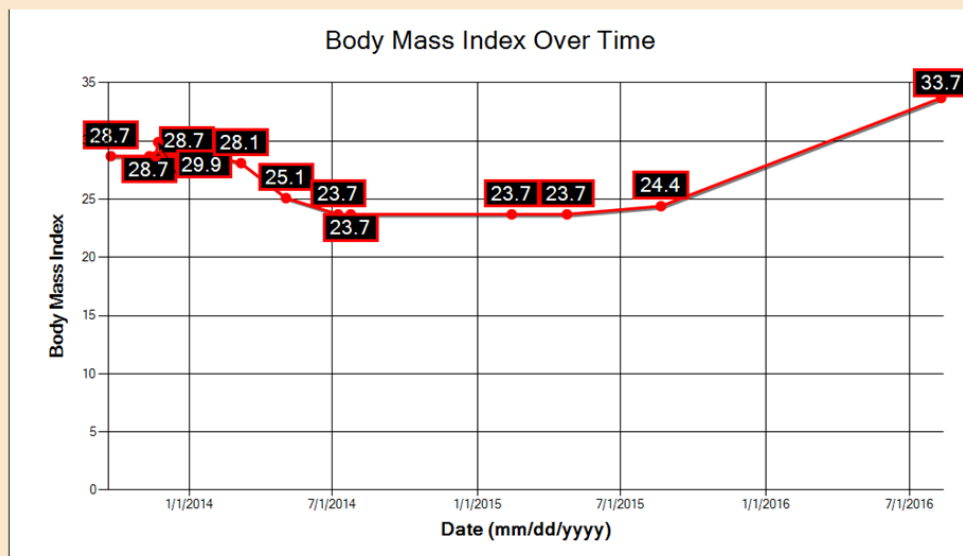
Exit

Previous
Graph

Weight

Next
Graph

Figure 28



View all graphs to see printing and emailing options.

Exit

Previous
Graph

Body Mass
Index

Next
Graph

Figure 29

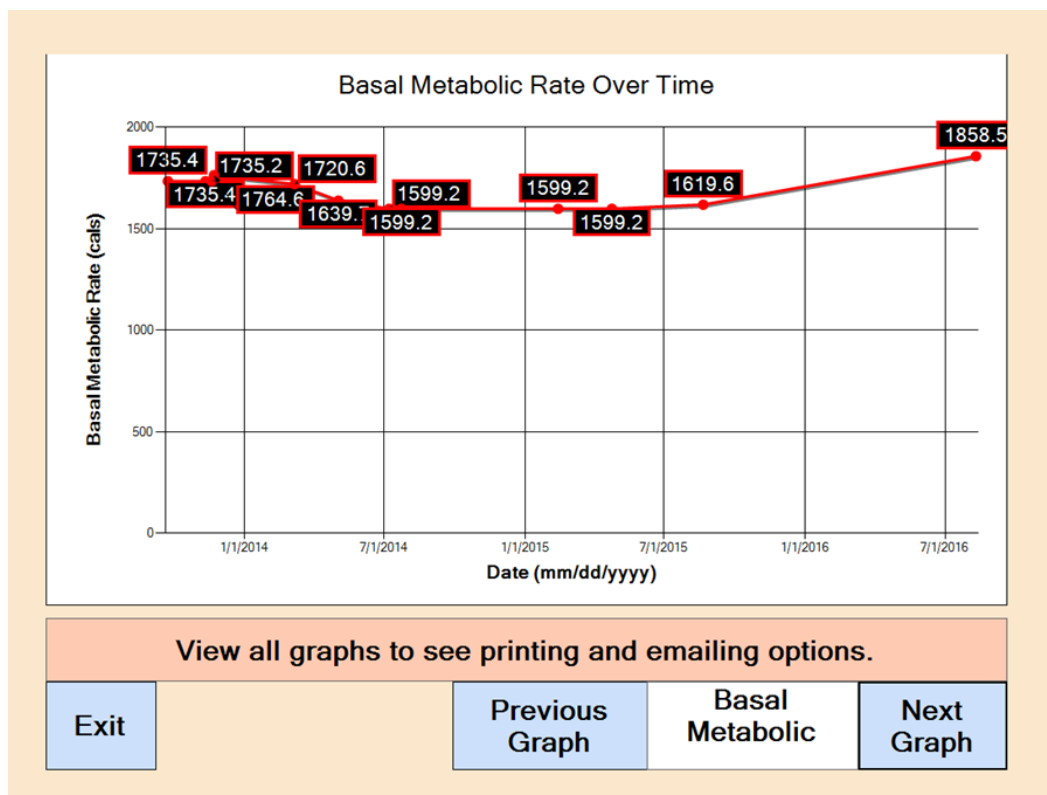


Figure 30

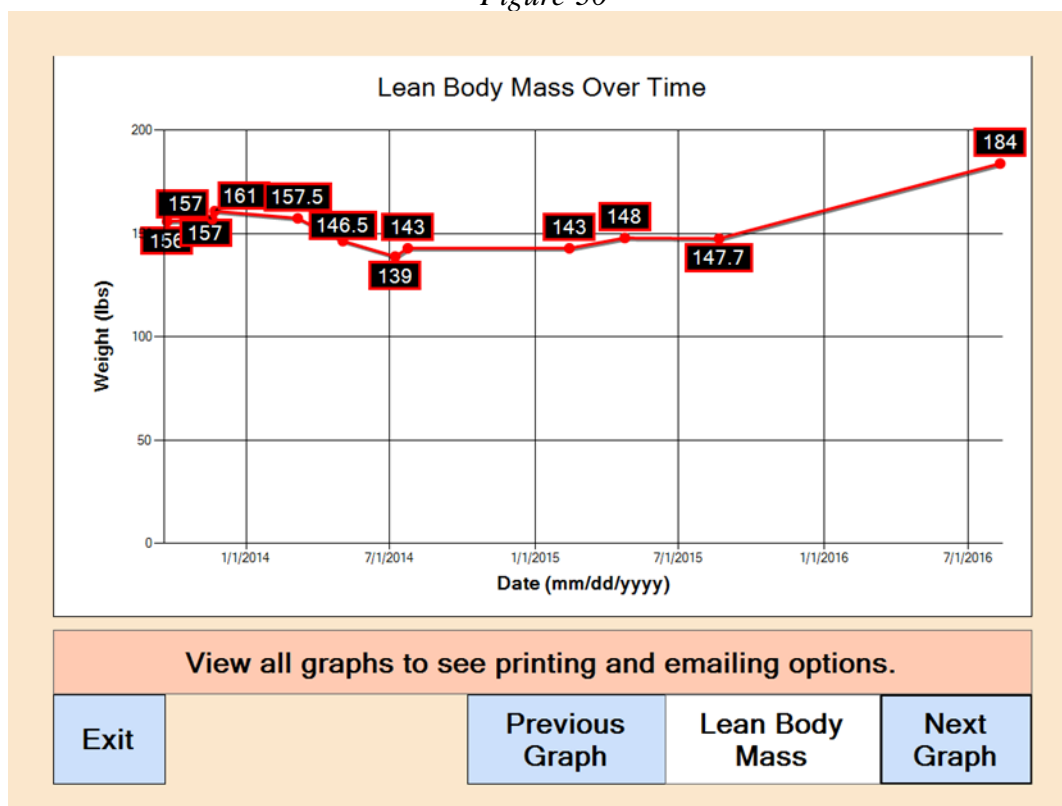


Figure 31

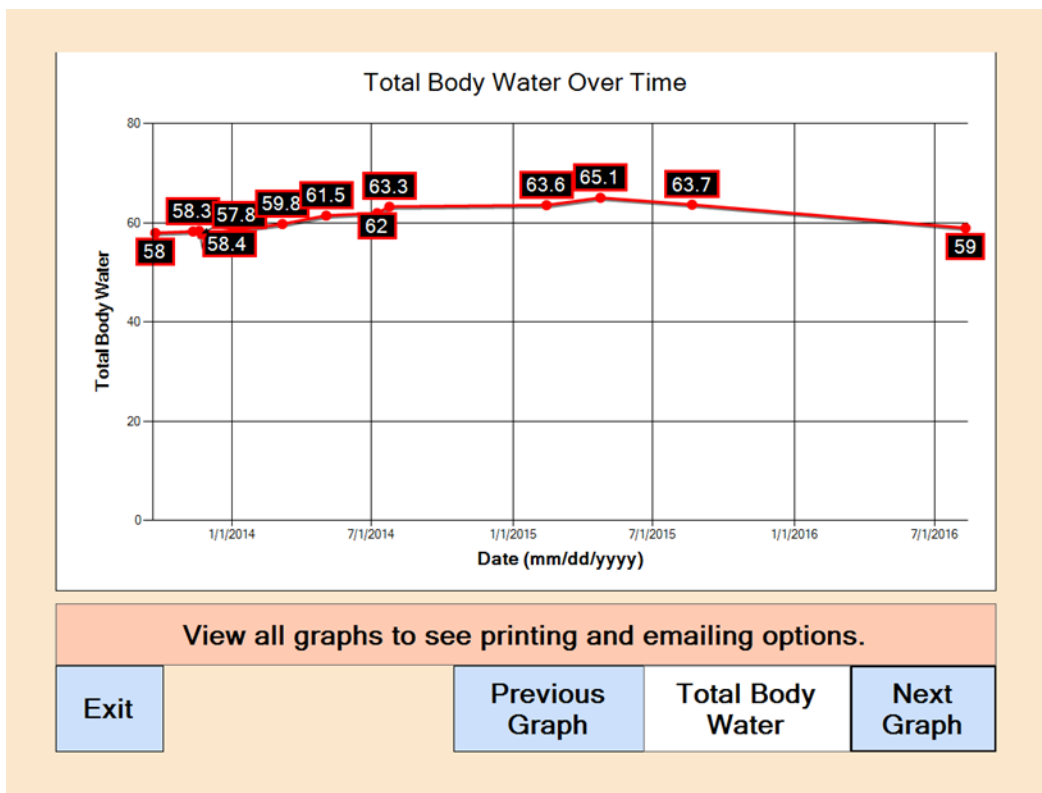


Figure 32

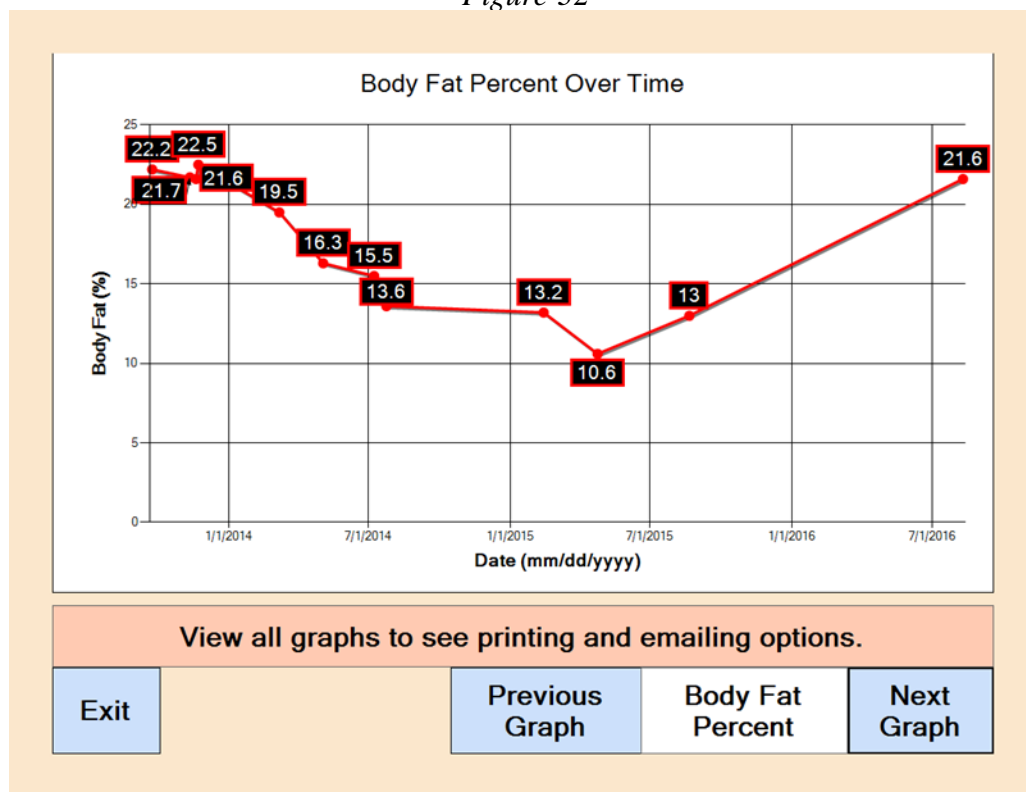
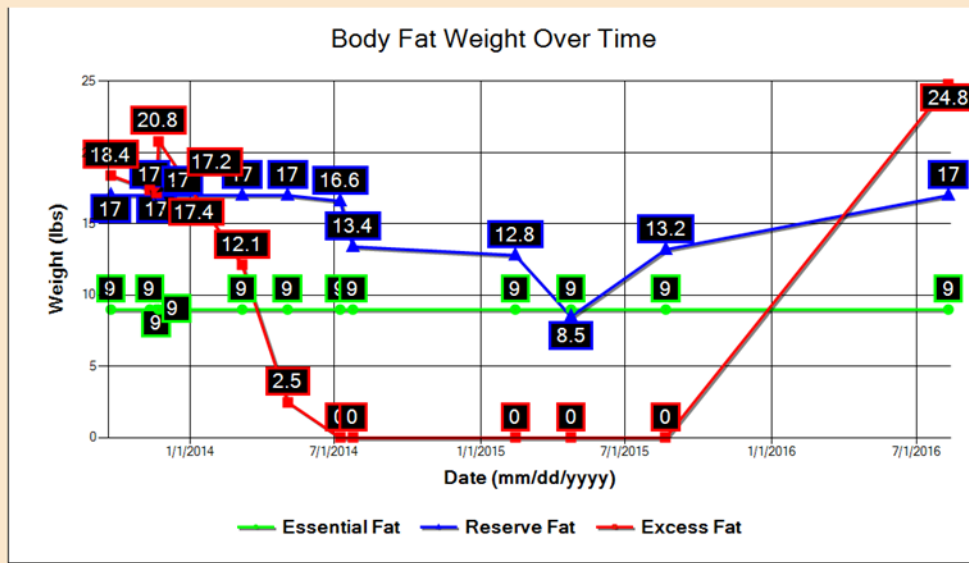


Figure 33



View all graphs to see printing and emailing options.

Exit

Email

Print

Previous
Graph

Body Fat
Weight

Next
Graph

Figure 34

BRETT J. ROSENTHAL

Type in an E-Mail address and click submit.
Please remember to add results@futrex.com to your
E-Mail contact list to prevent it from being filtered as
spam.

1

2

3

4

5

6

7

8

9

0

Backspace

Q

W

E

R

T

Y

U

I

O

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*

Space

.COM

.NET

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;

Exit

Submit

Figure 35

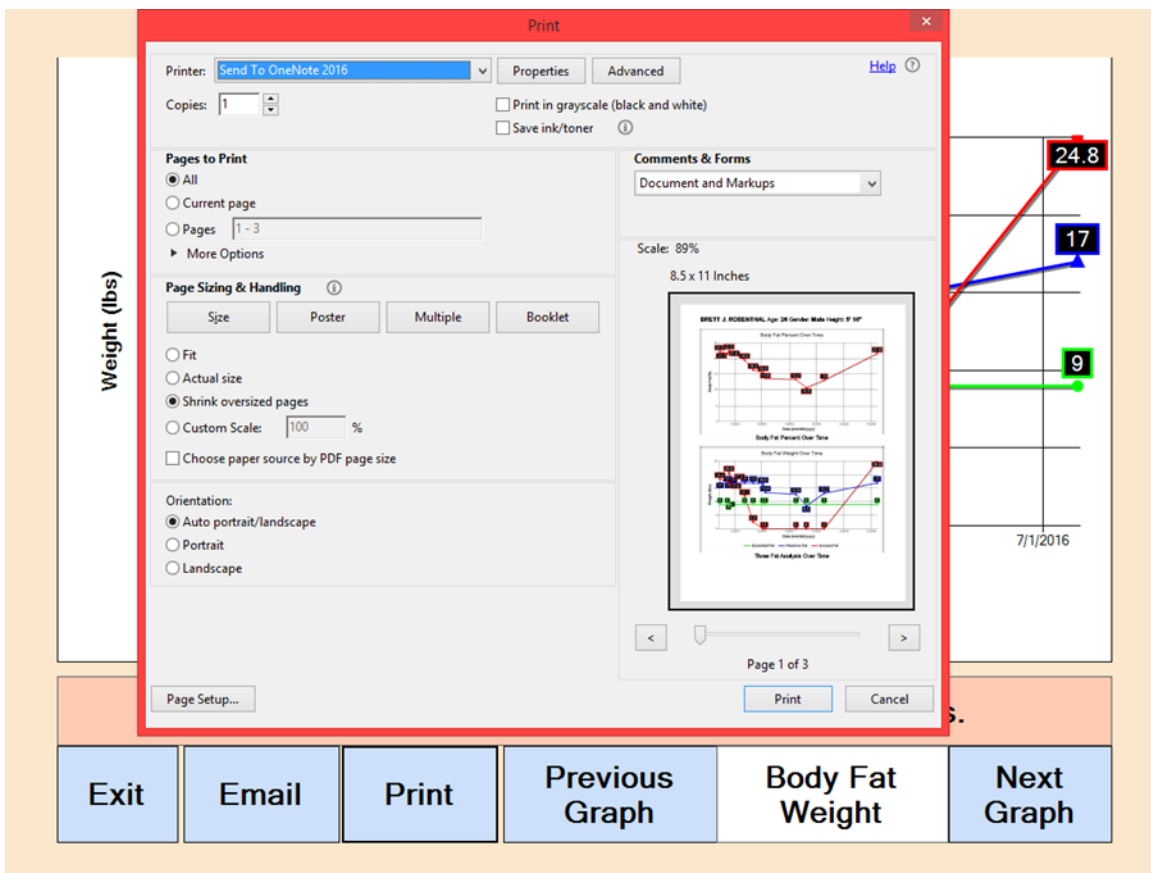


Figure 36

FUTREX-6150 Wi-Fi and Printer Setup

The FUTREX-6150 contains a Windows 8 based computer that runs the FUTREX-6150 software. To E-Mail the results the FUTREX-6150 will need to be connected to a wireless network. To print the results on an external printer the FUTREX-6150 will need to be connected to a printer.

IMPORTANT

If you wish to connect the FUTREX-6150 to both a wireless network and an external printer Futrex recommends setting up the Wi-Fi connection first. Windows 8 (and any newer Windows operating system) automatically searches for printer drivers if the device

Connecting the FUTREX-6150 to a Wireless Internet Network

To setup a wireless connection, first exit the Futrex Connect software by pressing the “Exit” button on the home screen of the software. You will be able to reopen the Futrex Connect software by either selecting the icon on the desktop of the computer or by restarting the FUTREX-6150.

Once you have exited the software use the touch input on the display to swipe in from the right edge of the screen and then tap “Settings” when the toolbar appears (circled below).



Figure 37

The settings tab will expand as is seen in Figure 39 on the next page. Select the icon that is circled in Figure 38 to proceed.



Figure 38

Once the icon circled above has been selected Windows will provide a list of the available wireless networks. Select the network that the FUTREX-6150 should be connected to and press “Connect”. An example of this can be seen in Figure 39 below. (**NOTE:** If the wireless network is password protected you will need to enter the password using the touch keyboard provided).

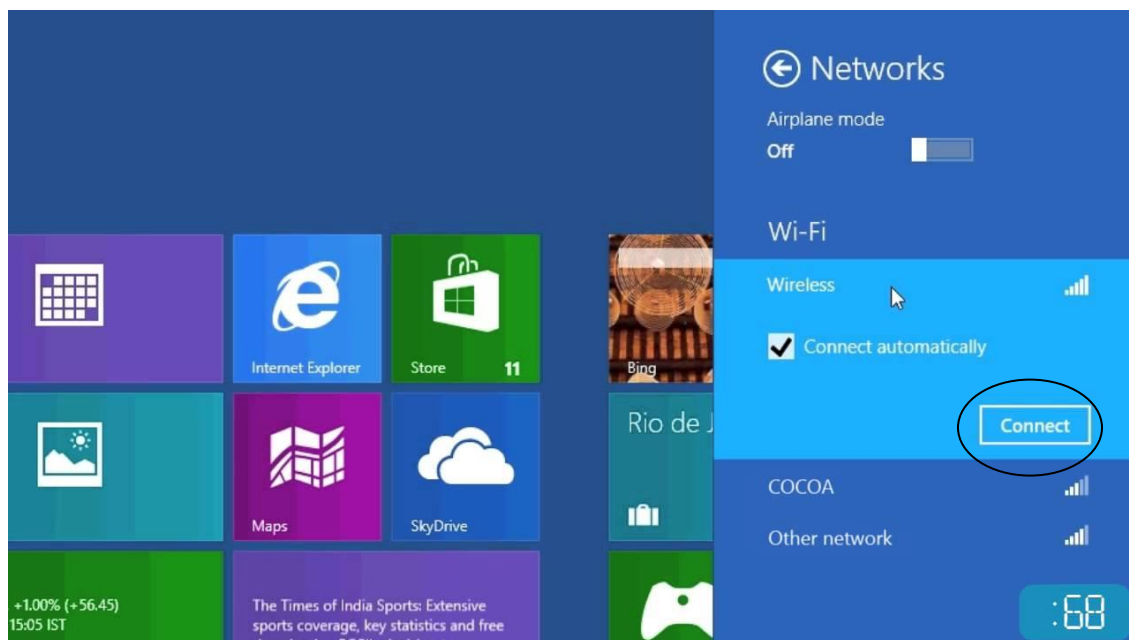


Figure 39

Windows will verify that the wireless connection has been established with a message stating “Connected”. To return to the Futrex Connect software, select the icon on the desktop.

Connecting the FUTREX-6150 to an External Printer

The FUTREX-6150 has a USB port available on the back of the instrument for connecting an external printer. It is circled below.



Figure 40

Connect the printer via the USB port on the FUTREX-6150. If the FUTREX-6150 is connected to a wireless network Windows 8 (and any newer Windows operating system) will automatically download the drivers for the printer and install them. Once the drivers have been installed there is no need for an internet connection for printing.

If the FUTREX-6150 is not connected to an internet network and printer setup is required, swipe in from the right side of the screen and select “Search” (circled below). Then use the on-screen keyboard to search for “Advanced Printer Setup”. Follow the on-screen instructions to complete the printer setup. **NOTE:** The FUTREX-6150 can also be connected to a wireless printer (Bluetooth or Wi-Fi) by using the “Advanced Printer Setup”. Follow the instructions provided on the display.

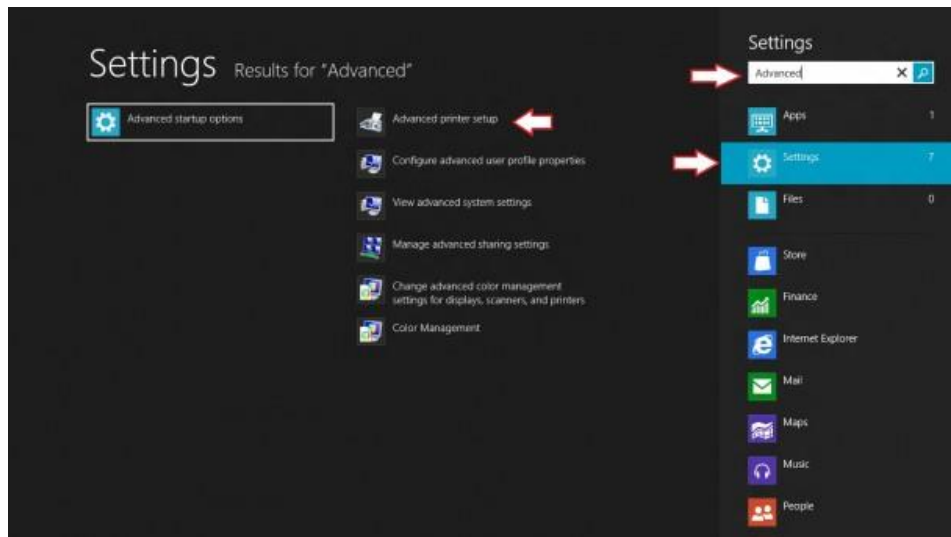


Figure 41

General Specifications

Body Composition Accuracy	Comparable to Hydrostatic Weighing, universally considered the “Gold Standard” in Body Composition Analysis.
Measurement Ranges	Percent Body Fat: 2.5% to 45%
Age Ranges	XL Model: 18 and up A/ZL Model: 5 and up
Body Composition Measurement Method	Near Infrared Interactome
Evaluation Time	Typically, less than one minute
Storage Temperature / Humidity Range:	Temperature: -4° F to 131° F (-20° C to 55° C) Humidity: 15% to 90% RH (non-condensing)
Operating Temperature / Humidity / Barometric Pressure Range	Temperature: 50° F to 104° F (10° C to 40° C) Humidity: 15% - 90% RH (non-condensing) Barometric Pressure: 105kPa to 80 kPa (790 – 600 mmHg)
Table-top Unit Dimensions	Height: 5 inches Width: 16 inches Depth: 11 inches Weight: approx. 5 lbs.
Power Source	Talentcell Rechargeable 6000 mAh Li-Ion Battery Pack
Operating System	Windows 8 (and any newer Windows operating system)
Touchscreen PC Specifications	<p>Display: 1920 x 1200 Touchscreen: Multi-Touch Capacitive Memory: 2 GB DDR3 RAM Storage: 32 GB eMMC Speakers: Integrated Battery Life: Up to 8 Hours</p> <p>Wireless Networking:</p> <ul style="list-style-type: none"> • Bluetooth: Class 1, Bluetooth 4.0 • Wi-Fi: 802.11a,b,g,n

Troubleshooting

Problem	Probable Cause(s)	Corrective Measures
The Green LED on the rear of the instrument is not on after plugging in the AC adapter to charge.	a) The AC cord is not plugged into a wall outlet. b) The AC adapter is not plugged into the AC cord	a) Connect the AC adapter to a grounded AC wall outlet. b) Ensure the AC adapter and AC cord are fully seated.
The FUTREX-6150 will not turn on.	The internal battery pack has been fully depleted.	Plug the AC adapter into the FUTREX-6150 to turn on the instrument. This will also charge the battery pack.
Error “DEVICE NOT FOUND” when beginning a measurement.	The light wand is not fully plugged into the FUTREX-6150.	Depress the tabs on the side of the light wand connector and attach it to the corresponding connector on the FUTREX-6150 enclosure.
The percent body fat results are not accurate.	a) The measurement was performed incorrectly. b) The light wand needs to be cleaned. c) There is a black tattoo on the measurement site. d) A zero adjust has not been performed recently.	a) Review the “Taking Repeatable, Accurate Measurements” document. b) Use an alcohol swab to gently clean the light wand. c) Take the measurement on the other bicep (if possible). d) Ensure that the probe is fully seated in the optical standard with the silver stripes aligned and perform a zero adjust in the “Software Settings” menu.
Unusually high body fat readings (40-50%) or IRED dark error.	a) The light wand was not fully seated in the optical standard during zero adjust. b) Light was let in to the probe during the measurement.	a) Ensure that the probe is fully seated in the optical standard with the silver stripes aligned and perform a zero adjust in the “Software Settings” menu. b) Always use the light shield to ensure no external light gets into the probe during the measurement.
The results pages will not print.	The printer that is being used is not set as the default printer.	Check the name of the printer that shows at the top of the print preview window. Select the appropriate printer or follow the instructions on Page 26 of this document for printer setup.
The results pages will not E-Mail.	The FUTREX-6150 has no internet connection.	Ensure that the internet connection is working and the FUTREX-6150 is connected to the correct network.

FCC Statement

Note:

POTENTIAL FOR RADIO/TELEVISION INTERFERENCE (for U.S.A. only)

This product has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. The product generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If the product does cause harmful interference to radio or television reception, which can be determined by turning the product on and off, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the product and the receiver.
- Connect the product into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

POTENTIAL FOR RADIO/TELEVISION INTERFERENCE (for Canada only)

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the interference-causing equipment standard entitled "Digital Apparatus", ICES-003 of the Canadian Department of Communications.

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301-791-9220, info@futrex.com