Anthropometric Assessment

**Body Composition - Infrared 3D Body Scanner**

**Styku Infrared 3D Body Scanner**
- A pioneering and revolutionary solution for full body scanning and composition and nutritional and medical assessment
- The only technique available worldwide for showing the body in real 2 and 3 dimensions
- 3D body scanning has the same precision of the DEXA leaving out human measuring errors and takes only 35 seconds
- Uses harmless infrared light meeting all international safety regulations and can be used on pregnant women, patients with implanted medical devices, and children of any age
- Portable and lightweight: easy to move and reposition in multiple locations (5-minute setup)
- 3D body scanning has the same precision of the DEXA leaving out human measuring errors and takes only 35 seconds
- Uses harmless infrared light meeting all international safety regulations and can be used on pregnant women, patients with implanted medical devices, and children of any age
- Made in the USA
- Warranty: 2 year Limited Warranty against defects of materials or workmanship on turntable and tower and 1 year on laptop
- Warranty is only valid if a UPS & an electrical adapted stabilizer are used
- Comes in 2 options/solutions for the software (both have the same 3 hardware pieces):
  1. Wellness (Fitness)
  2. Aesthetic (Health)
- Used in diet, nutrition and weight loss clinics, fitness centers and gyms, health and medical fields (plastic and bariatric surgery, dermatology, etc.) and many others
- Made in the USA
- Warranty: 2 year Limited Warranty against defects of materials or workmanship on turntable and tower and 1 year on laptop

**ABSC001 - Styku 3D Body Scanner: Fitness**
- $12,500
- Includes: Turntable, Tower, laptop – Software (Fitness)

**ABSC002 - Styku 3D Body Scanner: Aesthetic**
- $16,500
- Includes: Turntable, Tower, laptop – Software (Aesthetic)

**Results of the Styku scanner: comparison between the Fitness and the Aesthetic options**

<table>
<thead>
<tr>
<th>Parameters and measurements provided</th>
<th>ABSC001 Fitness Option</th>
<th>ABSC002 Aesthetic Option</th>
</tr>
</thead>
<tbody>
<tr>
<td>Body composition (Lean and Fat mass percentages and in kilograms)</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>2D Body shape, profile and silhouette: Scan-like cross sections</td>
<td>Yes</td>
<td>Yes (Advanced)</td>
</tr>
<tr>
<td>3D Body shape, profile and silhouette</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Baseline circumferences measurements (bilateral): Neck, Chest, Waist (abdominal, lower, narrowest), hip (#2), Biceps (upper and lower), Forearm, Thigh (Upper, lower, mid), calves</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Body surface areas</td>
<td>Baseline (#5)</td>
<td>All body parts</td>
</tr>
<tr>
<td>Body volume measurements</td>
<td>Baseline (#5)</td>
<td>All body parts</td>
</tr>
<tr>
<td>Fat loss calculator</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>- Set fat loss goals for body fat % and fitness level, and track progress</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>- Reach your goal in a specified amount of time by setting the amount of weight per week</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Caloric expenditure</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>- Required calorie deficit per day to meet patient’s goals</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>- Energy balance by setting desired activity level to meet patient’s goals and calculate maximum calorie intake</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Rating: comparison of fitness level with averages and ranking</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Health risk analysis: likelihood of obesity-related diseases</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Health risk reduction: Using an interactive calculator, explores how a reduction in anthropometric measurements can reduce the risk of obesity-related diseases</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Progression of the above parameters over multiple tests</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Unlimited number of patients and scans per patient - Data is kept private and confidential</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Online backup and checking for all patients data (by healthcare professional and patient)</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>
Anthropometric Assessment

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Conditions for the test

- The test needs a WiFi connection during the scanning in order to be performed correctly and data transferred to the USA cloud server for analyzing.
- Patient height should be between 145 and 200cm and weight up to 200Kg.
- For children under 16, the 2D and 3D images, the volumes and circumferences are precise. Nevertheless, the algorithms to provide body composition and health recommendations are not adapted to this population.
- Patient should be wearing body shaping clothing for accurate results (legging, sports bra, contouring shorts and shirts, boxers, etc.). Fabric should be non-shining and non-reflective and better results are obtained if socks and shoes are removed.
- There are no specific patient conditions for the test: unrelated to physical activity, diet, hydration level, etc. before the test is made. Nevertheless, it is advisable to perform the tests in similar feeding conditions.

How the test is made

- Simply let your patient stand on the turntable and hold still for 35 seconds, while the platform rotates 360 degrees to capture full body.
- With its razor sharp high resolution infrared images the Kinect V2 scanner (mounted in the tower), captures millions of data points in a fast and non-invasive and harmless process.
- After the scanning is finished, the data are analyzed in 5 seconds by unique feature recognition algorithms that recognize key landmarks on a person body and use them to extract highly precise anthropometric measurements (Fitness or Aesthetic software) through cloud connection with the USA server.

Report Sample 1 (Fitness): Snapshot of the 3 Abdominal Circumferences

Report Sample 2 (Fitness): General Info

Report Sample 3 (Fitness): 3D Scan Measurements

Report Sample 4 (Fitness): Body Composition

Report Sample 5 (Fitness): Fat Loss

Styku Scan Report

JANE ROE

Scan Report

Styku Scan Report

JANE ROE

Scan Report

Styku Scan Report

JANE ROE

Scan Report

Styku Scan Report

JANE ROE

Scan Report
Body Composition - *Infrared 3D Body Scanner*

**Report Sample 6 (Fitness): Caloric Expenditure**

**Anthropometric Assessment**

**Scan Report**

<table>
<thead>
<tr>
<th>Activity &amp; Caloric Expenditure</th>
<th>JANE DOE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Caloric Deficit</strong> You’ll reach your goal by the target date with this caloric deficit.</td>
<td></td>
</tr>
<tr>
<td>500 Calories/day deficit</td>
<td></td>
</tr>
</tbody>
</table>

**Recting Metabolic Rate (RMR)**

This is how many calories you burn each day without doing any activity.

| 1447 Calories/day | 2025 Calories/day |

**Average Daily Caloric Expenditure**

This is the total calories you burn each day (RMR) at the above activity level.

<table>
<thead>
<tr>
<th>We Recommend</th>
<th>Keep your daily intake at or below the level listed below.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1525 Calories from Food and Beverage per day</td>
<td></td>
</tr>
</tbody>
</table>

**Report Sample 7 (Fitness): Waist Analysis**

**Scan Report**

<table>
<thead>
<tr>
<th>Waist Shape</th>
<th>JANE DOE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Your waist measurement: 33.0 in. Below is a top view of the shape of your waist.</td>
<td></td>
</tr>
</tbody>
</table>

**Waist Circumference**

- 78.72 cm 1.00 cm puts you at low risk of disease.
- 84.12 cm 1.50 cm puts you at low risk of disease.

**Waist-to-hip Ratio**

- 0.70 puts you at low risk of disease.
- 0.80 puts you at high risk of disease.

**Report Sample 8 (Fitness): Body Posture**

**Scan Report**

<table>
<thead>
<tr>
<th>Full Body Posture</th>
<th>JANE DOE</th>
</tr>
</thead>
</table>

**Report Sample 9 (Fitness): Centimeter Loss Goal**

**Scan Report**

<table>
<thead>
<tr>
<th>cm-Loss Goal</th>
<th>JANE DOE</th>
</tr>
</thead>
</table>

| 0.00 cm | 33.1 cm |

**Diseases**

Below is your likelihood of disease compared to those with an ideal waist line.

- 1X More likely to suffer from Cancer
- 1X More likely to suffer from Cardiovascular Disease
- 1X More likely to suffer from Respiratory Disease
- 1X More likely to suffer from All Other Diseases

For example, your waist circumference of 72.3 cm makes you 1 times more likely to suffer from cancer than those with a waist circumference lower than - 72.3 cm.

**Sample Progress Reports 1-2 (Fitness):**

Progression of the different parameters and measurements of the 3D scan performed on your patient over 5 consecutive tests.

**Sample Progress Report 3 (Fitness):**

Trunk Silhouette progression following weight loss.
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Report Sample 1 (Aesthetic): 3D Scan & Measurements

**Styku**

Scan Report

EXEMPLARY STYKU

**SENSORSTYKU**- Sensor Tower, Styku

- Aluminum tower containing the high accuracy sensor camera (Microsoft Kinect V2)
- Height: 117cm
- Diameter: 25.4cm
- Weight: 6kg
- Technology: Infrared Depth Sensor
- Depth Camera Resolution: 512x424
- Depth Data Resolution: ~2mm

Price: 3250$

**SCREENWARD**- Ward Screen, Three Panels

- 3 panels
- Made of easy to clean flame retardant vinyl for each panel
- Stainless steel tubular base and frame
- Sturdy, three panel hinged design folds in thirds for easy storage
- Wide stance legs with 6 wheels for easy mobility
- Single panel size is 165cm x 60cm (H x W)
- Overall size when fully opened is 175cm x 184cm (H x W)
- Height from floor to screen bottom is 10 cm
- Color: white

Price: 120$

**TRAVKITSTYKU**- Turntable, Styku

- Automatically rotating platform where patients stand while performing the Styku scanning test
- It connects to the notebook computer via USB 2.0 cable (provided)
- Height: 12.5cm
- Diameter: 66cm
- Weight: 10.5kg
- Speed: 35 seconds per revolution
- Power: 110-240V

Price: 3250$

**BAGSSTYKU**- Carrying bags, Styku

- Made of 2 carrying bags that make the transportation of your Styku parts practical
- Used for mobile usage of Styku units: multiple testing locations and clinics, expos, etc.
- Consisting of one handbag for the sensor tower and one backpack for the turntable

Price: 630$

Space requirements to set up the device pieces

- Minimum required area: 260 cm x 172 cm
- Distance of sensor from turntable: 117 cm
- Clearance around turntable: 53 cm on all sides
- Ensure there is a flat, solid wall behind the rotating platform
- Avoid reflective surfaces (mirrors, shining walls, etc.), 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