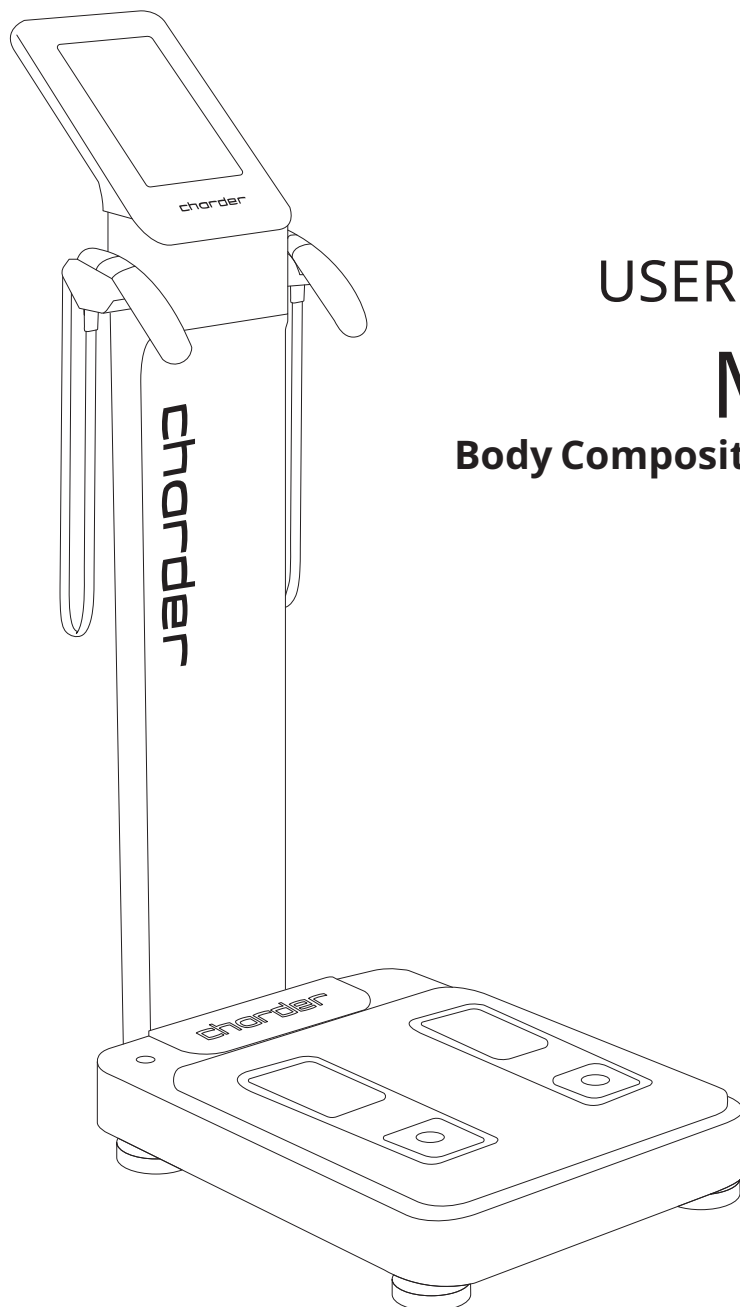




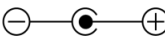
USER MANUAL
MA801
Body Composition Analyzer



Please keep the instruction manual at hand and follow instructions for use.

Explanation of Graphic Symbols on Label/Packaging

Text/Symbol	Meaning
	Caution. Failure to follow instructions may result in adverse events
	Separate collection for waste of electrical and electronic equipment, in accordance with Directive 2002/96/EC. Do not dispose of device with everyday waste
	Name and address of device manufacturer
	Carefully read user manual before installation and usage, and follow instructions for use.
	Medical electrical device, Type BF applied part
REF	Device catalogue number
EU REP	Name and address of authorized representative in the European Union
MD	Device is a medical device. Text indicates device category type
LOT	Manufacturer's batch or lot number for device
SN	Device's serial number
#	Device's model number
UDI	Device's Unique Device Identifier (01) GTIN (11) Production date (21) Serial number
e	Verification Scale Interval. Value expressed in units of mass. Used for classification and verification of an instrument.
CE 2460	Device conforms to (EU) 2017/745 Regulation on Medical Devices. Four digit number is identifier for medical device Notified Body
CE	Device claims conformity with essential regulations set by the relevant European Union legislation

	Device complies with EC directives (verified models only) M: Conformity label in compliance with Directive 2014/31/EU for Non-Automatic Weighing Instruments 17: Year in which conformity verification was performed and CE label was applied. (ex: 17=2017) 0122: Identifier for metrology Notified Body
	Device is a Class III scale in compliance with Directive 2014/31/EU
	Name and address of entity importing device
	Name and address of entity responsible for translating Information For Use
CON.	Event counter recording how many times protected-mode parameter adjustments (ex: gravity value) have been conducted for device
	Device has received Taiwan NCC approval
	Device conforms to U.S. Federal Communications Commission regulations
	Device complies with all UK applicable product legislation
	Device's polarity of power.

In case of differences, icon on device itself takes precedence

Copyright Notice

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Charder Electronic Co., Ltd. No. 103, Guozhong Rd., Dali Dist.,
Taichung City, 41262 Taiwan

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1. SAFETY NOTES

A. General Information

Thank you for choosing this Charder Medical device. It is designed to be easy and straightforward to operate, but if you encounter any problems not addressed in this manual, please contact your local Charder service partner. Before beginning operation of the device, please read this user manual carefully, and keep it in a safe place for reference. It contains important instructions regarding installation, proper usage, and maintenance.

Intended Purpose

This medical device is designed to estimate body composition in professional settings in accordance with national regulations. The device measures the patient's weight and bioelectrical impedance measurements using foot and hand touch electrodes, combining them with input data (ex: age, gender, height) to estimate:

Skeletal Muscle Mass, Extracellular Water (ECW), Intracellular Water (ICW), Total Body Water (TBW), ECW/TBW, Body Fat, Percent Body Fat (PBF), Metabolic Rates (Basal Metabolic Rate, Total Energy Expenditure), Segmental Lean Mass, Segmental Fat Mass, Visceral Fat Area (VFA), Visceral Fat Level, Body Type Analysis, Weight Control, Fat Control, Muscle Control, Body Balance, Health Score, Fat Mass Index (FMI), Fat-Free Mass (FFM), Fat-Free Mass Index (FFMI), Skeletal Muscle Index (SMI), Appendicular Skeletal Muscle Index (ASMI), Grip Strength, Protein, Minerals, Soft Lean Mass, Waist-Hip Ratio, Waist Circumference, Body Cell Mass, Arm Circumference, Arm Muscle Circumference, Subcutaneous Fat, Bioelectrical Impedance Vector Analysis (BIVA), Waist-Height Ratio, Growth Chart, Growth History, Evaluation & Recommendations, Core Muscle, Abdominal Muscle, Psoas Major, Erector Spinae, Quadratus Lumborum, Fitness Score

The device is not a diagnostic device. Results should be used as part of a broader comprehensive assessment.

Caution

Usage of Results

- The MA801 is not a diagnostic device. Results should be interpreted with assistance from a professional.
- BIA results are calculated based on impedance values validated with representative population studies and statistical analysis. As such, the technique is best suited for tracking progress for an individual over a period of time, or for categorizing large groups of people, rather than used as a one-time analysis. Accuracy of results is highly dependent on proper measurement procedure.

1. SAFETY NOTES

Clinical Benefit

The device is used for body measurement/estimation. The measurement results can be used in such a wide variety of applications that it may not be practical or beneficial to narrowly define the associated clinical benefits of receiving such results. Therefore, the benefit of the device is that it is able to perform its intended (measurement/estimation) function. A list of potential applications for key measurement outputs includes but is not limited to:

Result Category	Example Result	Example Application
Fat	Whole-body Fat, Segmental Body Fat, Abdominal Fat	Obesity: evaluating risk of obesity-related diseases
Water	Total Body Water (TBW), Extracellular Water (ECW), Intracellular Water (ICW), Edema Index (ECW/TBW Ratio)	Peritoneal Dialysis: assessment of change in water balance before and after treatment
Muscle	Whole-body Muscle, Segmental Muscle, Skeletal Muscle, Fat-Free Mass, Muscle Quality (Estimated Grip Strength)	Sarcopenia: evaluating muscle mass and effectiveness to identify malnutrition or training/rehabilitation needs
Cellular Analysis	Bioelectrical Impedance Vector Analysis (BIVA), Phase Angle	Health Evaluation: assessing comparative cellular status and observing body status beyond muscle/fat/water
Metabolism	Basal Metabolic Rate (BMR), Total Energy Expenditure (TEE)	Nutrition: determining suitable level of daily caloric consumption based on goals and projected expenditure

Intended medical indications/contraindications

Measurement: patient's body composition and body weight.

Contraindications

Measurement should not be conducted on patients with electronic medical implants (ex: cardiac pacemakers)

Intended user profile

- (a) At least 20 years old
- (b) Minimum knowledge:
 - To be able to read at a high-school level and understand Arabic numerals (e.g. 1, 2, 3, 4...)
 - Basic hygiene knowledge
 - Trained in device's operation
 - Read the instruction manual
- (c) Language
 - Able to read the language of instruction manual and on-screen instructions
- (d) Qualifications
 - No special certifications or qualifications required

Intended patient profile

- (a) Age: 6-85
- (b) Weight: within 300 kg
- (c) Patient Conditions: require measurement of body weight and body composition. Able to stand independently without support.

Residual risk evaluation

- (a) All foreseeable risks have been evaluated and considered acceptable. Generally speaking, the most likely risk caused by incorrect usage of the device is less accurate measurement (or inability to use device to acquire measurement), which does not pose imminent physical risk to patient or user.
- (b) Benefit-risk ratio is considered acceptable. Body composition analyzers are an important option for measuring patients. Usage of device is unlikely to result in harm to user or patient.

Incident Reporting

Any serious incident that has occurred in relation to the device should be reported to the manufacturer, EU representative (if device is used in EU member state), and competent authority of user/subject's member state.

1. SAFETY NOTES

B. Precaution Symbols

 Warning	Identifies the possibility of serious injury or death for the user if the device is mishandled, or safety instructions are not followed.
 Caution	Identifies the possibility of physical injury or device damage if the device is mishandled, or safety instructions are not followed.
	The caution symbol indicates general precautions that should be taken when using the device.

NOTE	Additional information regarding the operating environment, conditions for installation, or special conditions in usage.
	Indicates helpful hints and supplementary information.
	Indicates actions that should not be performed.
Bold	Bold text identifies buttons on the display panel or screen.
	Hazard icon warning against possible electric shock.

1. SAFETY NOTES

Caution: General Handling

- This device is intended for indoor use only.
- Do not place the device on slippery surfaces.
- Ensure all parts are properly locked and tightened before operating the device.
- Device is intended to measure one subject at a time.

Electric Shock

- Do not touch the power supply with wet hands.
- Do not crimp the power cable, and avoid sharp edges.
- Do not overload extension cables connected to the device.
- Route the network and power cable carefully, to avoid tripping.
- Keep the device away from liquids

Caution: Injuries and Infections

- Ensure that subjects do not have wounds or contagious diseases on the palms of their hands or the soles of their feet.
- For hygiene purposes, Charder recommends cleaning the measuring platform after each measurement with a soft cloth and alcohol.
- Ensure that the measuring platform is dry before usage.

Caution: Maintenance

- Please contact your local Charder distributor for regular maintenance and calibration. Regular checking of accuracy is recommended; frequency to be determined by level of use and state of device.

Caution

Preventing Device Damage

- Please contact your local Charder distributor for regular maintenance and calibration.
- This device does not contain any user-maintained parts. All maintenance, technical inspections, and repairs should be conducted by an authorized Charder service partner, using original Charder accessories and spare parts. Charder is not liable for any damages arising from improper maintenance or usage. Dismantlement of the device will void the warranty.
-  Take care to make sure fluids do not enter the device, as they may damage the internal electronics.
- Switch off the device before disconnecting the power supply.
-  Do not place the device in direct sunlight, or in close proximity to an intense heat source. Excessively high temperatures may damage the internal electronics.
-  Strong cleaning agents can damage the measuring platform's surface.
Alcohol wipes can be used to clean the electrodes and weighing platform.
Alcohol-based cleaning solutions should not be used on the touch screen.
- The device has an expected service life of 5 years when correctly handled, serviced, and periodically inspected in accordance with manufacturer's instructions.

C. EMC guidance and manufacturer's declaration

Guidance and manufacturer's declaration-electromagnetic emissions The product is intended for use in the electromagnetic environment specified below. The customer or the user of the product should assure that it is used in such an environment.		
Emission test	Compliance	Electromagnetic environment-guidance
RF emissions CISPR 11	Group 1	The product 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. The product is suitable for use in all establishments other than domestic and those directly connected to a low voltage power supply network which supplies buildings used for domestic purposes.
RF emissions CISPR 11	Class A	
Harmonic emissions IEC 61000-3-2	Class A	
Voltage fluctuations /flicker emissions IEC 61000-3-3	Compliance	

Guidance and manufacturer's declaration-electromagnetic immunity The product is intended for use in the electromagnetic environment specified below. The customer or the user of the product should assure that it is used in such an environment.			
Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment-guidance
Electrostatic discharge (ESD) IEC 61000-4-2	±8 kV contact ±2 kV, ±4 kV, ±8 kV, ±15 kV air	±8 kV contact ±2 kV, ±4 kV, ±8 kV, ±15 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%
Electrical fast transient/burst IEC 61000-4-4	±2kV for power supply lines	±2kV for power supply lines	Mains power quality should be that of a typical commercial or hospital environment.
Surge IEC 61000-4-5	±1kV line(s) to line(s) ±2kV line(s) to earth	±1kV line(s) to line(s) ±2kV line(s) to earth	Mains power quality should be that of a typical commercial or hospital environment.

NOTE 1 At 80 MHz and 800 MHz, 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.

- a Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast 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 product is used exceeds the applicable RF compliance level above, the product should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as re-orienting or relocating the product.
- b Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3V/m.

Recommended separation distance between portable and mobile RF communications equipment and the product

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

Rated maximum output power of transmitter W	Separation distance according to frequency of transmitter m		
	150 kHz to 80 MHz $d = 1,2\sqrt{P}$	80 MHz to 800 MHz $d = 1,2\sqrt{P}$	800 MHz to 2,7 GHz $d = 2,3\sqrt{P}$
0,01	0,12	0,12	0,23
0,1	0,38	0,38	0,73
1	1,2	1,2	2,3
10	3,8	3,8	7,3
100	12	12	23

For transmitters rated at a maximum output power not listed above, the recommended separation distance d in metres (m) can be estimated using the equation applicable to the frequency of the transmitter, where p is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer.

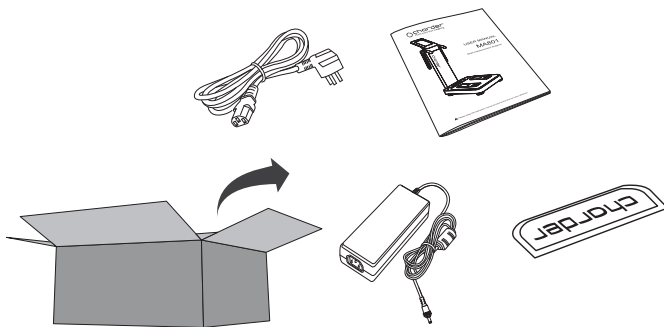
NOTE 1 At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies.

NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

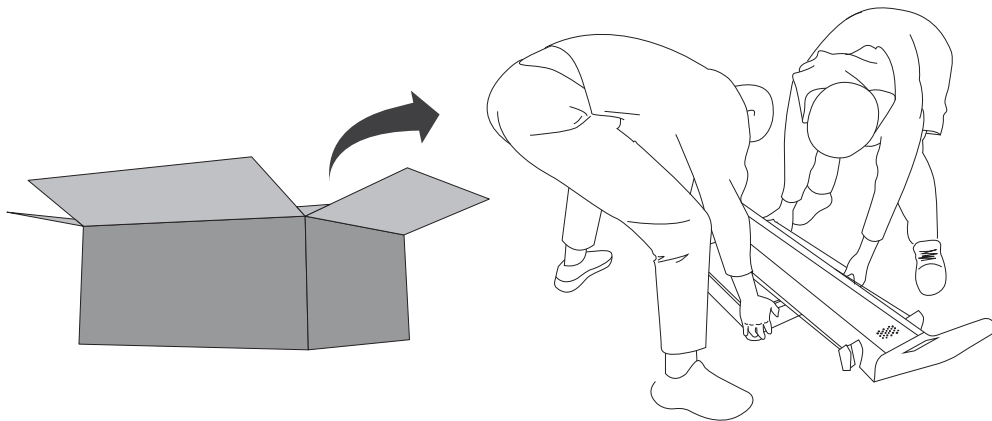
2. UNPACKING DEVICE

A. Unpacking

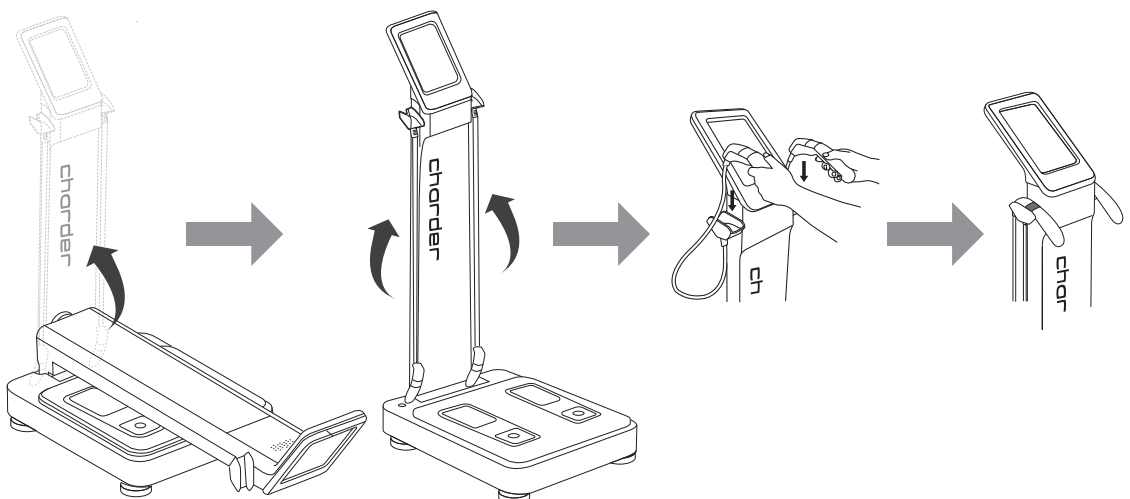
1. Open box and remove accessories and packing foam.



⚠ NOTE: At least two people are needed to remove the MA801 from its box

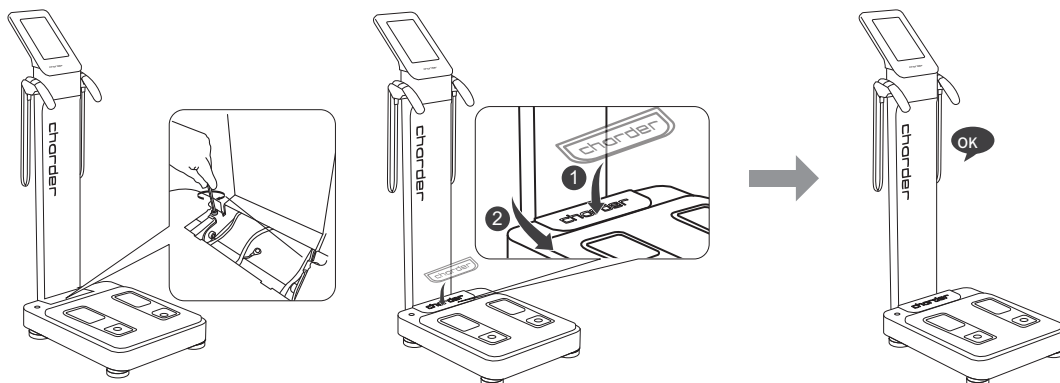


2. Raise display column up in an upright position, and place electrodes in holders.

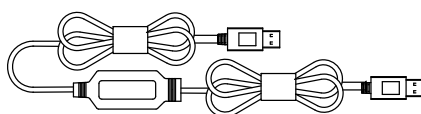
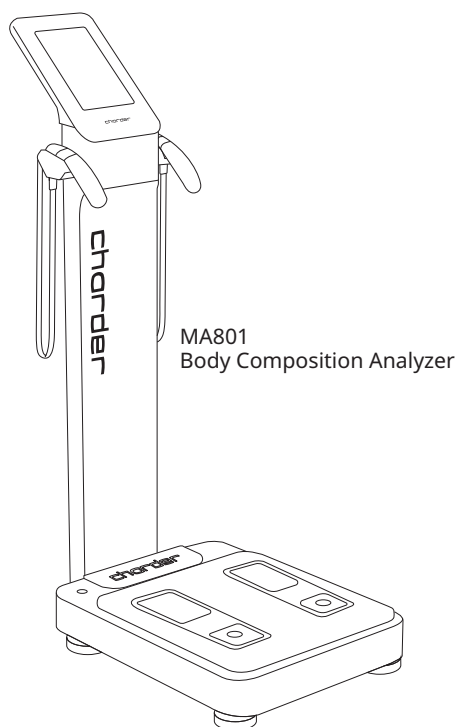


2. UNPACKING DEVICE

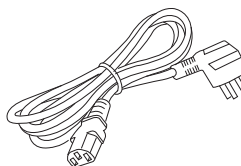
3. Insert two securing screws in joint position. Tighten screws using M6 hex driver.
4. After screws are secure, slide joint cover into place (a clicking noise will be heard when locked).



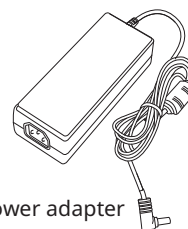
B. Contents



UA-010 USB Cable



Power cord



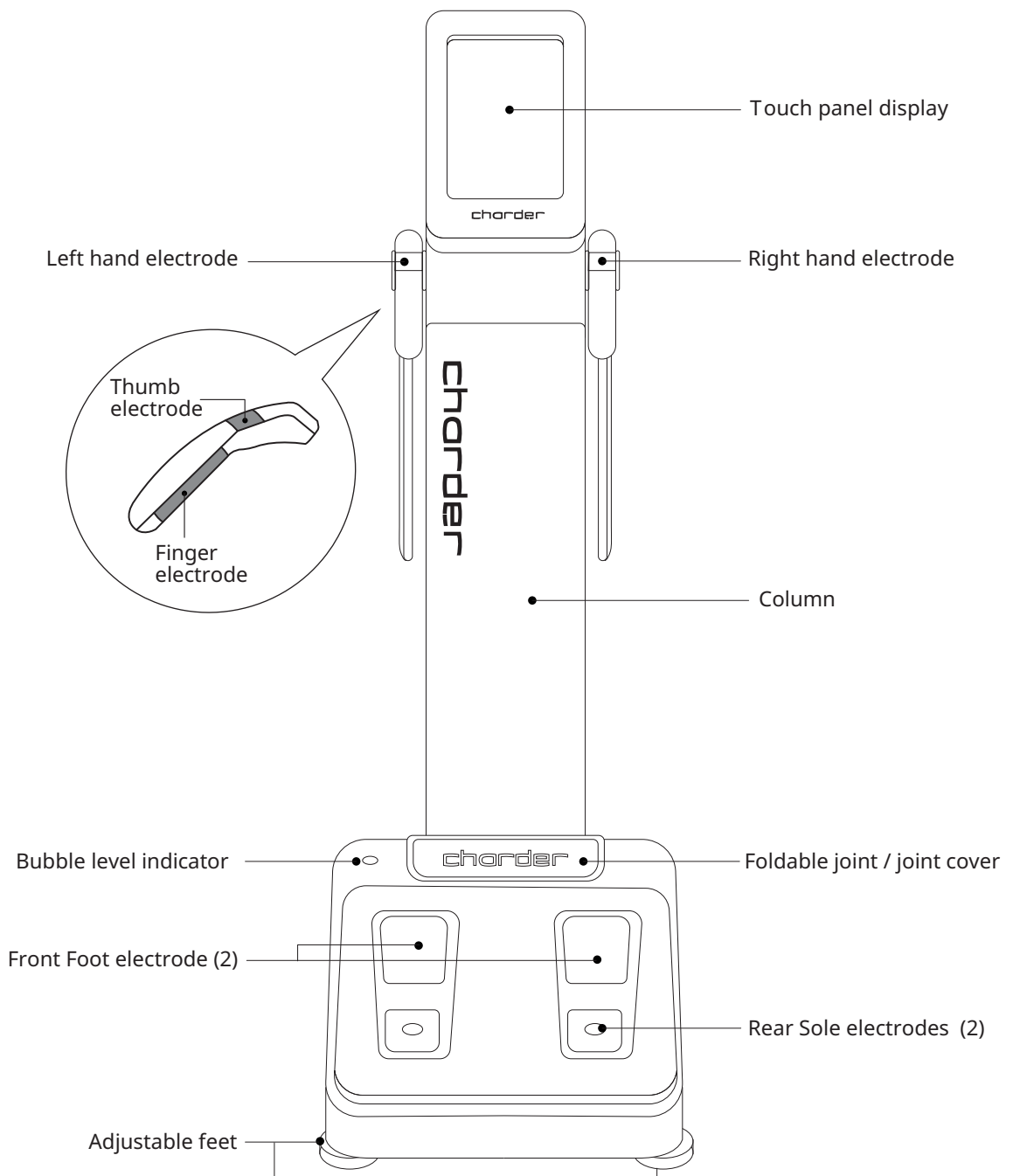
Power adapter



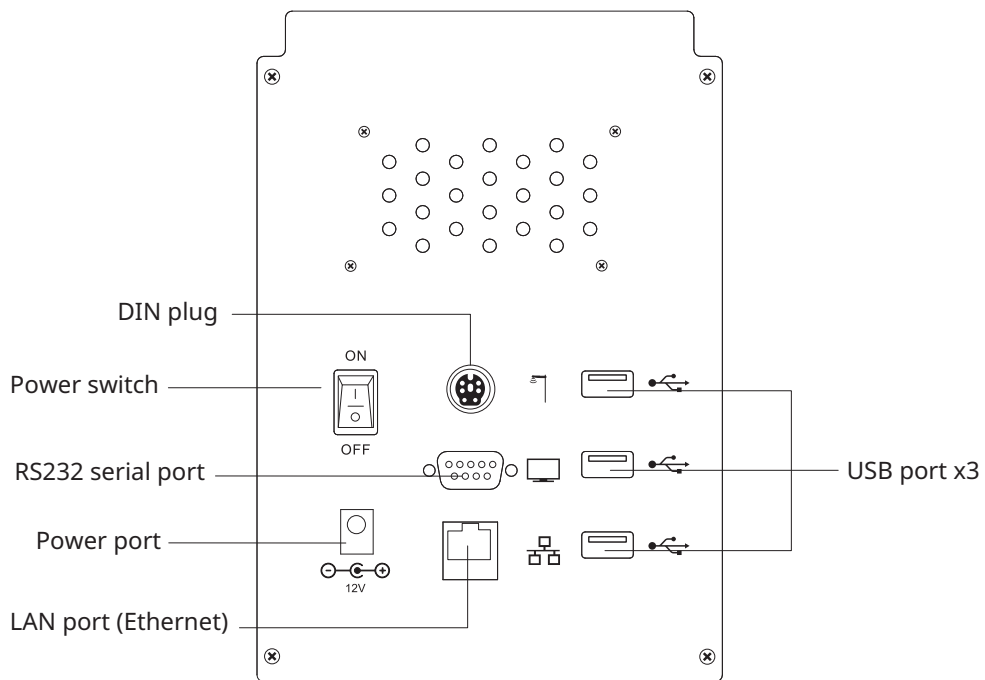
User manual

2. UNPACKING DEVICE

C. Device Parts



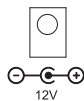
2. UNPACKING DEVICE



USB port: Connect device to a printer, flash drive, or PC



LAN port: Connect device to a network



Power port: Connect device to mains power



Power switch: Turn device on/off



DIN plug: Connect device to height stadiometer



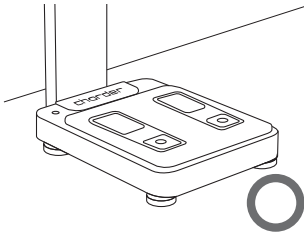
RS232 serial port: Connect device to PC

3. INSTALLATION

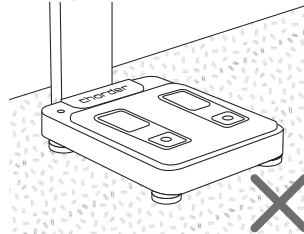
A. Environment

The device should be placed on a flat and hard surface. Usage on carpet may result in static electricity, which may damage the equipment and cause inaccuracies in measurement.

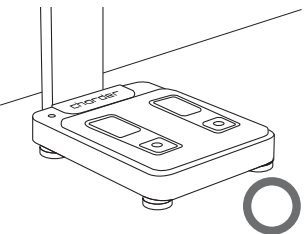
placed on hard surface



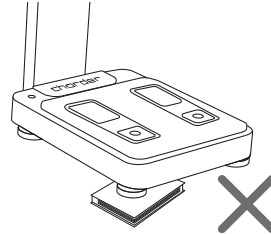
placed on carpet



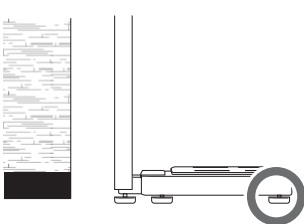
flat surface



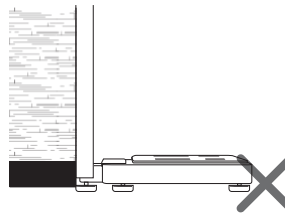
uneven surface



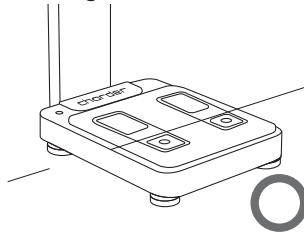
keep space between the wall



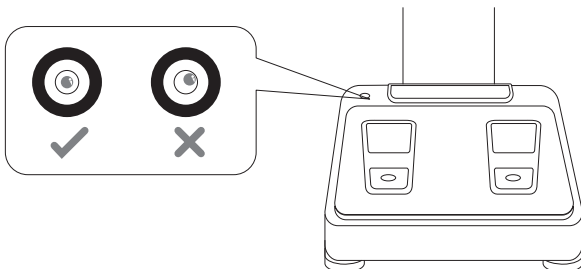
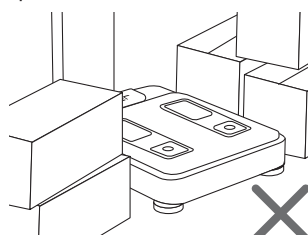
placed against the wall



clear surroundings



objects placed around the device



For accurate weight measurement, device should be level.

Level the device by rotating adjustment feet under platform.

(counter-clockwise to lower, clockwise to raise)

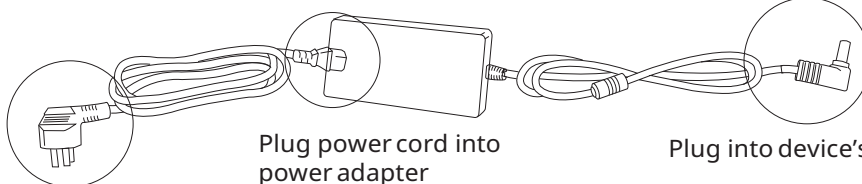
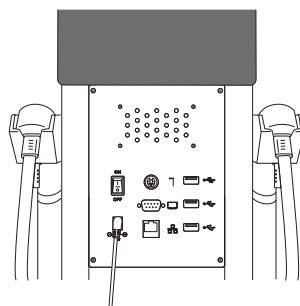
3. INSTALLATION

B. Setup

-  Only use the specified adapter provided by Charder. Using other adapters may result in malfunction or inaccurate readings.

If the device is not plugged into a grounded outlet, electric surges may cause damage, or test results may be affected.

Electrical interference and instability may cause error in test results. Avoid installing the device near products that may create electrical interference.



Plug into the mains

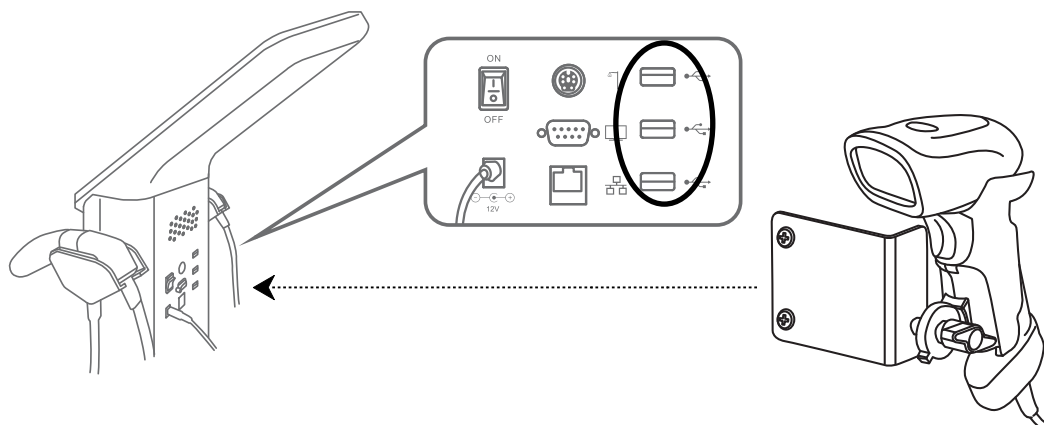
Plug power cord into power adapter

Plug into device's power port

C. Optional Accessories

Connecting to scanner

1. Plug scanner's USB Cable into USB port on device
2. Turn on device



3. INSTALLATION

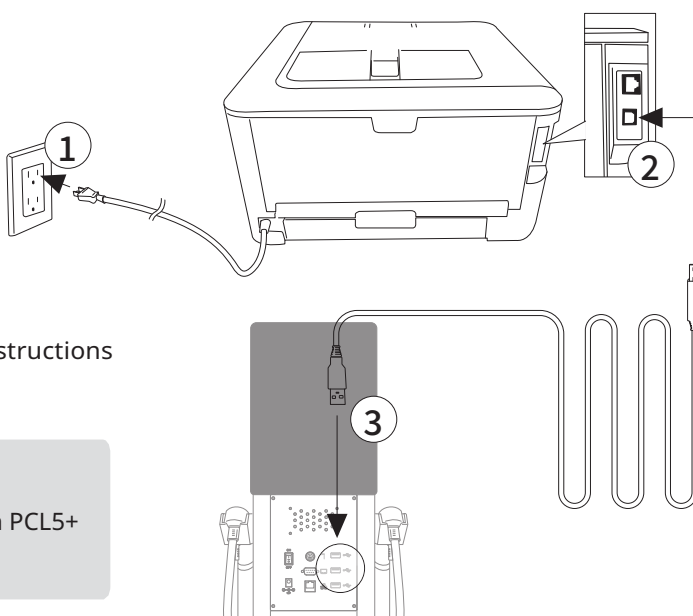
Connecting to printer

1. Plug printer into mains power
2. Plug printer USB cable into printer
3. Plug printer USB cable into device
4. Turn on printer
5. Turn on device
6. Connect printer in accordance to instructions
(p.33 Printer Settings)



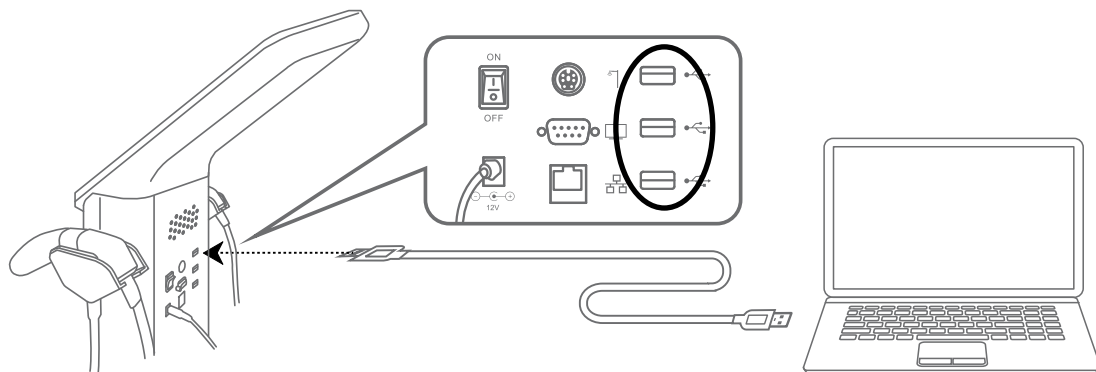
COMPATIBILITY:

Device is compatible with printers with PCL5+ driver compatibility only.



Connecting to software

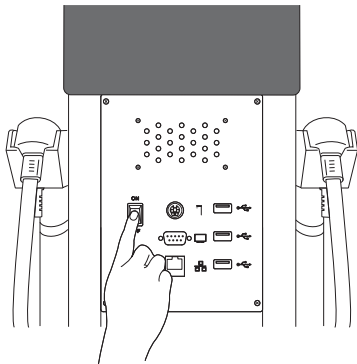
1. Plug UA-010 USB Cable into USB ports on device and PC



2. Connect software in accordance to instructions
(p.37 Data Transfer)

3. INSTALLATION

D. Startup

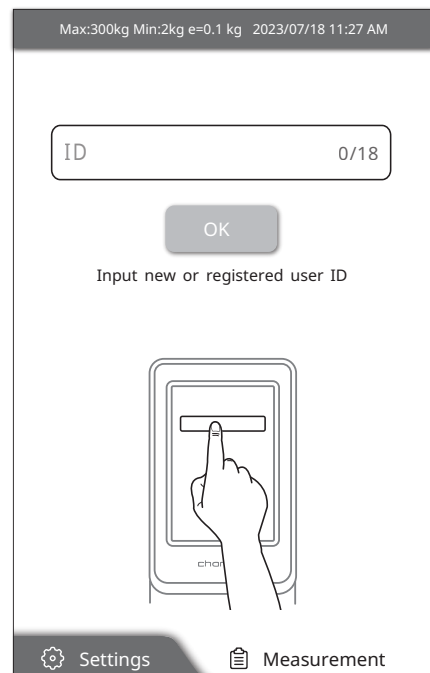
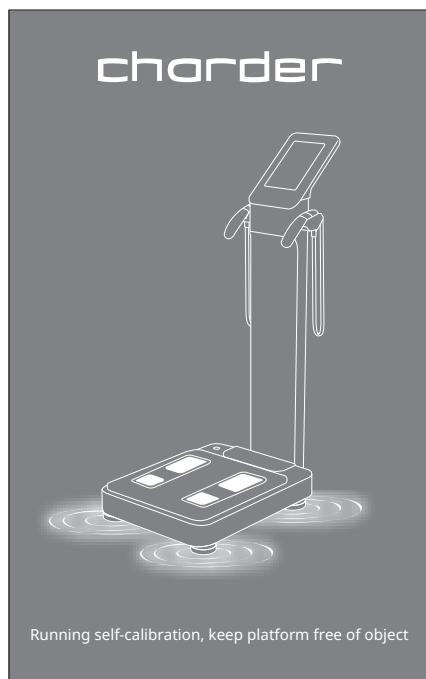


After all accessories have been connected (optional), turn power switch ON to turn on device.

NOTE: After the device has been turned on, you should hear 3 beeps.

Device will conduct self-calibration when turning on. The measurement platform should be kept free of objects. Do not stand on platform, or place objects under the device.

When system self-calibration is complete, the device is ready for use.
You will see the start screen below.



4. BEFORE MEASUREMENT

Warning

Bioelectrical Impedance Analysis impedance measurements should not be used by subjects with the embedded electronic medical devices.

Measurement Guidelines

For best results, Body Composition Analysis should be conducted under specific controlled conditions. Inconsistent measuring conditions will affect the accuracy and validity of BIA results, and interpretation of body composition. The information below regarding the effect of various factors on measurement results is largely sourced from related research by Kushner et al¹.

Before measurement, please take note of the following:

(1) Do not exercise or perform strenuous physical tasks before measurement.

Because BIA analyzes electrical impedance in the body, activities that might affect impedance (e.g. sweating, dehydration, increased blood circulation) such as a heavy workout may cause measurement results to be temporarily less accurate.

(2) Do not eat or drink 2-3 hours before measurement.

Eating and drinking will increase body weight temporarily, and thus affect analysis results. For most accurate results, BIA measurements should be conducted in a fasting state (e.g. before breakfast)².

(3) Do not shower or bathe directly before measurement.

Perspiration can result in a temporary change in body composition measurements, as the accuracy of BIA depends largely upon interpretation of measured impedance values, which are affected greatly by hydration levels.

(4) Perform the measurement under normal temperature conditions (24-28°C)

Extreme temperatures (both hot and cold) can result in temporary physiological changes. For best results, measurements should be conducted in "room temperature", in an environment between 24-28°C / 75-82 °F.

(5) Remove shoes and socks before measurement.

Shoes and socks will interfere with the electric current, making measurement inaccurate or in some cases, impossible.

(6) Avoid physical contact with other people during measurement.

Because BIA measures the impedance encountered as the electric current travels through the subject's body, if another individual is touching the subject, the electric current may pass through the other individual, causing inaccuracy in measurement results.

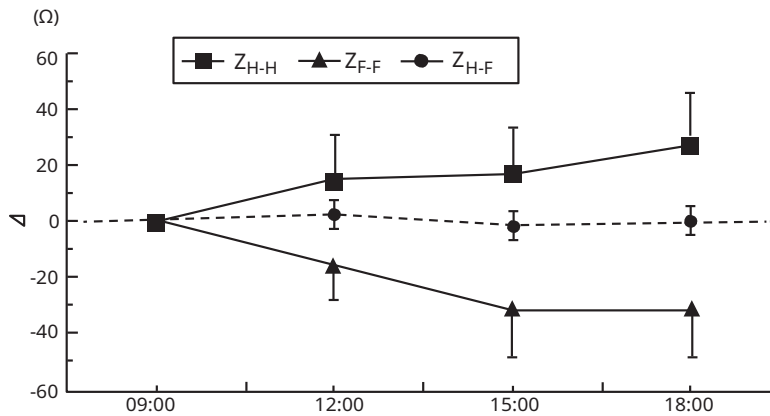
1. Kushner RF, *Clinical characteristics influencing bioelectrical impedance analysis measurements*, 1996

2. R Gallagher, M & Walker, Karen & O'Dea, K. *The influence of a breakfast meal on the assessment of body composition using bioelectrical impedance*. *European journal of clinical nutrition*. 52. 94-7. 10.1038/sj.ejcn.1600520., 1998.

4. BEFORE MEASUREMENT

(7) Perform the measurement in the morning.

As a general rule, BIA measurements should be performed in the morning to minimize the influence of activity throughout the day on measurements.



The chart above depicts changes in segmental impedance throughout the day, as reported by Oshima et al. (NOTE: Z_{H-H} , Z_{F-F} , and Z_{H-F} refer to Hand-to-Hand, Foot-to-Foot, and Hand-to-Foot respectively.)³

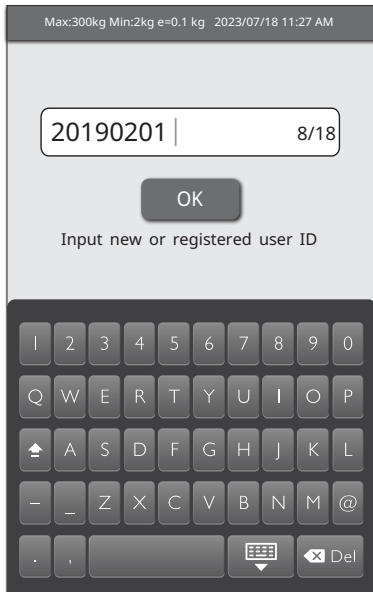
3. Oshima Y & Shiga T. Within-day variability of whole-body and segmental bioelectrical impedance in a standing position, *European Journal of Clinical Nutrition* 2006, 60, 938-941

5. MEASURING INSTRUCTIONS

A. Creating / Selecting User

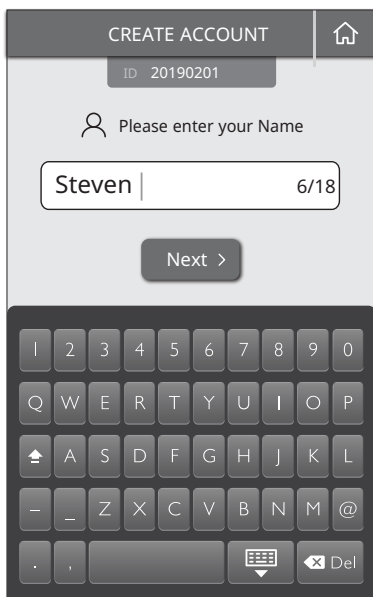
1. Input new or previously registered ID

Press **OK** to proceed. (If ID already exists, user will be brought directly to confirmation screen for Verification) (Step 3)



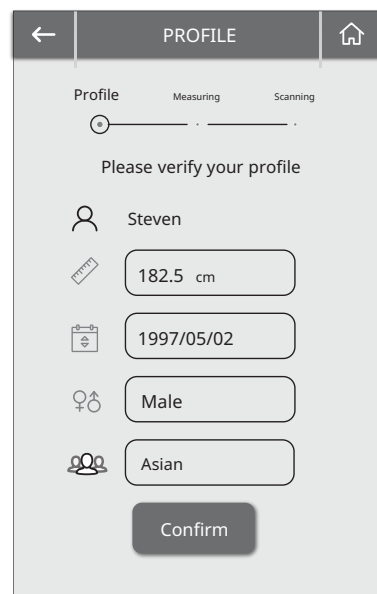
2. Enter user information

Information can be entered **using touchscreen**.
(Name, Height, Birthday, Gender, Body Type, Ethnicity)
After input/selection, press **Next>** to proceed.



3. Verify profile

If changes are needed, please press on the information to be edited. Once all Information is correct, press **Confirm**.



5. MEASURING INSTRUCTIONS

B. Measurement

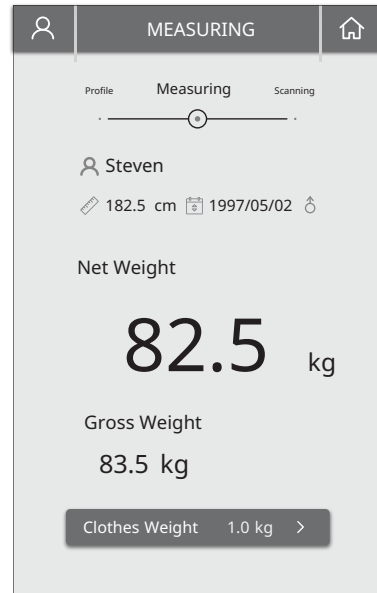
1. Weight measurement

After profile has been verified, subject should step onto the device for weight measurement.

Avoid moving or speaking during measurement. Once weight measurement has stabilized, the weight measurement result (**bold numbers**) will flash several times on the screen.

Clothing weight deduction (optional):

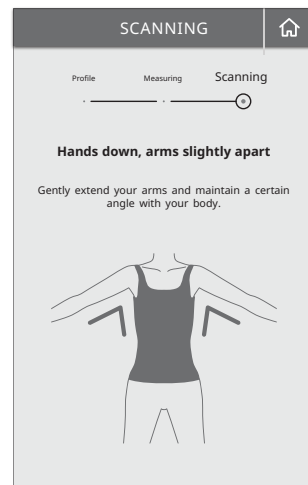
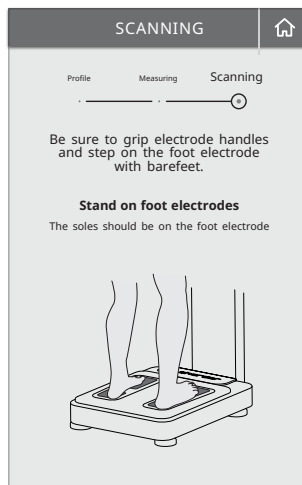
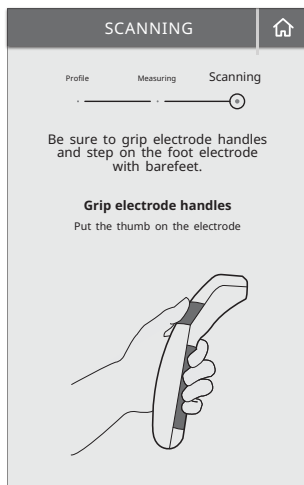
Press the **Clothes Weight** button and set deduction amount.



2. Pre-test check

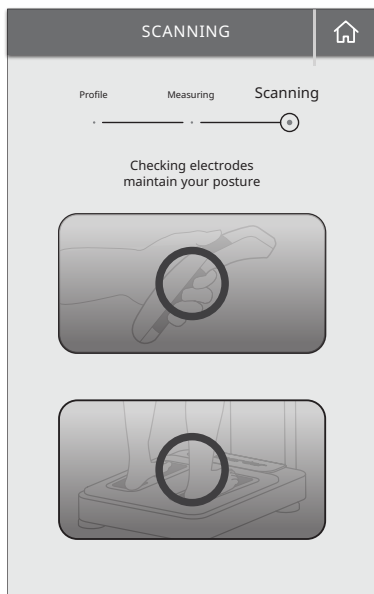
After weight measurement is complete, device will direct subject to assume correct posture.

(Refer to “Chapter 5.C. Measurement Posture”)



5. MEASURING INSTRUCTIONS

Device will confirm if electrodes are in proper contact. Measurement will not begin if proper contact has not been made.



3. Bioelectrical impedance measurement

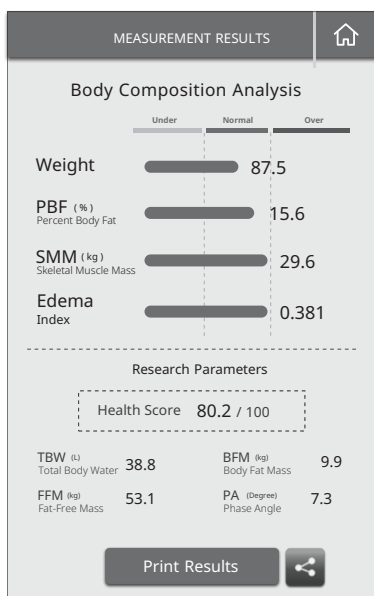
The device will begin scanning the subject to analyze body composition.



After measurement is completed, place hand electrodes back into holders. Basic results will be displayed on the LCD screen.

Press "Print Results" to print out Result Sheet if printer is connected.

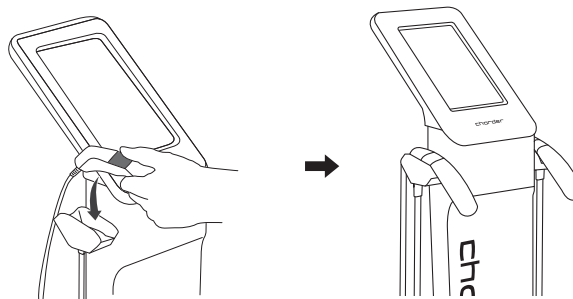
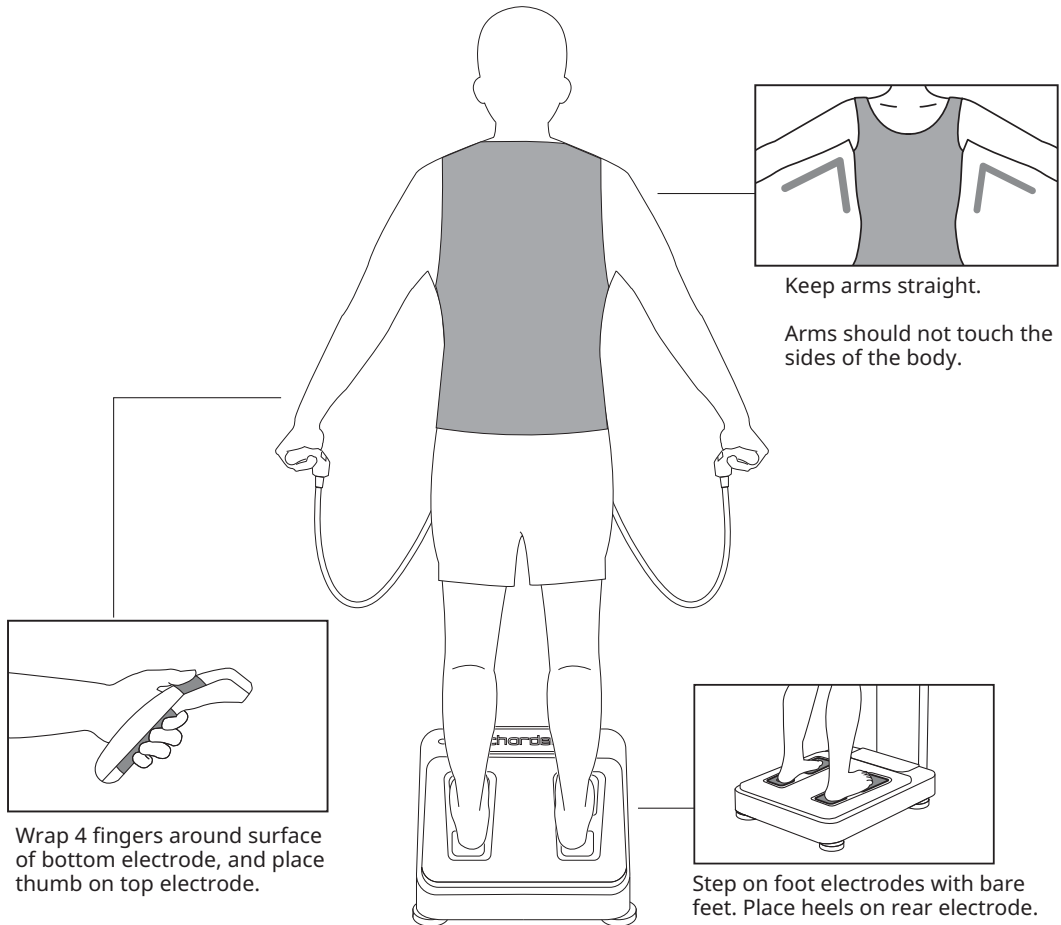
Press "Share" icon to display QR code for scanning by app.



5. MEASURING INSTRUCTIONS

C. Measurement Posture

For accurate results, proper posture is required. Device will automatically begin measurement once correct electrode contact is confirmed.

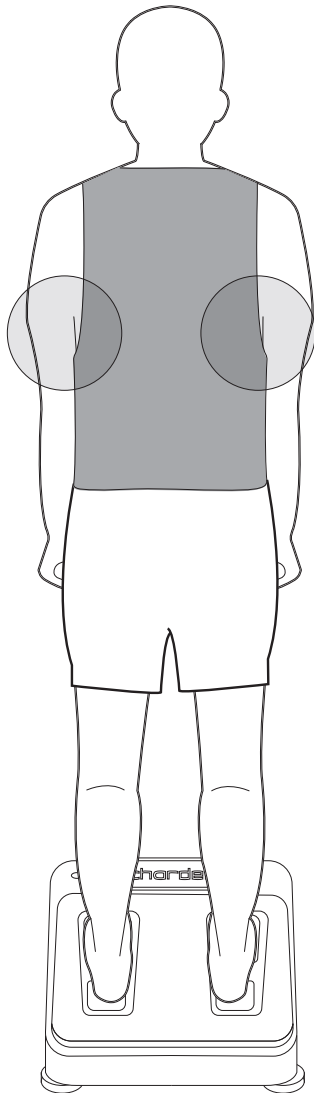


Hand electrodes should be placed back into holders after measurement is completed.

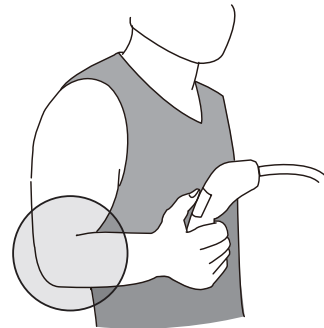
5. MEASURING INSTRUCTIONS

NOTE:

Examples of incorrect posture during measurement



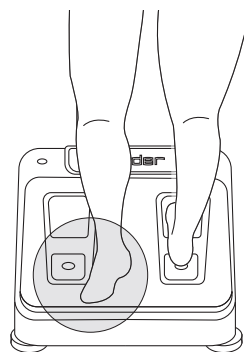
Arms pressed against body



Arms bent



Movement during measurement

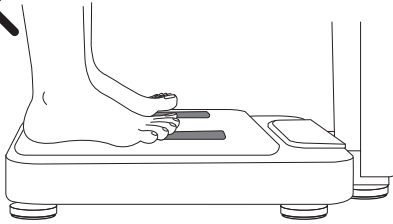


Leaving platform during measurement

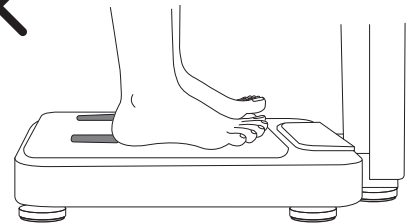
5. MEASURING INSTRUCTIONS



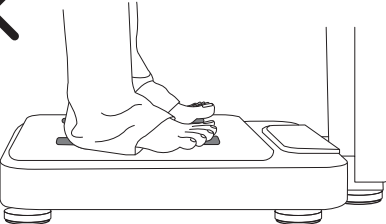
Examples of incorrect foot electrode contact



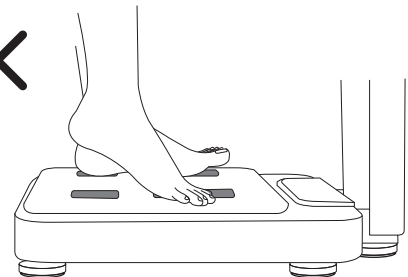
Feet are not in full contact with forward electrodes.



Feet are not in full contact with rear electrodes



Heels are obstructed from full contact with rear electrodes due to clothing.

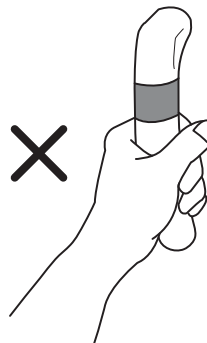
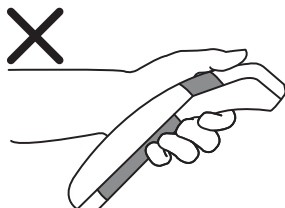
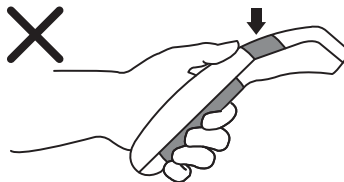


Feet are not in full contact with rear electrodes



Examples of incorrect hand electrode contact

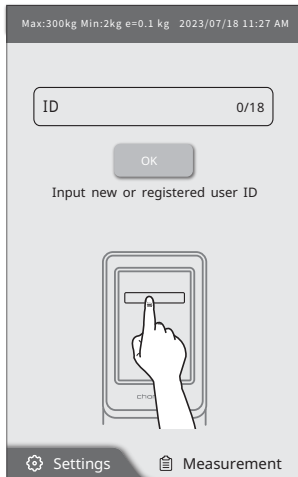
Thumb is not in contact with thumb electrode.



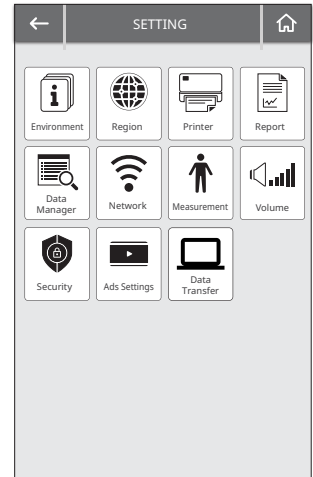
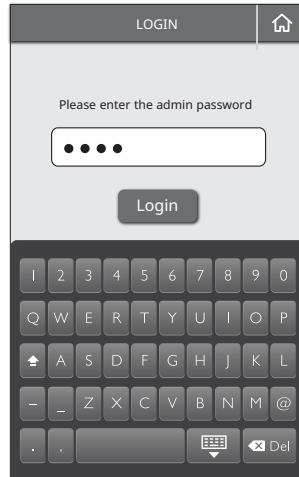
6. SETTINGS

Entering Settings

1. Press **Settings** button on screen



2. Input password [default password: 0000] and press **Login** to enter Settings .



Environment: Device Information (Storage, Network, Software/Hardware Info)



Region: Date/Time, Timezone, Date Format, Time Format, System Language



Printer: Printer Setup, Paper Selection, Paper Alignment, Test Print



Report: Result Sheet Selection, Adjustable Standards, Custom Result Sheet Logo



Data manager: Search / Delete / Export / Print Measurement Data



Network: Manage Wi-Fi / Ethernet functions



Measurement: Default Ethnicity / Body Type, Unit (Metric / Imperial), Clothing Weight Adjustment



Volume: Set system volume



Security: Set and change device password (used for entering Settings menu)



Ads Settings: Adjust optional autoplay video settings



Data Transfer: Data transfer method

6. SETTINGS



Environment: Device Information (Storage, Network, Software/Hardware Info)

This information should be provided when troubleshooting.

← ENVIRONMENT →

Storage

Free: 97.72%
Used: 2.28%

Network

Wi-Fi, Connected
IP Address: 192.168.50.197
Wi-Fi MAC Address: 40:9F:38:4E:C8:C3
Ethernet MAC Address: 88:d7:F6:C2:EB:6B

Software Version

1.0.77

Hardware Version

Model Name: MA801
Model S/N: T25000124
OS: 1.0_161e1492081b1a6e
M3 Version: V00.94
Scale: 1.6_2038899999
VB: 1.7
Print: 12.18.0
Event Count: 1

Data Manager Storage

Free: 99934



Region: Date/Time, Timezone, Date Format, Time Format, System Language

← REGION →

Date Time

2025.02.25, 16:11

Edit Date Time

Timezone

(GMT+8:00) Taipei Standard Time

Date Format

☒ YYYY.MM.DD ☐ DD.MM.YYYY ☐ MM.DD.YYYY

Time Format

☐ 12hr ☒ 24hr

Language

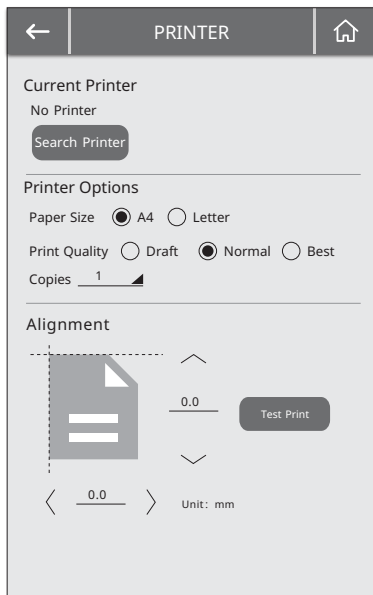
☒ English ☐ 正體中文 ☐ 簡體中文 ☐ Ελληνικά
☐ Türkçe ☐ Français ☐ Español ☐ Polski
☐ Deutsch ☐ Italiano ☐ 日本語

6. SETTINGS



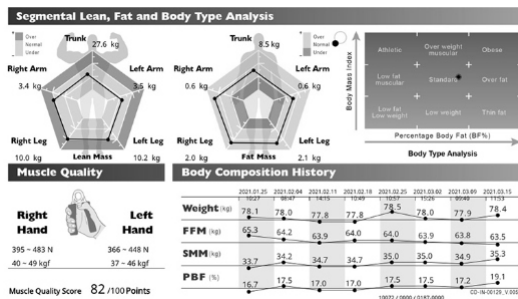
Printer: Printer Setup, Paper Selection, Paper Alignment, Test Print

Press **Search Printer** to pair with printer currently connected to device.

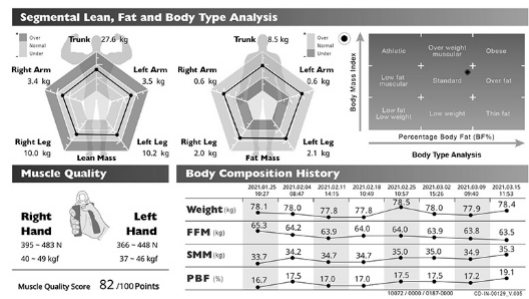


Adjust print alignment

Use the arrow buttons to adjust print position. To move the alignment dot up, press "up" (the same applies for all other directions). Each press will move print position by 0.1 mm. Once positioning dot is centered, paper is fully aligned.



Offset



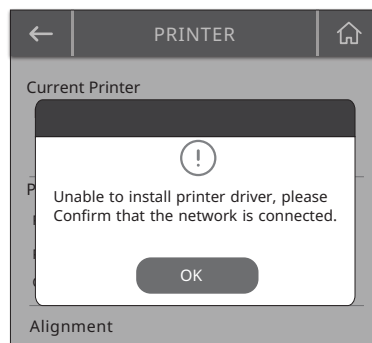
Correctly aligned



COMPATIBILITY:

Device is compatible with printers with PCL5+ driver compatibility only.

If error message appears when printer drivers are being installed, please turn on Wi-Fi (see "Network") and connect to the internet. After doing so, press **Search Printer** again. Device will automatically download and install printer drivers.



6. SETTINGS



Report: Result Sheet Selection, Adjustable Standards, Custom Result Sheet Logo

Default Result Sheet

(If applicable) Choose Default Result Sheet to print.

Child Result Sheet

(If applicable) Leave “Child Age Range” box unchecked to use Default Result Sheet for all ages.

Report Type

Select whether to print result sheet using report paper or blank paper.

Report Paper: select when using Charder Result sheets

Blank Paper: select when using blank paper

BMI / Body Fat / Child Growth Standard

Select preferred normal range most applicable to usage requirements.

Company Logo

To display custom logo on Result Sheet, save image into USB drive, and plug USB drive into device.

Press **Select Image**, choose image from USB drive, and press OK to confirm.



Supported image formats:

JPG, PNG, BMP (dimensions: 1982x316 pixels)

Alternatively, select **Text** can be input text.

6. SETTINGS



Data manager: Search / Delete / Export / Print Measurement Data

Exporting Results

Insert applicable device (ex: Printer / USB drive) to save / export data.

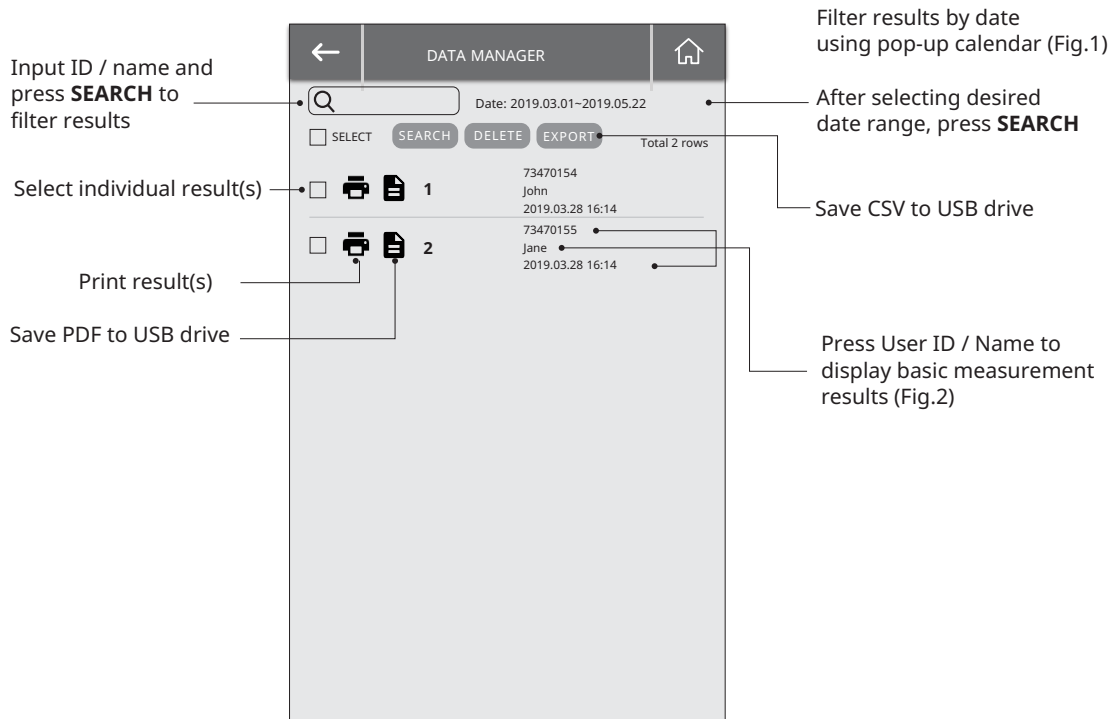


Fig 1: Pop-up calendar

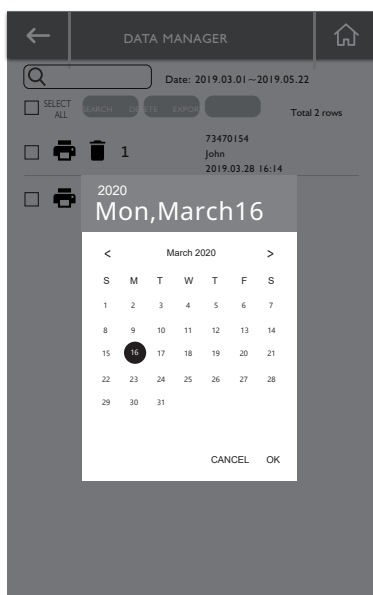
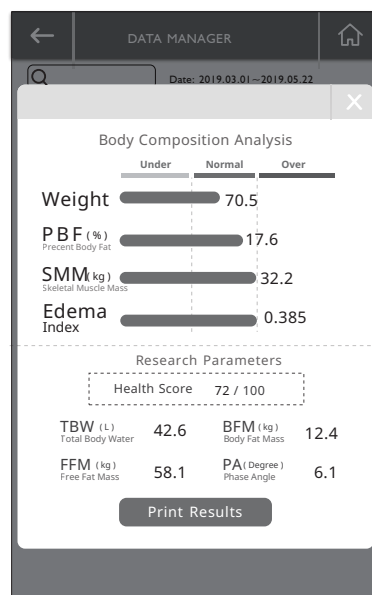


Fig 2: Basic Body Composition Analysis Results



6. SETTINGS



Network: Manage Wi-Fi / Ethernet functions



Measurement: Default Ethnicity / Body Type, Unit (Metric / Imperial), Clothing Weight Adjustment



Volume: Set system volume



Security: Set device password (used for entering Settings menu)

6. SETTINGS



Ads Settings: Adjust optional autoplay video settings

To play video after device has remained idle, turn Ads Settings Mode **On**.

Uploading video into device

To play custom video on device, save video into USB drive, And plug USB drive into device.

Press **Select Media**, choose video from USB drive, and press OK to confirm.

If video does not begin playing after designated amount of time, please confirm that video meets file conditions (MP4 format, 800 x 1280 pixel, less than 200 MB).



Data Transfer: Data transfer method

Connect to PC software

1. Select **PC transfer** in "Data transfer method".
2. Select **CSV** in "transfer file format".
3. Return device to home screen.
4. Confirm UA-010 USB cable is connected to device and PC.

(for additional details, please consult PC Software user manual)

Connect to wireless server

1. Select **Network transfer** in "Data transfer method".
2. Input API key and End user URL according to server settings.

(for additional details, please contact distributor)

7. FREQUENTLY ASKED QUESTIONS

A. Common Problems

Measurement result is not sent to PC software.

1. Confirm that UA-010 cable is plugged into device and PC.
2. Check if PC software version is compatible with device version.
3. Confirm that measurement was initiated on PC software, not device (depending on software used)

Measurement does not complete

1. Read error message and follow instructions.
2. Subject may have let go of hand electrodes before measurement completion.
3. Subject may have stepped off of platform before measurement completion.
4. Subject's skin may be too dry / calloused. Wet hands/feet with tissue and try again.
5. Ensure that proper measurement posture was followed.

Printing Error

1. Confirm that device and printer are connected using printer's USB cable.
2. Confirm that printer has been correctly installed and printer drivers have been downloaded.
3. Restart printer, wait until printer is ready, and try again.
4. Confirm that printer has PCL5+ compatibility.

B. About Measurement

Are there subjects that should not be measured using this device?

Subjects with implanted electronic medical devices (ex: pacemakers) should not use devices utilizing Bioelectrical Impedance Analysis (BIA), including this device.

A low level electric current will be sent through the body during measurement, which could interfere with the implanted device.

Subjects with metal implants can conduct measurements safely, but measurement results may be affected by metallic material.

Is BIA measurement harmful to the body?

Aside from users with implanted medical device, no scientific research has been published cautioning against bioelectrical impedance analysis. Charder's devices are certified to various national medical standards to ensure safety and effectiveness.

How often should a measurement be conducted?

Changes in body composition due to diet, training, and other activity are not immediate. For effective Tracking of progress, measuring every 2-4 weeks is recommended.

Can jewelry, watches, or other metallic ornaments be worn during measurement?

Metal objects may interfere with the electrical current used during testing, affecting measurement accuracy. In addition, heavy clothing or accessories (if weight is not deducted) will affect weight results, which in turn affects body composition results.

8. SPECIFICATIONS

Measurement method	Multi-frequency Bioelectrical Impedance Analysis
Electrodes	Eight electrodes
Frequency	Five frequencies
Frequency range	5 kHz, 20 kHz, 50 kHz, 100 kHz, 250 kHz
Display	1280 x 800 pixels, 10.1 inch Wide color LCD
Capacity	300 kg
Graduation	0.1 kg
Accuracy	Impedance $\pm 3\%$
Applicable Age	6 ~ 85 years old
Input device	Touch screen
Output device	USB x 3, RS232 x1 Note: Device should be connected to network by qualified distributors only.
Transmission device	WiFi x 1, RJ45 Ethernet x 1, USB x 3, RS232C x1, Bluetooth x 1 Note: Device should be connected to network by qualified distributors only.
Dimensions	875 (L) x 463 (W) x 1205 (H) mm
Weight	About 31 kg
Measuring time	Less than 45 secs
Outputs	Weight, Body Mass Index (BMI), Skeletal Muscle Mass, Extracellular Water (ECW), Intracellular Water (ICW), Total Body Water (TBW), ECW/TBW, Body Fat, Percent Body Fat (PBF), Metabolic Rates (Basal Metabolic Rate, Total Energy Expenditure), Segmental Lean Mass, Segmental Fat Mass, Visceral Fat Area (VFA), Visceral Fat Level, Body Type Analysis, Weight Control, Fat Control, Muscle Control, Body Balance, Health Score, Fat-Free Mass (FFM), Fat Mass Index (FMI), Fat-Free Mass Index (FFMI), Skeletal Muscle Index (SMI), Appendicular Skeletal Muscle Index (ASMI), Grip Strength, Protein, Minerals, Soft Lean Mass, Waist-Hip Ratio, Waist Circumference, Body Cell Mass, Arm Circumference, Arm Muscle Circumference, Subcutaneous Fat, Bioelectrical Impedance Vector Analysis (BIVA), Waist-Height Ratio, Growth Chart, Growth History, Evaluation & Recommendations, Impedance, Phase Angle, Segmental Phase Angle, Core Muscle, Abdominal Muscle, Psoas Major, Erector Spinae, Quadratus Lumborum, Fitness Score
Electrode Current	< 500 μ A
Power supply	Manufacturer: FUHUA ELECTRONIC Model: UES65-120500SPA3 Input AC 100~240V, 50/60Hz, 2.0A Output DC 12.0V, 5.0A adapter
Printing device	USB port
Measuring range	100 ~ 950 Ω
Operation Environment	+41 ~ +95°F (+5 ~ +35°C) , 30 ~ 75% RH , 700 hPa ~1060 hPa
Voice guidance	Voice guidance throughout entire measuring process
Results sheet	Medical, Standard, Fitness, Child (A4 or Letter size)

* For purpose of product improvement, specifications are subject to change without prior notice.

Declaration of Conformity

This product has been manufactured in accordance with the harmonized European standards, following the provisions of the below stated directives:

	(EU) 2017/745 Regulation on Medical Devices
	2014/31/EU Non-automatic Weighing Instruments Directive

RoHS Directive 2011/65/EU and Delegated Directive (EU) 2015/863

Radio Equipment Directive 2014/53/EU

Part 15 of the Federal Communications Statement Rules

This device may not cause harmful interference.

This device must accept any interference received, including interference that may cause undesired operation.

Please see separate document showing on sticker of device for above markings.

Authorized EU Representative:



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Bd Général Wahis, 53
B-1030 Brussels
Belgium



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