





- 1. Place the scale on a flat, hard surface. Carpeted or uneven floors may affect accuracy. 2. Step onto the scale platform and remain still while the scale computes your weight. 3. The scale displays your weight.
- 4. The scale will automatically turn off in about 10 seconds if there is no operation.

### USING THE SCALE AS BODY FAT SCALE

- 1.If you haven't programmed a user profile, please follow the instructions in "SETUP USER PROFILE" section to complete the setup.
- 2. If it is the first time use or has been moved from one place to another, please follow the instructions in "INITIALIZATION/ CALIBRATION" to initiate the scale.
- 3.For the most consistent and accuracy results, please measure at the same time of the day, and do not measure within 30 minutes after a meal or 120 minutes after an exercise.
- displaying the moving "o".

6.It automatically identifies a programmed profile (P1-P4). And then displays your Body Fat, Total Body Water, Muscle Mass, Bone Mass, Kcal and Weight two times in sequence. You can write down to track. You do not have to remain standing on the scale, it will turn off automatically.



NOTE:

If there is no profile matched, it will just go with the "WEIGHT-ONLY" mode, and displays your weight only.

If your weight changes by +/-2 kg (+/-4.4lb) or more, the scale may have trouble identifying your profile. It is recommended that you re-configure your profile.

If one or more other user's stored weight is within +/-2kg (+/-4.4lb) of your weight, the scale is unable to determine which one is your profile, and it will display a choice of profile numbers, you can then use the Up / Down arrow keys to confirm the correct profile. Upon confirming, it will display the results two times in sequence. If no profile is confirmed, it will automatically turn off after a few seconds.



### **BODY FAT**

1. Ideal body fat content is NOT the same for all people. Age, sex, and heredity are variables in this measurement. The table below is a general guide. Consult your physician to determine what is most ideal for you.

Male

Rating	Age				
	20-29	30-39	40-49	50-59	60+
Low	<13	<14	<16	<17	<18
Normal	14-20	15-21	17-23	18-24	19-25
Moderately High	21-23	22-24	24-26	25-27	26-28
High	>23	>24	>26	>27	>28
Famala					

Female

Single					
Rating	Age				
	20-29	30-39	40-49	50-59	60+
Low	<19	<20	<21	<22	<23
Normal	20-28	21-29	22-30	23-31	24-32
Moderately High	29-31	30-32	31-33	32-33	33-35
High	>31	>32	>33	>34	>35

2. It is recommended to measure body fat and weight daily at the same. 3. Use this product without clothing for best accuracy. Clothes can vary in weight and affect the

calculation. 4. Feet must be bare and clean. For best results, they should also be slightly damp.

## Reference:

University of Illinois Department of Food Science and Human Nutrition. Body Fat Percentage Calculator.

# www.ag.uiuc.edu/~food-lab/ai/bfc.html

## **TOTAL BODY WATER (TBW)**

You must wait several hours before taking a body fat analyze when: Drinking coffee or alcohol, taking diuretic medications, or exercising. These all affect your level of hydration and the accuracy of your body fat analyze.

Normal healthy range of total body water (TBW) percentage table:

	% Body Fate Range	Normal % TBW Range	
	4 to 14%	70 to 63%	
Maria	15 to 21%	63 to 57%	
Men	22 to 24%	57 to 55%	
	25 and over	55 to 37%	
	4 to 20%	70 to 58%	
Women	21 to 29%	58 to 52%	
	30 to 32%	52 to 49%	
	33 and over	49 to 37%	

Body water measurement results are influenced by the proportion of body fat and muscle. If the proportion of body fat is high, or the proportion of muscle is low, then the body water results will tend to below.

It is important to remember that measurements such as body weight, body fat and body water are tools for you to use as part of your healthy lifestyle. Since short term fluctuations can be normal, we suggest that you chart your progress over time, rather than focus on just a single day's reading. Consult your physician to determine what is most ideal for you

#### Reference:

Derived from Wang & Deurenberg: "Hydration of fat-free body mass". American Journal Clin Nutr 1999,69833-841.

## **MUSCLE MASS**

Muscle mass is important in determining a healthy body composition. A person with a higher % of muscle mass finds it easier to move, but needs more energy to do it. Exercise is very important in maintaining a healthy body and the muscle mass % is a useful indicator to control it. The normal muscle mass percentage on the body weight lies between 38% and 54% for men and between 28% and 39% for women depending on age and physical activity level.

Reference: International Commission on Radiological Protection, 1975

#### **BONE MASS**

The bone mass readings given by this scale are estimation of the amount of bone in your body. Individuals with osteoporosis or low bone densities may not get accurate. If you have any concern regarding your bones, please consult your doctor.

	Weight	Bone Mass	
	Less then 143 lb	5.9 lb	
Men	143 lb - 209 lb	7.3 lb	
	209 lb and up	8.1 lb	
	Less then 110 lb	4.3 lb	
Women	110 lb - 165 lb	5.3 lb	
	165 lb and up	6.5 lb	

#### KCAL

Kcal stands for Kilo-Calories, it tells you how much Kilo-Calories you need to consume each day to keep your body weight not gaining or losing.

## MAINTENANCE AND CARE

• The product is intended for home / consumer use only; it is not intended for professional use in hospitals or medical facilities.

- · Clean exposed parts with a soft, slightly, damp cloth. To remove stains, use a mild soap.
- Never use detergents, excess water, treated cloths, harsh cleaning agents, or sprays.
- Do not immerse scale in water.
- Treat your scale with care to ensure the best performance. It contains sensitive electronic parts. Avoid rough treatment. Do not jump on, drop or kick the scale.
- Do not attempt to lubricate, disassemble, or open the scale casing as this will void warranty.
- · Always weigh yourself on the same scale placed on the same floor surface.
- Do not compare weight readings from one scale to another as some differences do exist due to manufacturing tolerances.
- · Place your scale on a hard even floor to ensure the greatest accuracy and consistency.
- It is recommended that you measure at the same time of the day, preferably early evening before a meal, for the most consistent results.
- · Your scale rounds up or down to the nearest increment.
- If you weigh yourself twice and get two different results, your weight lies between the two.
- Do not dispose of batteries in fire. Batteries may explode or leak. Remove batteries from the scale if it will not be used for a long period.
- Do not store the scale where you store cleaning chemicals. The vapors may affect the electronic components of your scale. Do not store the scale on its side.
- Store your scale in a clean, dry location at room temperature. Dust, dirt, and moisture from humidity can accumulate on the weighing sensors causing inaccuracy or malfunction.
- · To prevent battery drainage, do not store anything on the scale.

#### TROUBLESHOOTING

- 1. You must have bare feet to take measurements. In order to get the most accurate and Consistent results, wipe your feet with a damp cloth, leaving them slightly damp before stepping on the scale. Repeat measurements again, maintaining maximum contact between your feet and metal sensors.
- 2. The condition of the skin on the bottom of your feet can affect the results. The natural effects of aging activity can make the skin hard. Take the reading with clean and slightly damp feet

Issues	Cause	Solution
	Overload. The scale will turn off in a few seconds.	Stop using the scale for this measurement, or it will damage the G-Sensors.
	Low battery. The scale will turn off in 4 seconds.	Replace with new batteries
Abnormal measuring results: - Too high; - Too low; - Huge difference between recent measurements	Cold electrodes Either your hands or your feet are too dry.	Place the scale in a warm room for a while before measuring Wipe your feet with a damp cloth, keep them slightly damp when measuring.
After standing on the scale, the LCD doesn't light up	<ol> <li>Batteries are exhausted.</li> <li>Batteries are not installed properly</li> </ol>	Replace with new batteries. Install the batteries properly
Nothing display on the screen when the	Batteries are not installed or improperly installed.	Install batteries properly
device is power on	Batteries are exhausted.	Replace all the 4 batteries with new.
Can not process analyze on body fat, total body water,	Step onto the platform with socks or shoes wearing	Please keep barefooted during measurement, and keep your foot contact with the electrodes
muscle mass, bone mass and kcal	The scale can not identify a possible Profile with most similar weight	Please choose a Profile ID following the instruction in "SET-UP PROFILE" section
	The user fails to select a Profile from what the scale found	Please choose a Profile ID following the instruction in "SET-UP PROFILE" section
The scale power off automatically	Low battery	Replace all the 4 batteries with new.

#### **FCC REGULATIONS**

This device complies with part 15 of the FCC Rules. Operation issue subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received including interference that may cause undesired operation.

## **APPENDIX**

## **EMC Guidance**

Table 1 Guidance and MANUFACTURER's declaration - ELECTROMAGNETIC EMISSIONS- for all ME EQUIPMENT and ME SYSTEMS

Guidance and manu	ifacturer's declaratio	n – electromagnetic emissions
		magnetic environment specified below. The ssure that it is used in such an environment.
Emissions test	Compliance	Electromagnetic environment - guidance
RF emissions CISPR 11	Group 1	The device uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.
RF emissions CISPR 11	Class B	
Harmonic emissions IEC 61000-3-2	Not applicable	
Voltage fluctuations/ flicker emissions IEC 61000-3-3	Not applicable	

Table 2 Guidance and MANUFACTURER's declaration - electromagnetic IMMUNITY - for all ME EQUIPMENT and ME SYSTEMS

nded for use in the election the user of the device sho						
IEC 60601 toot loval		ised in such an environment				
IEC 60601 test level	IEC 60601 test level Compliance level Electromagnetic environment - guidance					
±6 kV contact ±8 kV air	±6 kV contact ±8 kV air	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30%.				
±2 kV for power supply lines ±1 kV for input/output lines	Not applicable	Mains power quality should be that of a typical commercial or hospital environment.				
±1 kV line(s) to line(s) ±2 kV line(s) to earth	Not applicable	Mains power quality should be that of a typical commercial or hospital environment.				
	Not applicable	Mains power quality should be that of a typical commercial or hospital environment. If the user of the device requires continued operation during power mains interruptions, it is recommended that the device be powered from an uninterruptible power supply or a battery.				
3A/m	3A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.				
		$\begin{array}{c} \pm 8 \text{ kV air} \\ \end{array} \\ \begin{array}{c} \pm 6 \text{ kV contact} \\ \pm 8 \text{ kV air} \\ \end{array} \\ \begin{array}{c} \pm 8 \text{ kV air} \\ \text{ hot applicable} \\ \text{ hot applicable} \\ \end{array} \\ \begin{array}{c} \pm 1 \text{ kV for} \\ \text{ input/output lines} \\ \pm 1 \text{ kV line(s)} \\ \text{ to line(s)} \\ \pm 2 \text{ kV line(s)} \\ \text{ to line(s)} \\ \pm 2 \text{ kV line(s)} \\ \text{ to earth} \\ \end{array} \\ \begin{array}{c} 5\% \text{ UT} \\ (95\% \text{ dip in UT} ) \\ \text{ for 0.5 cycles} \\ 10\% \text{ dip in UT} ) \\ \text{ for 5 cycles} \\ 10\% \text{ dip in UT} ) \\ \text{ for 25 cycles} \\ \hline \\ \begin{array}{c} 5\% \text{ UT} \\ (95\% \text{ dip in UT} ) \\ \text{ for 25 cycles} \\ \hline \\ \hline \\ \hline \\ \begin{array}{c} 5\% \text{ UT} \\ (95\% \text{ dip in UT} ) \\ \text{ for 5 s} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} 8 \text{ kV contact} \\ \pm 8 \text{ kV air} \\ \hline \\ \text{ Not applicable} \\ \hline \\ \text{ Not applicable} \\ \hline \\ \hline \\ \begin{array}{c} 8 \text{ kV air} \\ \hline \\ \text{ hot applicable} \\ \hline \\ \hline \\ \begin{array}{c} 8 \text{ kV air} \\ \hline \\ \text{ hot applicable} \\ \hline \\ \hline \\ \begin{array}{c} 8 \text{ kV air} \\ \hline \\ \text{ hot applicable} \\ \hline \\ \hline \\ \begin{array}{c} 8 \text{ kV air} \\ \hline \\ \hline \\ \end{array} \\ \end{array} \\ \end{array}$				

Table 4 Guidance and MANUFACTURER's declaration - electromagnetic IMMUNITY for ME EQUIPMENT and ME SYSTEMS that are not LIFE-SUPPORTING

The device is intended for use in the electromagnetic environment specified below.The customer or the user of the device should assure that it is used in such an environment.IMMUNITY testIEC 60601 TEST LEVELCompliance levelElectromagnetic environment - guidanceIMMUNITY testIEC 60601 TEST LEVELCompliance levelPortable and mobile RF communications equipment should be used no closer to any part of the device, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter.Conducted RF IEC 61000-4-6 Radiated RF IEC 61000-4-33 V/m 80 MHz to 2.5 GHzNot applicable 3 V/mRecommended separation distance d = $(\frac{35}{\Gamma_1})\sqrt{P}$ d = 1.167 $\sqrt{P}$ 80 MHz to 2.5 GHz3 V/m3 V/m3 V/mWhere P is the maximum output power rating of the transmitter maufacturer and of is the recommended separation distance in metres (m).NOTE 1At 80 MHz and 800 MHz, the higher frequency range applies. NOTE 2These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.aField strengths from fixed transmitters, such as base stations for radio (cellular / cordless) telephones and land mobile radios, Am and FM radio broad-cast and TV bradcast cannot be predicted theoretically with accuracy. To assess the electromagnetic event of the device.aField strengths from fixed transmitters, such as base stations for radio (cellular / cordless) telephones and land mobile radios, Am and FM radio broad-cast and TV bradcast cannot be predicted theoretically with accuracy. To ass	Guidance and	manufacturer's	declaration – ele	ctromagnetic immunity
Conducted RF IEC 61000-4-63 Vrms 150 KHz to 80 MHzNot applicablePortable and mobile RF communications equipment should be used no closer to any part of the device, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter.Conducted RF IEC 61000-4-63 V/m 80 MHz 2.5 GHzNot applicableRecommended separation distance $d = [\frac{35}{V_1} + \sqrt{P}]$ $d = 1.167 \sqrt{P}$ 80 MHz to 800 MHz $d = 2.333 \sqrt{P}$ 800 MHz to 2.5 GHzWhere P is the maximum output power rating of the transmitter in watts (W) according to the transmitter in watts (W) according to the transmitter mulacturer and d is the recommended separation distance in metres (m).NOTE 1At 80 MHz and 800 MHz, the higher frequency range applies.NOTE 1At 80 MHz and 800 MHz, the higher frequency range applies.NOTE 2These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.* Field strengths from fixed ransmitters, such as base stations for radio (cellular / cordless) telephones and land mobile radios, amateur radio, AM and FM radio broad-cast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic propagation in which the device is used exceeds the applicable RF complication in which the device is used exceeds the applicable RF complication is been way to apply in all situations. Electromagnetic elevel RF transmitters, an electromagnetic site survey. To assess the electromagnetic propagation is affected by absorption and reflection from structures, objects and people.* Field strengths from fixed transmitters, such as base stations for radio (cellular				
Conducted RF IEC 61000-4-63 Vrms 150 kHz to 80 MHz to 2.5 GHzNot applicable 3 V/mRecommended separation distance calculated from the equation applicable to the frequency of the transmitter.Radiated RF IEC 61000-4-33 V/m 8 0 MHz to 2.5 GHz3 V/m3 V/m3 V/m3 V/m3 V/mBo MHz to 2.5 GHz3 V/m3 V/mMore P is the maximum output power rating of the transmitter in watts (W) according to the transmitter, and is the recommended separation distance in metres (m).NOTE 1At 80 MHz and 800 MHz, the higher frequency range applies.NOTE 2These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.aField strengths from fixed transmitters, such as base stations for radio (cellular / cordless) telephones and land mobile radios, amateur radio, AM and FM radio broad-cast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF trans	IMMUNITY test			5
<ul> <li>NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.</li> <li><sup>a</sup> Field strengths from fixed transmitters, such as base stations for radio (cellular / cordless) telephones and land mobile radios, amateur radio, AM and FM radio broad-cast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the device is used exceeds the applicable RF compliance level above, the device should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as re-orienting or relocating the device.</li> </ul>	IEC 61000-4-6 Radiated RF IEC 61000-4-3	150 kHz to 80 MHz 3 V/m 80 MHz to 2.5 GHz	3 V/m	equipment should be used no closer to any part of the device, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter. <b>Recommended separation distance</b> $d = [\frac{3.5}{V_1}]\sqrt{P}$ $d = 1.167\sqrt{P}$ 80 MHz to 800 MHz $d = 2.333\sqrt{P}$ 800 MHz to 2.5 GHz where P is the maximum output power rating of the transmitter manufacturer and d is the recommended separation distance in metres (m). Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey, should be less than the compliance level in each frequency range. Interference may occur in the vicinity of equipment marked with the following symbol:
and land mobile radios, amateur radio, AM and FM radio broad-cast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the device is used exceeds the applicable RF compliance level above, the device should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as re-orienting or relocating the device.	NOTE 2 The	ese guidelines m	ay not apply in a	all situations. Electromagnetic propagation
- Over the negacity range 100 km2 to ov winz, tield strengths should be less than 1/40/01.	and land mobi predicted theo transmitters, a the location in device should additional mea	ile radios, amateur pretically with accur an electromagnetic which the device is be observed to ver asures may be nec	radio, AM and FM acy. To assess the site survey should s used exceeds the ify normal operatic essary, such as re-	radio broad-cast and TV broadcast cannot be electromagnetic environment due to fixed RF be considered. If the measured field strength in e applicable RF compliance level above, the in. If abnormal performance is observed, orienting or relocating the device.

Table 6 Recommended separation distances between portable and mobile RF communications equipment and the ME EQUIPMENT or ME SYSTEM for ME EQUIPMENT and ME SYSTEMS that are not LIFE-SUPPORTING

#### Recommended separation distances between portable and mobile RF communications equipment and the device.

The device is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the devicecan help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmittters) and the device as recommended below, according to the maximum output power of the communications equipment.

Separation distance according to frequency of transmitter (m) Rated maximum output power of transmitter

(VV)					
	150 kHz to 80 MHz $d = [\frac{3,5}{V_1}]\sqrt{P}$	80 MHz to 800 MHz $d = 1.167 \sqrt{P}$	800 MHz to 2.5 GHz $d = 2.333 \sqrt{P}$		
0.01	Not applicable	0.117	0.233		
0.1	Not applicable	0.369	0.738		
1	Not applicable	1.167	2.333		
10	Not applicable	3.690	7.378		
100	Not applicable	11.67	23.33		
	For transmitters rated at a maximum output power not listed above, the recommended separation distance <b>d</b> in matrix (m) can be estimated using the equation applicable to				

ce **d** in metres (m) can be estimated using the equation ap ration dist the frequency of the transmitter, where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer. NOTE 1 At 80MHz and 800MHz, the separation distance for the higher frequency

range applies. NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation

is affected by absorption and reflection from structures, objects and people.

#### WARRANTY

This product is warranted against defects in materials and workmanship for one year from the date purchase, when used in accordance with the instructions provided. This warranty does not cover damages or wear resulting from accident, misuse, abuse, commercial use, or unauthorized adjustment and/or repair.

C8KE INC. shall not be liable for loss of use or any other incidental, consequential or indirect costs, expenses or damages. There are no express warranties except as listed above. This warranty gives you specific legal rights, and you may have other rights which vary from state to state.

Should this product require service (or replacement at our option) while under warranty, please visit website www.surpahs.com and submit a support ticket.

If you have any questions about this product, please visit www.surpahs.com, or scan the QR code, find the support link.

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