



## Styku S100 User Guide

V2.201808

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## Table of Contents

<b>COPYRIGHT INFORMATION .....</b>	<b>2</b>
<b>SOFTWARE TERMS AND CONDITIONS.....</b>	<b>2</b>
<b>SAFETY GUIDELINES .....</b>	<b>4</b>
IMPORTANT SAFETY PRECAUTIONS.....	4
WARNINGS REGARDING POWER ADAPTERS AND CABLES.....	4
CAUTION REGARDING TRIPPING AND FALLING HAZARDS.....	4
<b>GET TO KNOW YOUR STYKU S100.....</b>	<b>5</b>
1     SENSOR TOWER .....	6
2     ROTATING PLATFORM .....	6
3     NOTEBOOK COMPUTER.....	6
<b>SETTING UP YOUR STYKU S100.....</b>	<b>7</b>
CREATE YOUR STYKU ACCOUNT.....	7
• CONNECT NOTEBOOK COMPUTER TO AN AVAILABLE WIFI NETWORK <i>**INTERNET CONNECTION IS REQUIRED TO USE THE STYKU</i>	
<i>S100 SOFTWARE **</i> .....	7
ACTIVATE YOUR STYKU S100 SOFTWARE .....	7
• LAUNCH THE STYKU SOFTWARE ON THE NOTEBOOK BY DOUBLE-CLICKING THE STYKU ICON ON DESKTOP .....	7
• WHEN PROMPTED, ENTER YOUR STYKU ACCOUNT EMAIL AND PASSWORD AND CONTINUE .....	7
POSITION THE SENSOR TOWER AND ROTATING PLATFORM.....	7
IMPORTANT LOCATION GUIDELINES .....	8
CONNECT THE SENSOR TOWER .....	9
CONNECT THE ROTATING PLATFORM .....	10
<b>PERFORM YOUR FIRST STYKU BODY SCAN .....</b>	<b>16</b>
LAUNCH THE SOFTWARE AND PRESS THE SCAN BUTTON.....	16
CREATE A CUSTOMER PROFILE .....	11
REVIEW SCANNING INSTRUCTIONS .....	16
FRAME THE SUBJECT IN THE SENSOR VIEW AND START SCANNING .....	17
REVIEW THE SCAN AND SAVE OR DELETE IT.....	19
SCAN AGAIN OR EXIT SCANNING.....	20
<b>VALIDATE THE SCANNER RESULTS .....</b>	<b>20</b>
SCAN YOUR SUBJECT MULTIPLE TIMES.....	20
LOAD ALL OF THE SCANS INTO STYKU STUDIO.....	20
DISPLAY MEASUREMENT PRECISION RESULTS .....	21
<b>TROUBLESHOOTING TIPS.....</b>	<b>23</b>
<b>WARRANTY INFORMATION .....</b>	<b>24</b>
<b>CONTACT US.....</b>	<b>24</b>
BY MAIL:.....	24
BY PHONE:.....	24
BY EMAIL:.....	24
<b>REGULATORY INFORMATION .....</b>	<b>25</b>
STYKU S100.....	25
SENSOR TOWER.....	25
ROTATING PLATFORM.....	25
NOTEBOOK COMPUTER.....	25

## Safety Guidelines

### Important Safety Precautions

- Keep components and power cables away from water.
- Keep components and cables out of reach of children under 12 years old.
- The product should only be used in environments with ambient temperatures between 5°C (41°F) and 35°C (95°F).
- Electrocution Hazard: Do not use damaged power cords, accessories and other peripherals with your product.
- Falling Hazard: Do not place the platform or sensor tower on uneven or unstable surfaces.
- Take care while stepping on or off the platform to avoid tripping.
- Never step on or off of the platform while it is in motion.
- Take care to cover and contain the cables to avoid tripping or breaking connectors.
- Follow the included instructions for proper use of the product, and never stand on the platform in an unsupported way.

### Warnings Regarding Power Adapters and Cables

- Failure to take the following precautions can result in serious injury or death from electric shock, fire or damage to your product.
- Use only the power supply units and AC power cords that came with your product.
- Confirm that your electrical outlet provides the type of power indicated on the power supply units (Voltage (V) and frequency (Hz)). If you are not sure of the type of power supplied to your location, consult a qualified electrician.
- Do not use non-standard power sources, such as generators or inverters. Use only AC power provided by a standard wall outlet.
- Ensure that your wall outlet, extension cord, power strip or other electrical receptacle is not overloaded. Confirm that they are rated to handle the total current (in amps (A)) drawn by the power supply units and any other devices that are on the same circuit.

### Caution Regarding Tripping and Falling Hazards

- To reduce tripping or entanglement hazards, arrange any cables or power cords so that people are not likely to trip over them or pull them as they walk through the area. Do not allow children to play with cables and power cords.
- Always use your product on level, even surfaces to avoid falling or tripping hazards. Take care when stepping on and off of the platform.

**Please review the additional safety information for the sensor and notebook computer in the product guides included with your Styku S100 hardware.**

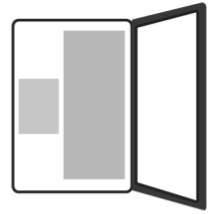
## Get to know your Styku S100

Top View

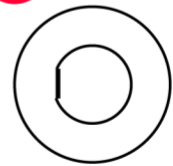
2



3

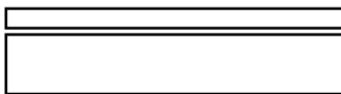


1



Side View

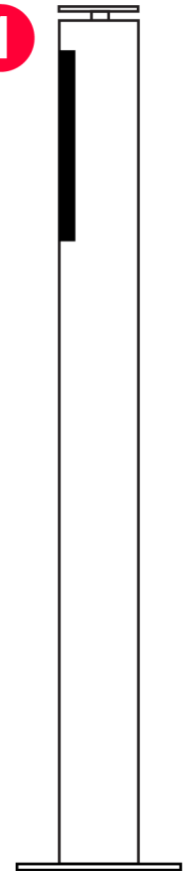
2



3



1



## **1 Sensor Tower**

The sensor tower is an aluminum stand containing a high resolution USB 3.0 3D camera that is used to capture the body in 3D. It connects to a notebook computer via USB 3.0 SuperSpeed cable (provided). It weighs approximately 13 lbs (6 kg).

## **2 Rotating Platform**

The rotating platform turns the body while data is being captured so that the sensor can see the body from all angles. It connects to a notebook computer via USB 2.0 cable (provided). The platform weighs approximately 23 lbs (10.5 kg) and can support a max load of 550 lbs (250kg). A full rotation takes approximately 30-40 seconds.

## **3 Notebook Computer**

A notebook computer is included. The notebook includes a powerful Intel processor and a gaming quality graphics card capable of processing the captured body data to create 3D body scans. The Styku Studio software can be downloaded via Styku's Client Portal, at <https://app.styku.com>.

## Setting Up Your Styku S100

### Create Your Styku Account

- **Connect notebook computer** to an available WiFi Network  
*\*\*Internet connection is required to use the Styku S100 Software\*\**

Use the Windows network connection tool to connect the notebook computer to an available WiFi network. An internet connection is required to use the Styku S100 software.

- **Double-click the “How to use Styku” link** on the desktop.  
OR  
Visit <https://app.styku.com> from a web-enabled computer

The included notebook computer comes pre-installed with a link to setup instructions for the Styku S100. Press the “How to use Styku” link on the desktop to go to Styku’s website. Alternatively, you can visit Styku’s website at <https://app.styku.com> from a web-enabled computer.

- On Styku’s website, **click the “Sign up Now” link** to create Styku User Account- this will allow you to activate your Styku S100 software and view any additional setup instructions

On Styku’s website, Press the “Sign up now” link to create your Styku account. Once you have an account, you will be able to activate your Styku S100 software and view additional setup instructions.

### Activate your Styku S100 Software

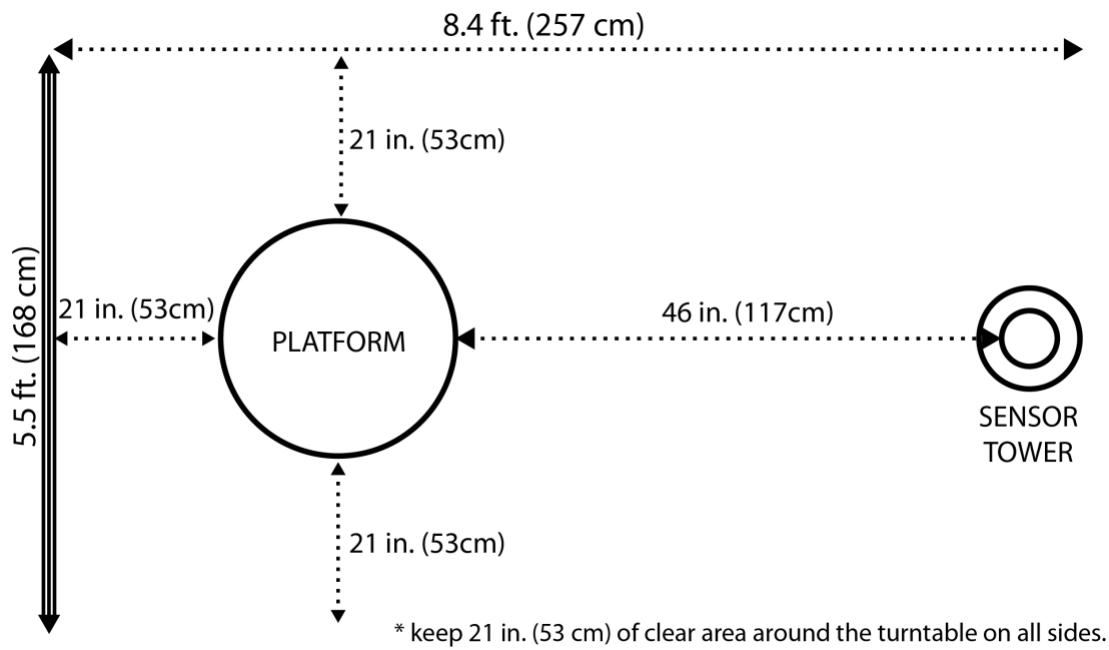
- Launch the Styku software on the notebook by **double-clicking the Styku icon** on desktop
- When prompted, enter your **Styku Account email and password** and continue

Launch the Styku software on the notebook computer by double-pressing the Styku icon on the desktop. You will see a window appear asking for your email address and password. Enter the email and password you used to create your Styku account to activate the software and continue.

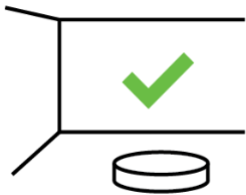
### Position the sensor tower and rotating platform

**Note:** You can view a video of the hardware setup process by visiting the Styku website and choosing the Support\Setup link, at <https://app.styku.com> .

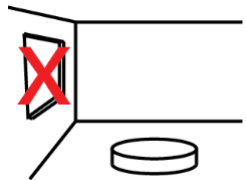
The rotating platform should be placed in front of the sensor tower, with 21 inches (53 cm) of empty space around it on all sides. The front of the turntable should be about 46 inches (117 cm) away from the sensor tower.



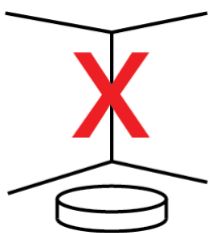
## Important location guidelines



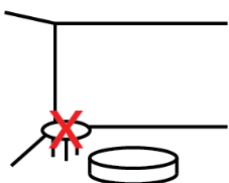
Ensure there is a flat, solid wall behind the rotating platform.



Avoid reflective surfaces, natural light and indoor lighting that emits infrared light.



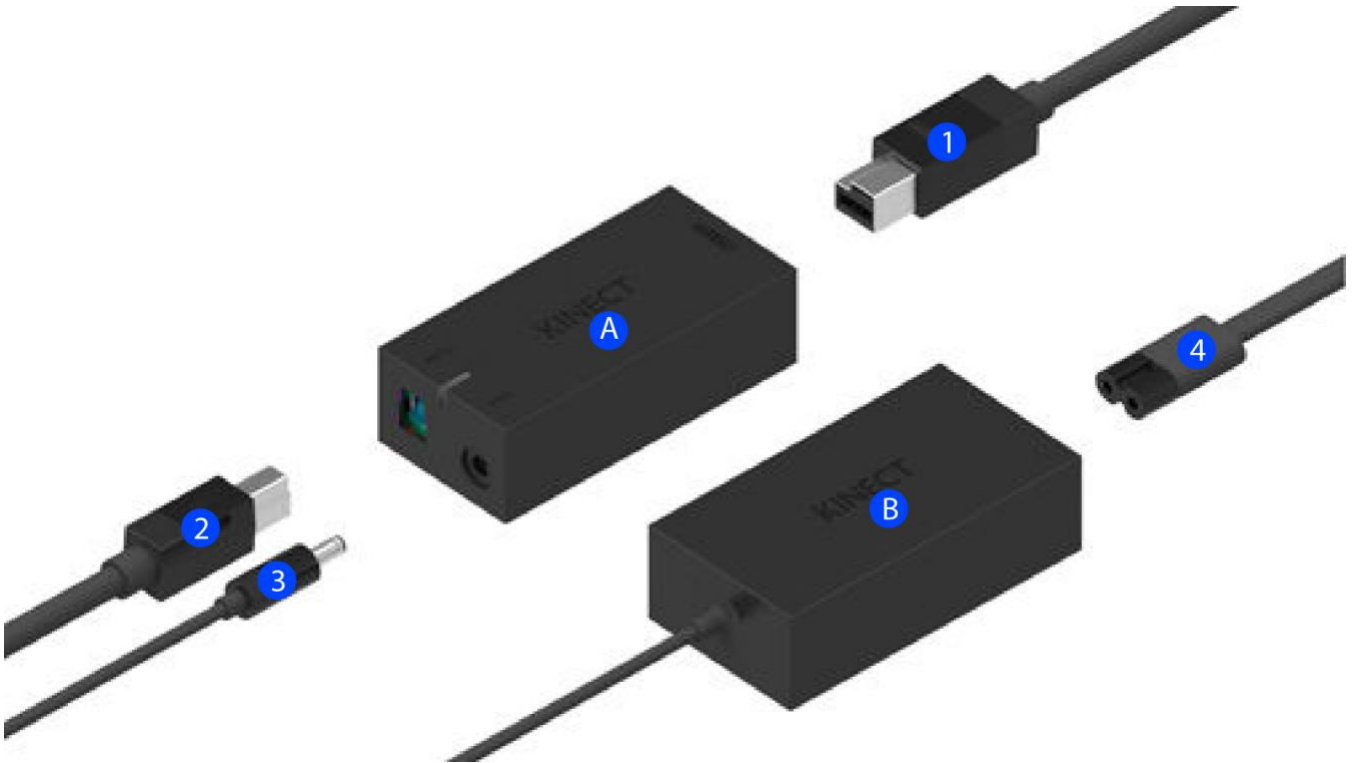
Do not place the rotating platform in a corner of a room.



Keep the area around the rotating platform clear of objects.



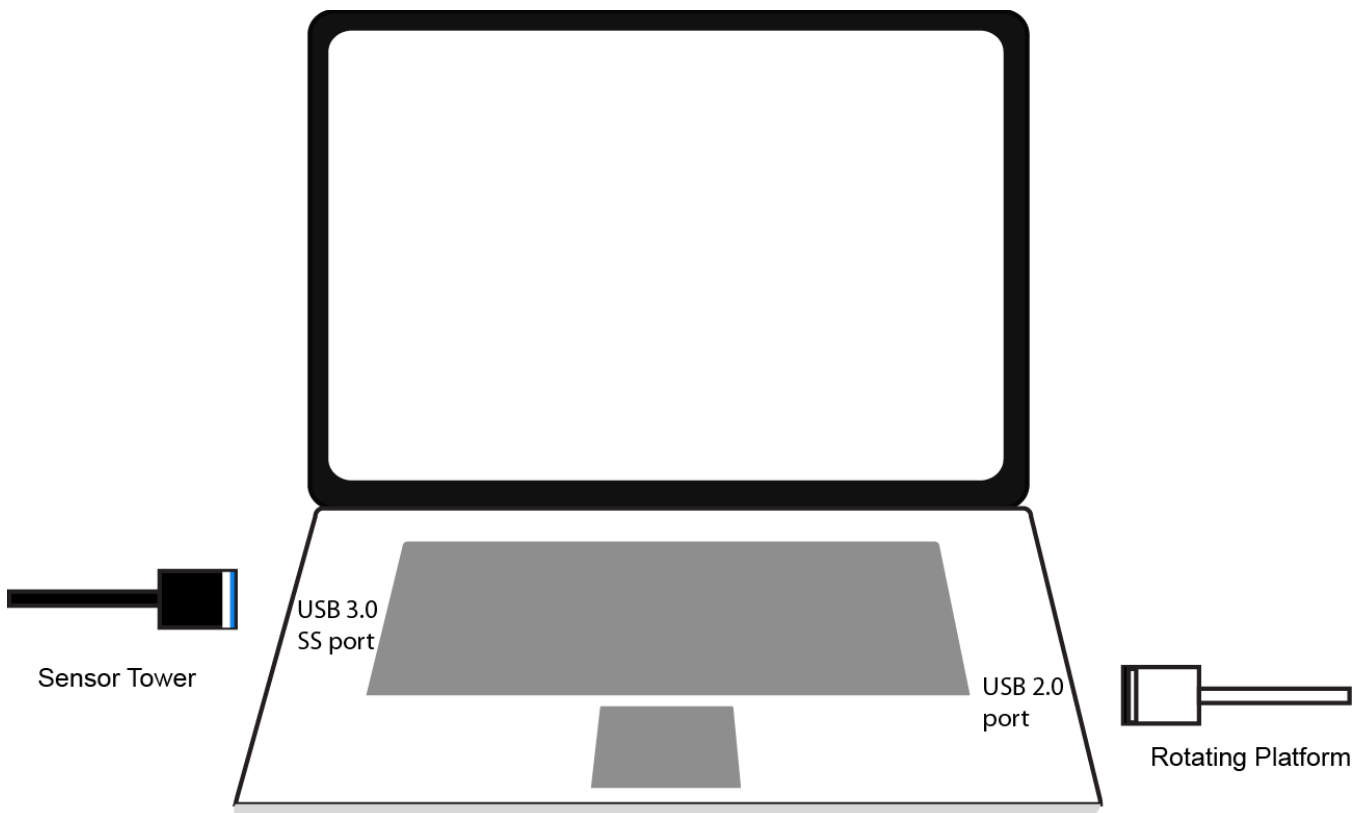
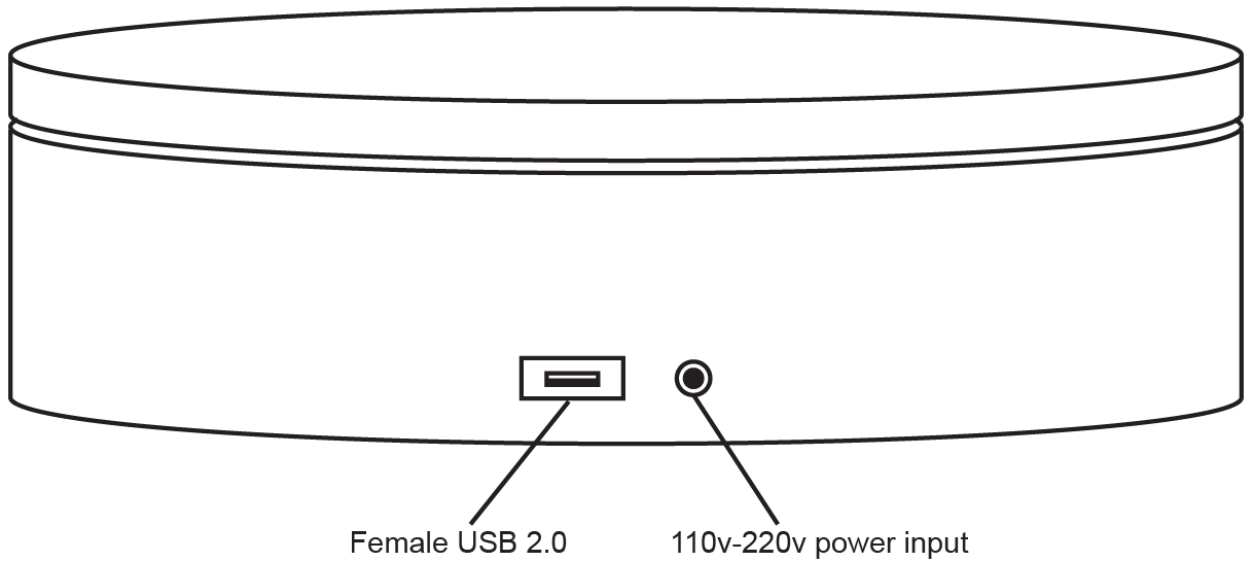
## Connect the sensor tower



- I. Connect the sensor cable coming from the bottom of the tower (1) to the smaller black brick (A).
- II. On the other side of the brick (A), plug in the USB cable (2). The other end of this cable will connect to the notebook computer.
- III. The larger black brick (B) has a thin cable coming out from it (3) ; plug that into the other side of the smaller brick (A). This is for the power.
- IV. Plug the power plug (4) to the other side of the larger brick (B). Plug the power into a power outlet.
- V. You should see a yellow light on the smaller brick (A) when the power is connected.
- VI. Next, plug the USB cable (2) into an empty USB 3.0 port on your computer, typically colored blue or with an SS symbol.

## Connect the rotating platform

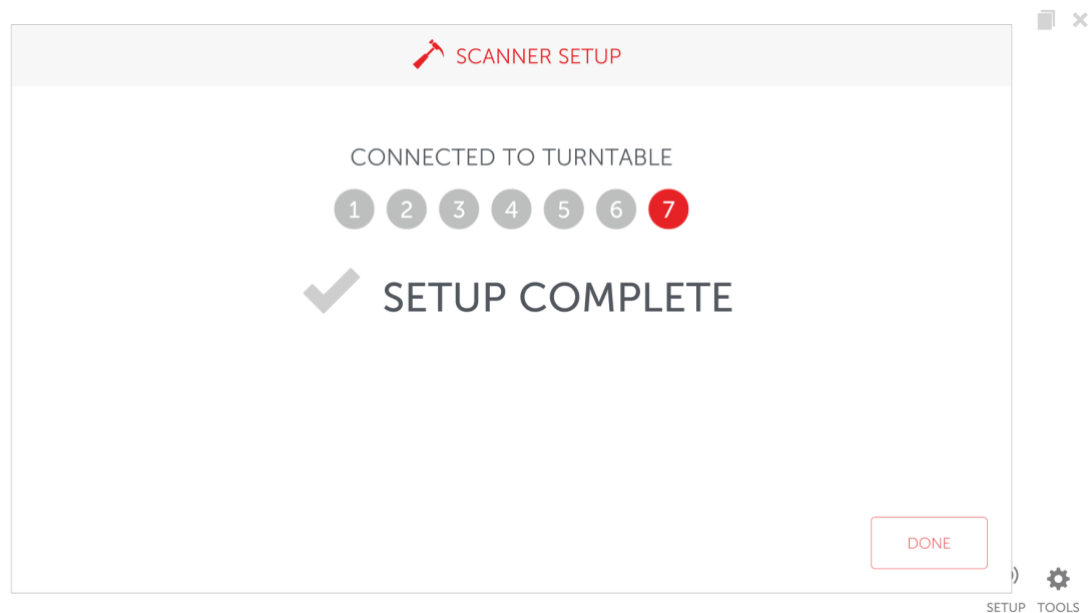
1. Connect the power adapter to the rotating platform and to a wall power outlet.
2. Then, connect the provided USB cable from the platform to an open USB 2.0 port on your computer.



## Check the hardware

### Press the setup button on the home screen

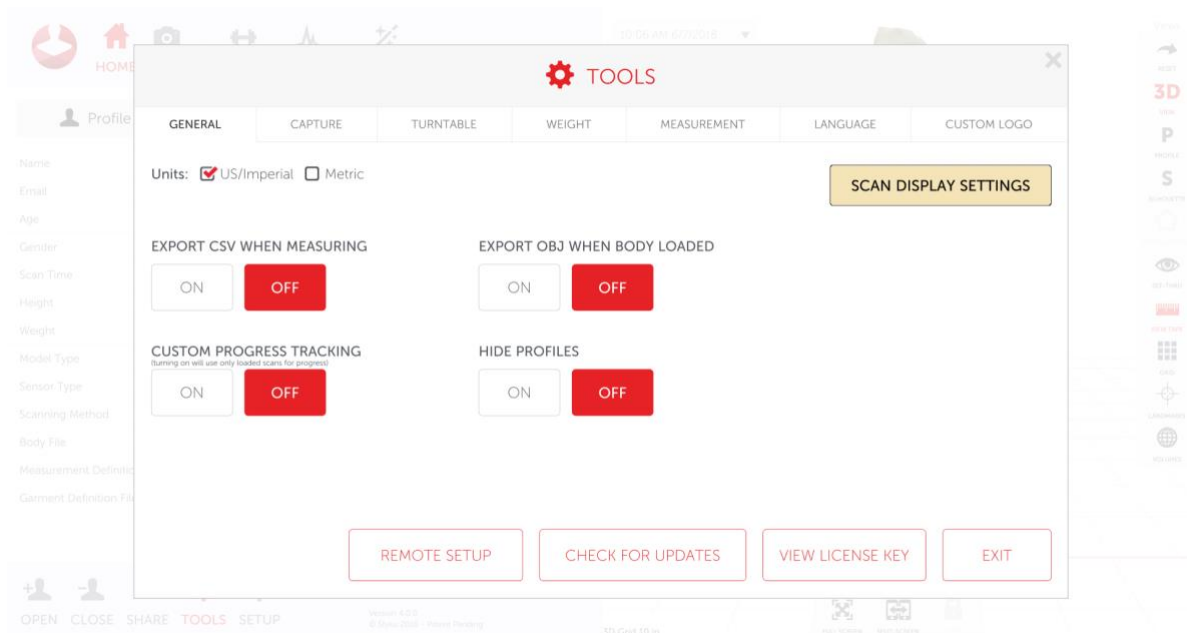
Press the setup button to go through a hardware check. When it reaches step 7 hardware is properly connected. Click done



## Accessing the tools menu

To access the tools menu press tools in the lower right hand area of screen

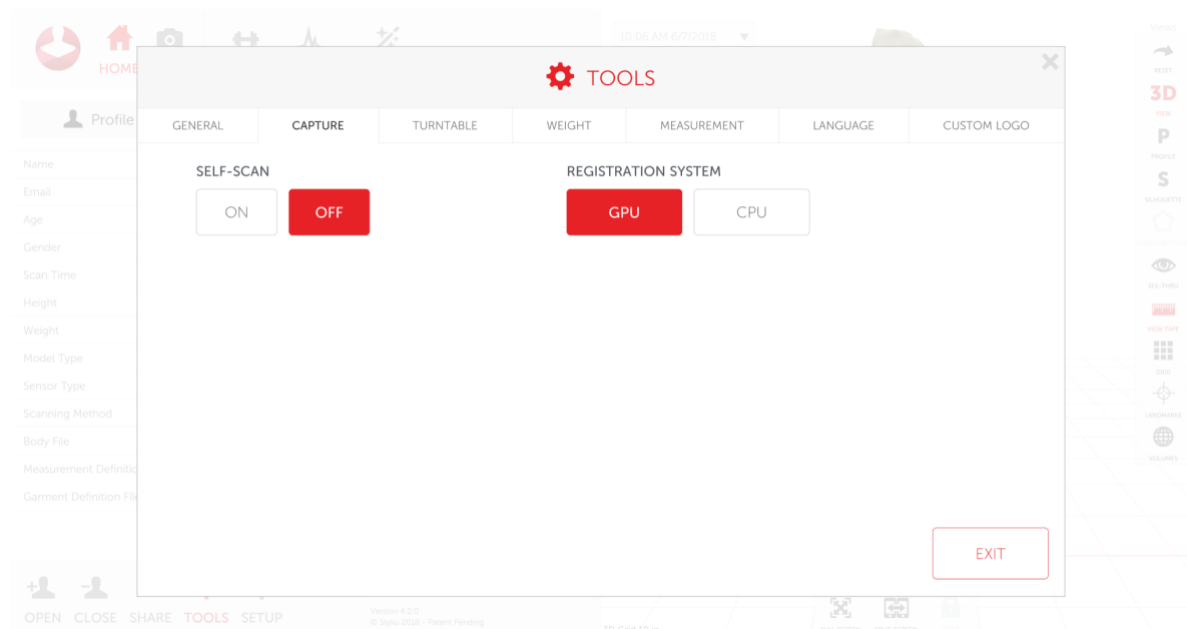
### General



- To change the unit, click US/Imperial or Metric depending on preferred units
- To change the look of the scan, click “scan display settings”
- To hide profiles during the “open profile” or “choose existing” options set “hide profiles” to off
- If a progress report is needed to be done on only loaded scans turn “custom progress tracking” on. This will create progress reports using only loaded scans, rather than all scans in a profile

## Capture

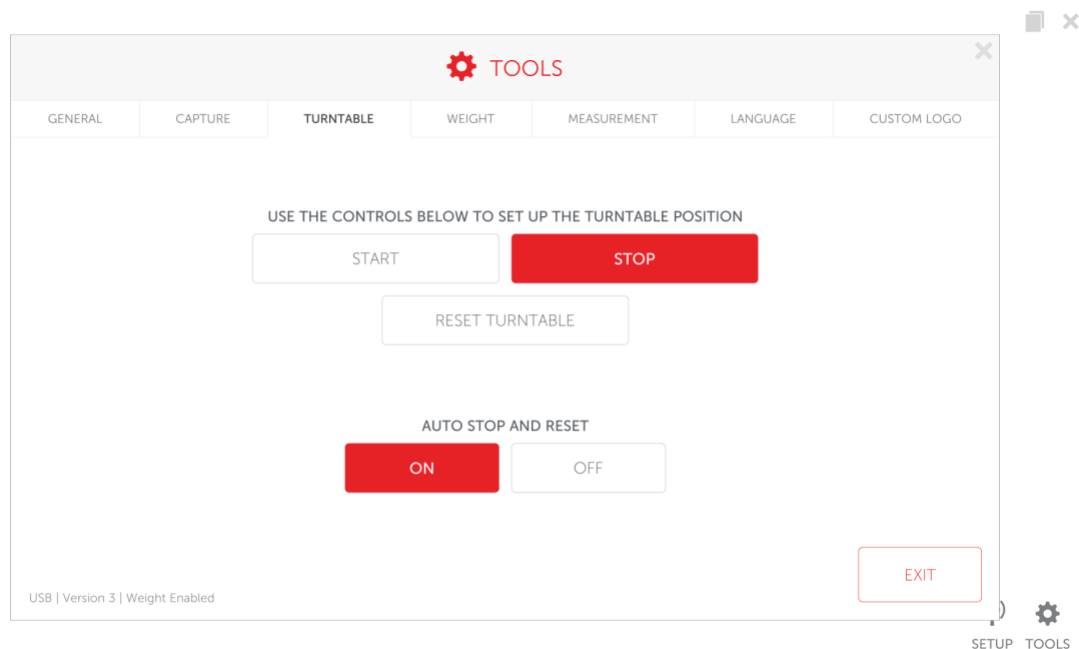
To access the capture screen, click capture



- To set self scan on click “on” in the self-scan option. Self scan allows scans to automatically start when the scan subject is in the correct position
- Registration system should be set to GPU if you are using the Styku provided laptop

## Turntable

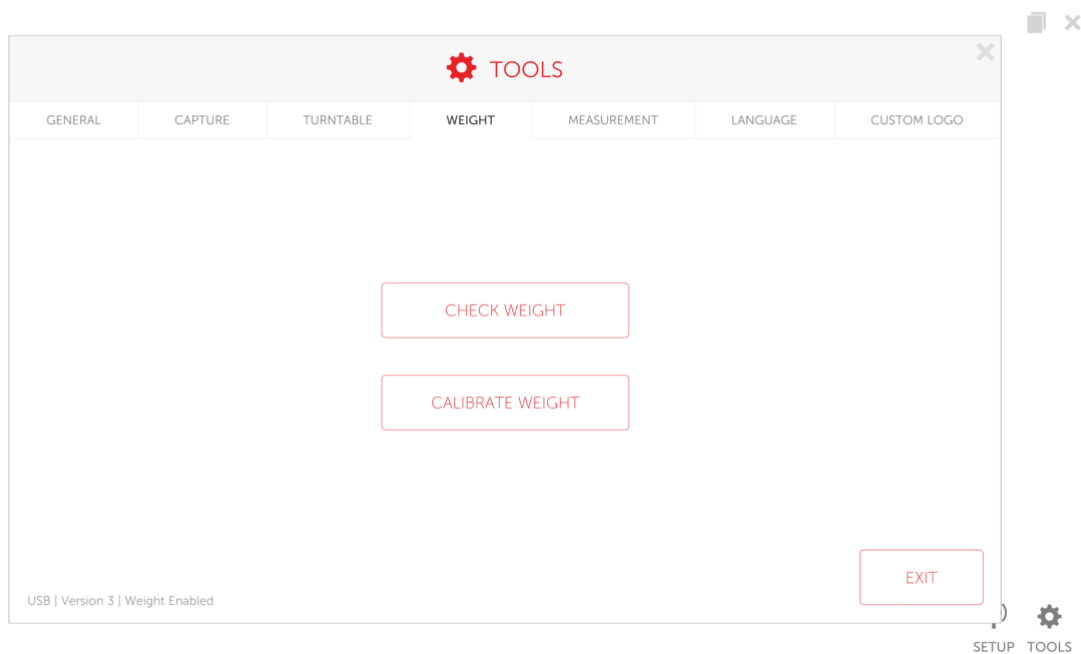
To access the turntable menu click “Turntable”



- The turntable can be started manually by pressing the start and stop button.
- On the bottom left edge of the screen is the model turntable that is used with the system
- The reset turntable option will reset the turntable back to the position where the last scan was started

## Weight

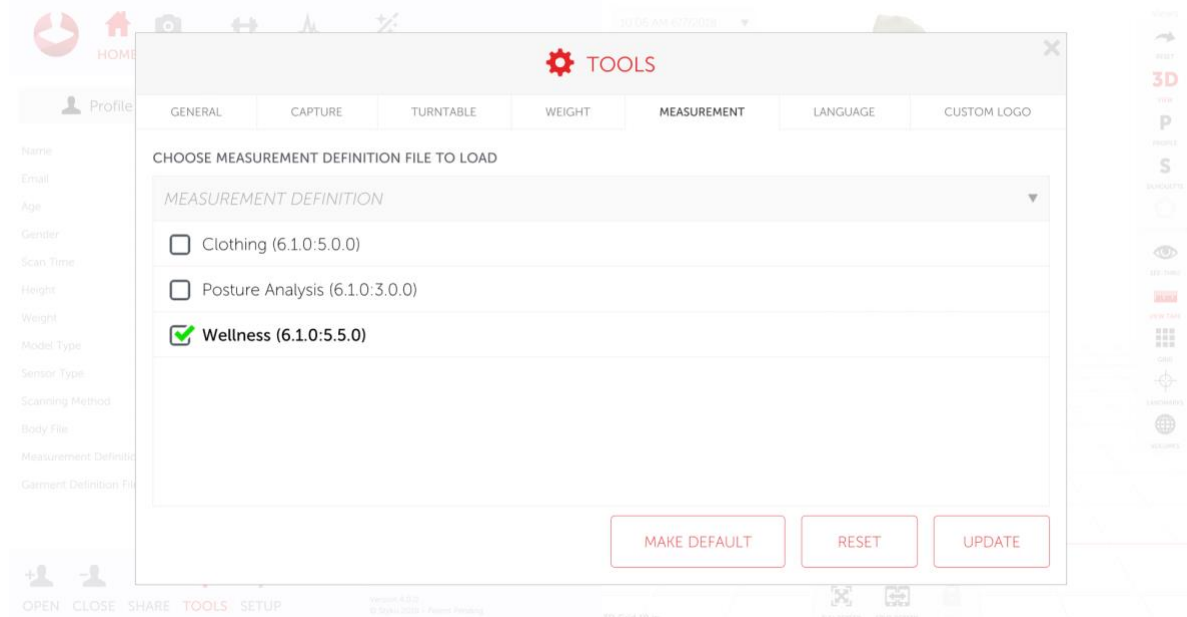
If you have a weight scale turntable press the “Weight” option to access the weight menu. This option will only show if the system is connected to a weight scale turntable



- Press the check weight option to weigh someone manually. Follow the onscreen prompts
- To calibrate the weight scale, click the “calibrate weight” option. Follow the on screen prompts to calibrate it.

## Measurement

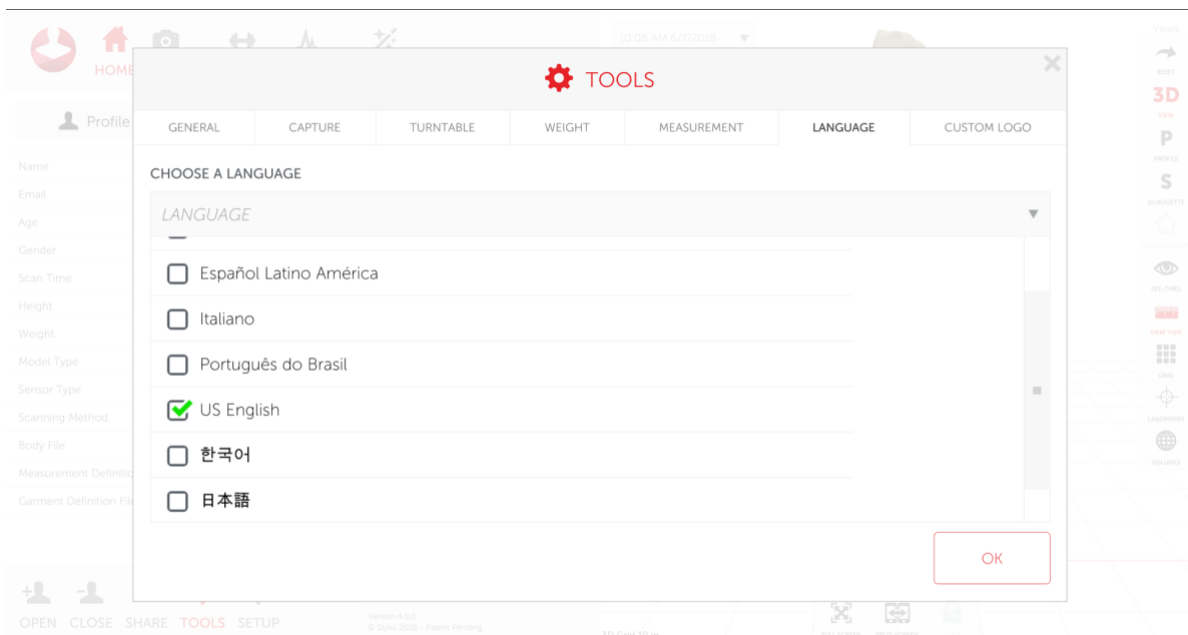
To change the loaded measurement set click the “Measurement” option. Click on one of the measurement sets and click “update” to load. If you wish to make that measurement the default option click “make default”.



- The clothing measurement set are measurements typically used by a tailor or made to measure company
- The posture analysis measurement set is used to measure someone's posture. It gives vector points through the body to show asymmetry
- The wellness measurement set is the default measurement set. It provides the different body circumferences

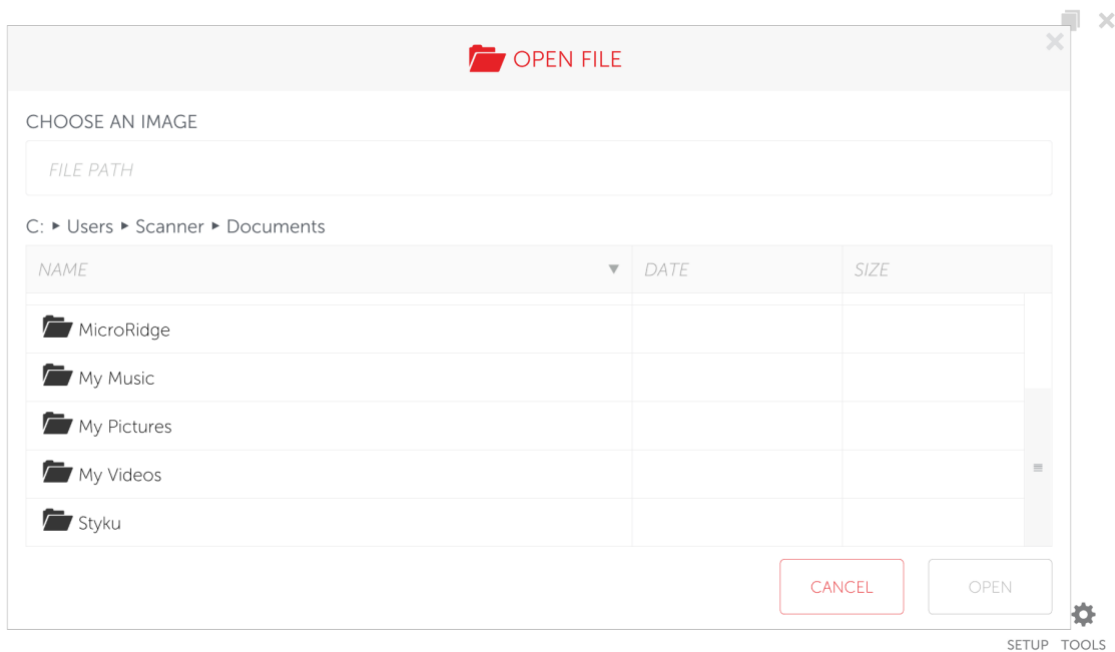
## Language

If you wish to change the language click the “language” button. Select the language you wish to change to, then click ok. The app will restart.



## Custom logo

A custom logo can be added to the reports. To add a logo make sure it is a .png file then place the file on the computer. Use the built in navigation menu to find the file. Select the file and click open.

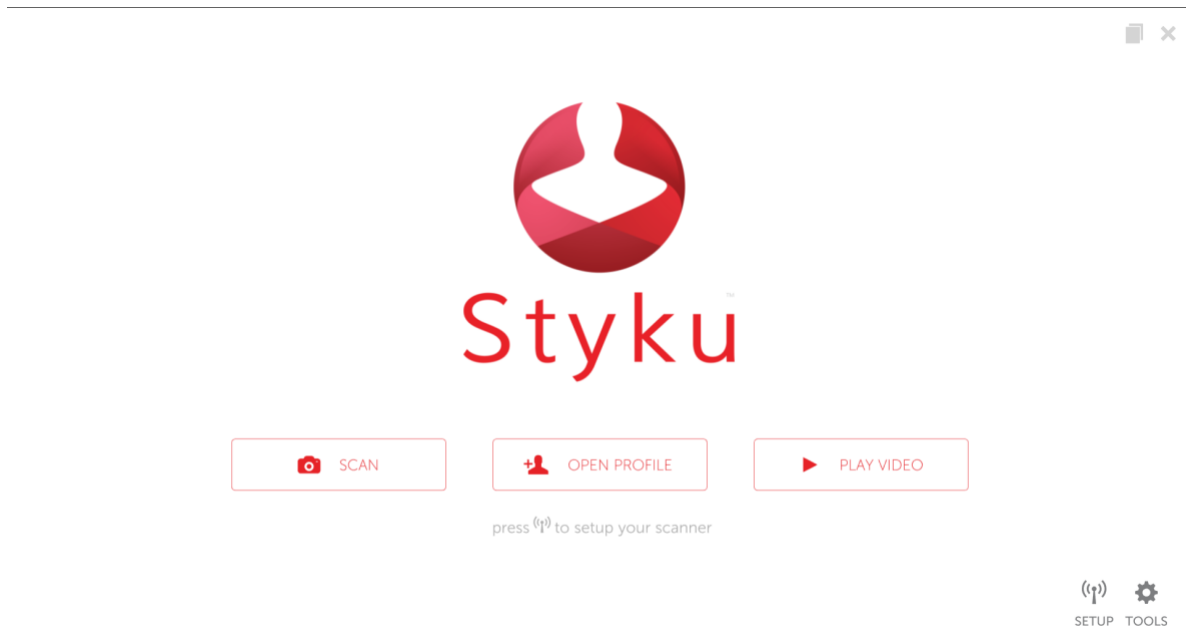


## Perform your first Styku body scan

**Note:** You can view a video of the scanning process by visiting the Styku Web Portal and choosing the Setup link, at <https://app.styku.com>.

## Launch the software and press the Scan button

To begin a scan, press the Scan button in the main window of Styku.



## Review scanning instructions



After pressing scan, you will come to two windows that show recommendations for the scanning environment and the scan subject. Here are the most important points:

For the scanning environment:

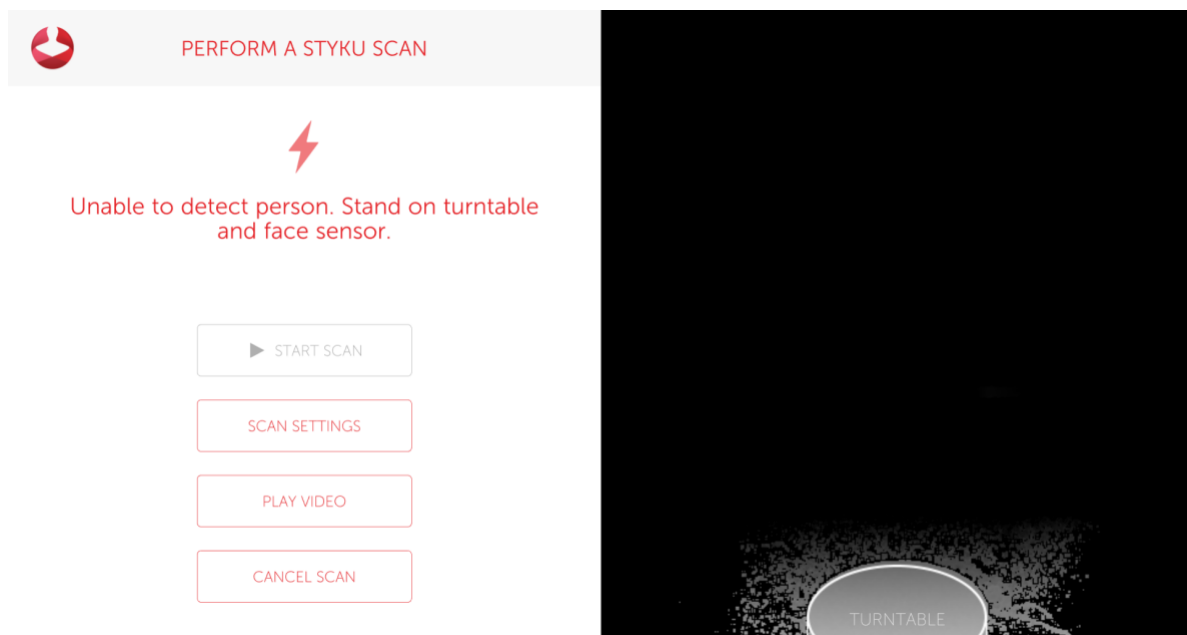
- Keep the scanning area clear of objects near or around the turntable, or blocking the view of the sensor. However, make sure you have a wall behind the turntable.
- Avoid natural light – daylight can interfere with the sensor. Some halogen lights can also cause issues with the sensor.
- Avoid reflective objects in the view of the sensor – don't scan in front of mirrors or other very reflective surfaces.

For the scan subject:

- They should wear form-fitting clothing – this sensor does not see through clothing!
- Long hair should be tied up off of the neck and shoulders.
- Take shoes and socks off prior to stepping on the turntable. Shoes can damage the turntable.

## Align the turntable and sensor tower

Move the turntable and/or sensor tower so that the turntable is in the white outline

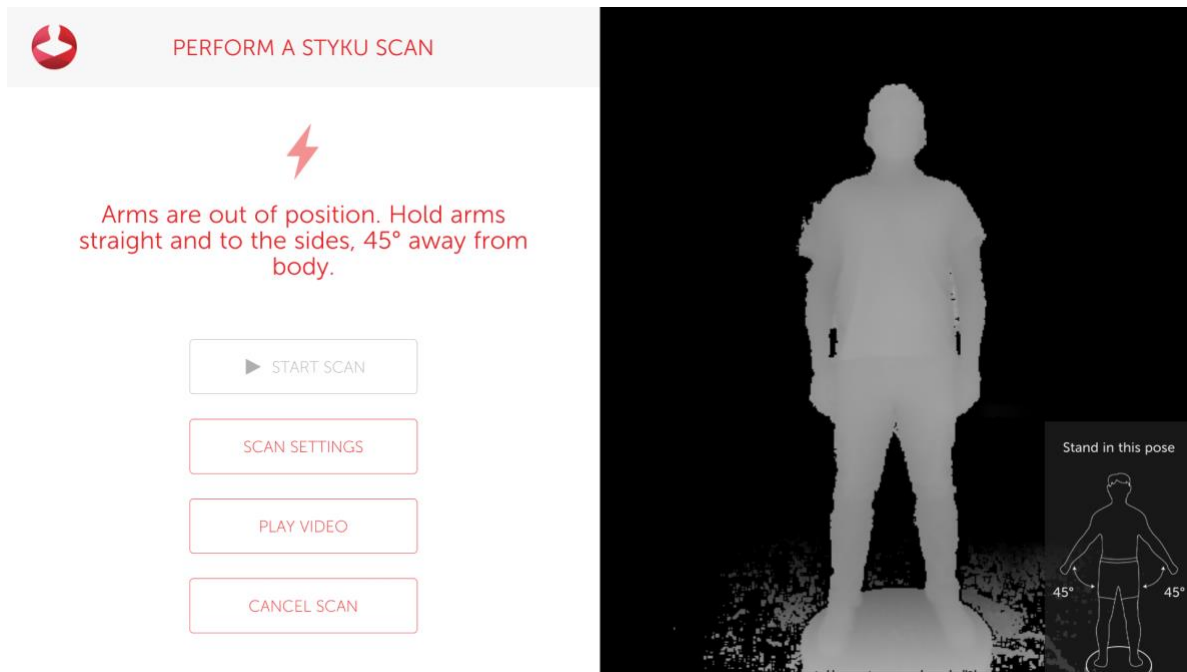


## Frame the subject in the sensor view and start scanning

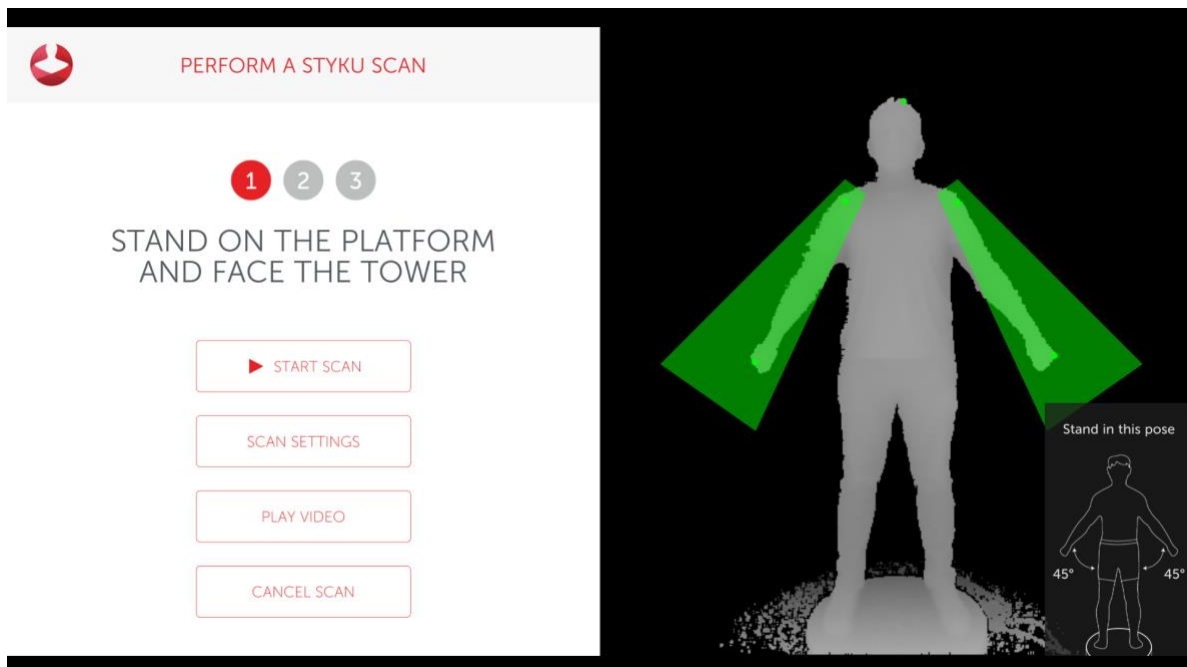
You will come next to the scanning view. You'll see on the right that there is an outline of a person in the correct posture.

Tips:

- Have your scan subject stand on the turntable and match the posture shown in the picture.
- Their feet should be about 8 inches apart(stand on the foot prints), and their arms 30-45 degrees away from their body.
- Their fingers should be curled into fists, and they should be facing the sensor head on.



When they are in position and standing still, the Start button will be enabled. Press 'Start' to begin scanning.



The turntable will begin to rotate automatically. When the scan is finished the turntable will stop by itself. The subject will rotate for more than 360 degrees before the turntable stops and the scan completes. A progress wheel will be displayed

Next, press the A NEW PROFILE option to create a new customer scan profile.



SCANNING COMPLETE

What profile did we scan?

A NEW PROFILE

AN EXISTING PROFILE

Complete the Customer Profile form, then press Continue. If you have a supported rotating platform, the weight will automatically be taken.



CREATE A CUSTOMER PROFILE

Please tell us a little about yourself.

First Name

Last Name

Email Address

Height (ft in)

Weight (lbs)

Age

Gender ▼

US/IMPERIAL ▲

BACK

➔ CONTINUE

## Review the scan and Save or Delete it

Styku will process the scan data and show you a preview of the scan while it extracts measurements. You can either 'Save' the scan, or 'Delete' it if you see a problem and would like to re-scan.

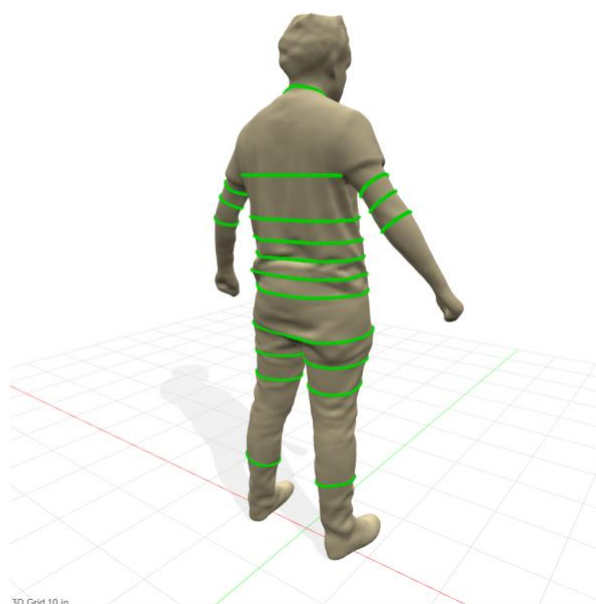


## SCAN PREVIEW

While we measure your scan, take a look at its quality and decide what you'd like to do next.

SAVE

DELETE



### Scan again or exit scanning

Once Styku has finished measuring, you will have the option to 'Scan Again' which means scan using the same profile information, perform a 'New Scan' which means scan using a new profile, or 'View Details', which means close the scanning part of Styku and go back to the rest of the program.

### Validate the Scanner Results

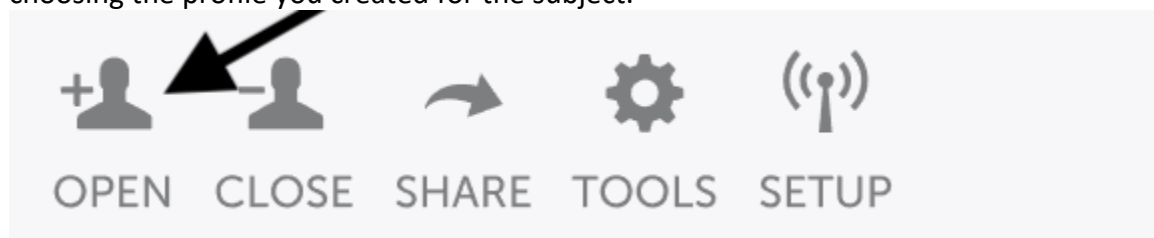
**Note:** You can view a video of the validation process by visiting the Styku Web Portal and choosing the Setup link, at <https://app.styku.com>.

### Scan your subject multiple times

To see that your Styku S100 scanner is set up properly and is generating precise measurements, scan a subject in the proper clothing 3 times in a row. You can click the "Scan Again" button to use the same customer profile for each scan.

### Load all of the scans into Styku

Open up all of the scans into the 3D viewer by pressing the Open button in the bottom left hand corner, and choosing the profile you created for the subject.



You will see a list of scans. Make sure they are all selected and then click 'Load' to load them all into the 3D viewer.

CHOOSE A SCAN FROM THE LIST BELOW

PROFILE: DANIELA@STYKU.COM	
<input checked="" type="checkbox"/>	DANIELA ARIAS
<input checked="" type="checkbox"/>	DANIELA ARIAS
<input checked="" type="checkbox"/>	DANIELA ARIAS
<input checked="" type="checkbox"/>	DANIELA ARIAS
<input checked="" type="checkbox"/>	DANIELA ARIAS

## Display measurement precision results

Once all of the bodies are loaded into the 3D viewer, click on the Trends tab.

The screenshot displays the Styku software interface. On the left, a 'Profile' tab is active, showing a table of user information for 'Mel Chin'. The 'Trends' tab is highlighted with a red box. The main 3D viewer shows a female body model with green measurement lines. A red line indicates the 'WASTELOWER' measurement at 31.59 in. The right sidebar contains various view options like 3D, Profile, Silhouette, etc. The bottom status bar shows the user profile, scan time, and version information.

Name	Mel Chin
Email	melanie.chin@styku.com
Age	26
Gender	Female
Scan Time	8/22/2014 4:11:59 PM
Height	5 ft 7 in
Weight	120 lbs
Model Type	Body
Sensor Type	unknown
Scanning Method	Booth with turntable
Body File	melanie.chin 8-22-2014 11_11_59 pm utc.sm
Measurement Definition File	Wellness
Garment Definition File	

Tap on one of the green measurement lines on the 3D body on the right to display a graph. Your graph should show close to the same measurements for each of the scans.

Above the graph are values for Average measurement, Standard Deviation and Percent Error. The Percent Error for all of the measurements in the torso should be at or under 0.5%. The Percent Error for the rest of the measurements in the limbs should be at or under 1.0%.



If you are seeing large differences between scans or you see parts of the body that are cut off or that look strange, check your scanning environment to make sure you are meeting the requirements. Correct any issues, and then scan again.

#### Note: How the scanner takes measurements:

The **measuring tape** is known to be error-prone. Measure in a place just a little bit different from the last time or with a different technique, and the measurement can be off by multiple centimeters!

The **Styku scanner** is an excellent tool for tracking change in a person's body over time. With it, you will be able to give up using the measuring tape altogether. Styku is able to eliminate human error as it is able to measure the same location in the same way each time.

The Styku scanner takes digital measurements that are extremely precise. However, they may not match the measurements you get by using a measuring tape. That's ok! Because the Styku scanner's measurements are precise, you can be sure that changes you see when you scan someone after a period of time (for example, if you scan someone now and then two weeks from now) are a result of changes to their body, and not error due to measuring.

## Troubleshooting Tips

Please see below for troubleshooting tips if your Styku S100 scanner is not working properly.

Symptom	Resolution
Sensor Not Detected	<ul style="list-style-type: none"><li>-Check the cables and adapter plugs (see pg. 12)</li><li>-Disconnect USB from computer, restart computer and reconnect USB</li><li>-Connect to different USB 3.0 port</li></ul>
Turntable isn't working	<ul style="list-style-type: none"><li>-Ensure power adapter is connected to the turntable and power outlet.</li><li>-Ensure USB cable is connected to both turntable and computer</li><li>-If your turntable has a power switch, ensure that it is on by checking to see if the “-” is depressed.</li></ul>
Connection Error	<ul style="list-style-type: none"><li>-Connect to the internet using WIFI or ethernet cables.</li><li>-Check that wifi card drivers are updated</li></ul>
Face distorted or limbs missing	<ul style="list-style-type: none"><li>-Subject moved during scan. Remind them to face forward and be as still as possible.</li></ul>
Application freezes and/or runs slow	<ul style="list-style-type: none"><li>-Check for Windows updates. Install if needed.</li><li>-Restart the computer</li></ul>
How do I update Styku?	Updates are checked automatically each time you run Styku. To Install updates, just follow the prompts.
The 3D camera view stutters, lags, or looks choppy	<ul style="list-style-type: none"><li>-Ensure that the laptop computer is plugged in</li><li>-Ensure that your computer is to “high performance” mode. This can be set in power options, in the control panel.</li></ul>

If the Styku S100 system or Styku Studio continues to work improperly, please contact your Styku representative, or Styku support at +1- 323 484 8490. Contact us through email at [support@styku.com](mailto:support@styku.com).

## Warranty Information

Styku includes a 3 year limited warranty on the rotating platform and the aluminum enclosure, and a 1 year limited warranty on the laptop and Kinect camera.

### Warranty is void if:

Outside software is loaded onto the computer

Computer, aluminum enclosure, turntable and/or Sensor are opened

## Contact Us

For questions, concerns or feedback, please use the following information to contact Styku:

### By Mail:

Styku, LLC  
5462 Jillson St.  
Commerce, CA 90040

### By Phone:

For Sales :       +1 323 248 0745  
For Support :     +1 323 484 8490

### By Email:

For Sales :       sales@styku.com  
For Support :     support@styku.com

For inquiries outside of the U.S.A., please contact your local distributor for sales and support related questions.



## Regulatory Information

### Styku S100



Styku, LLC hereby declares that this product is in compliance with the essential requirements and other relevant provisions of Directive 2014/32/EU and all other relevant EU directive requirements.

The Declaration of Conformity can be found at the end of this User Guide.

### Sensor Tower

The Styku S100 Sensor Tower contains a Microsoft® Xbox One Kinect sensor and an Xbox One Kinect Adapter for Windows.

Microsoft Corporation provides a Declaration of Conformity for each device. Copies of these can be found at:

[download.microsoft.com/download/A/B/8/AB8FB84D-8FE7.../EU\\_DoC\\_1520.pdf](https://download.microsoft.com/download/A/B/8/AB8FB84D-8FE7.../EU_DoC_1520.pdf)

[download.microsoft.com/documents/en-ie/eucompliancedoc/.../EU\\_DoC\\_1637.pdf](https://download.microsoft.com/documents/en-ie/eucompliancedoc/.../EU_DoC_1637.pdf)

Additional regulatory information can be found in the Xbox One Kinect and Xbox One Kinect Adapter for Windows product manuals included with the Styku S100.

### Rotating Platform



Styku, LLC hereby declares that this product is in compliance with the essential requirements and other relevant provisions of Directive 2014/35/EU and all other relevant EU directive requirements. The complete declaration of conformity can be found at the end of this User Guide.



Styku, LLC hereby declares that this product is in compliance with FCC Part 18 and all other relevant regulations.

### Notebook Computer

The Styku S100 includes a notebook computer manufactured by another company. Relevant regulatory information can be found in the notebook computer user manual included with the Styku S100.

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