

InBody270

User's Manual **USA**

Intended Use

The device should be used as an adjunct for clinical decision making and is not intended to diagnose or treat any diseases.

InBody User's Manual for Measurement Guide and Setup

Thank you for purchasing the InBody.
This user's manual describes all the features of the InBody.
Please read before use and keep it in a safe place.
By following the manual instructions,
you will be able to use the InBody more safely and effectively.

Please note the important information below before reading this manual.



Warning

Failure to comply with safety warnings and regulations can cause serious injury or death.



Caution

Failure to comply with safety cautions and regulations can cause injury or property damage.



Avertissement

Le non-respect des consignes de sécurité et des règlements peut causer des blessures graves ou la mort.



Attention

Le non-respect des consignes de sécurité et des règlements peut causer des blessures ou des dommages matériels.

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InBody270

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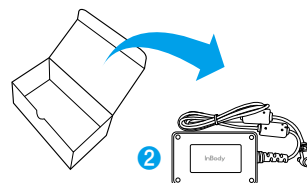
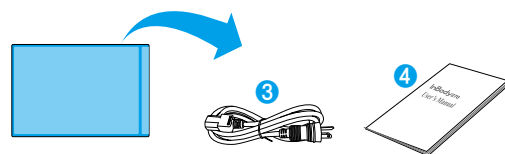
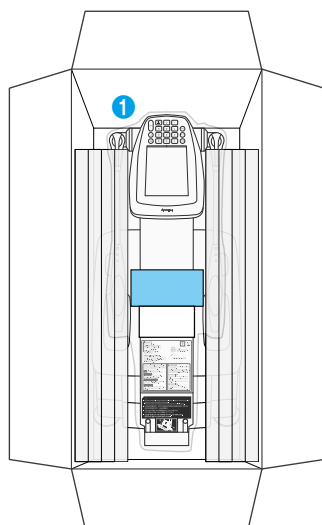
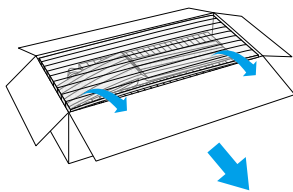
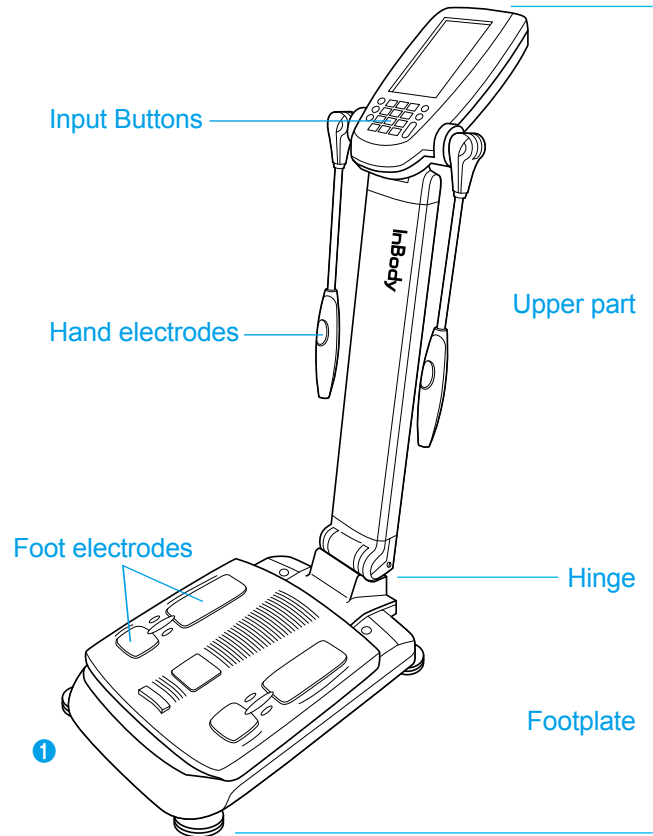
I. InBody270 Installation

A. Product Components

The InBody270 consists of the following components. Please make sure all of the following components are present.

* Please inspect each component of the InBody270 for defects prior to installation.

- ① InBody270
- ② Adapter (DC 12V, 3.4A/3.34A) 1 EA
- ③ Power cord 1 EA
- ④ User's Manual 1 EA



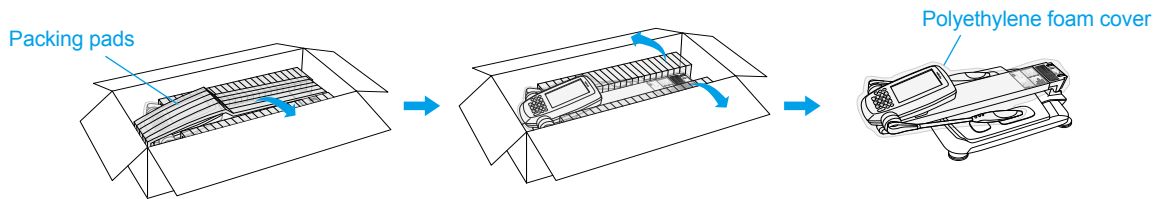
B. Operating Environment

Please make sure that the environment is appropriate for the InBody270 installation. This equipment is designed for indoor use. If installing outdoors, the following requirements must be fulfilled.

Temperature range	50 ~ 104 °F (10 ~ 40 °C)
Relative humidity	30 ~ 75% RH
Atmospheric pressure	70 ~ 106kPa

C. Installation Instructions

1. Open the packing box of the InBody270 and remove the packing pads. Then, take the InBody270 out of the box.



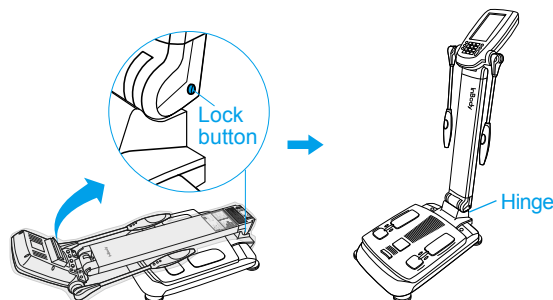
! Caution

- If you have any problems installing your InBody270, please contact InBody for assistance.
- Do not transport the equipment by holding the screen portion or the joints of the hand electrodes.
- Keep the packing materials provided for repacking the equipment in the future. Other waste should be disposed of according to relevant laws and regulations.

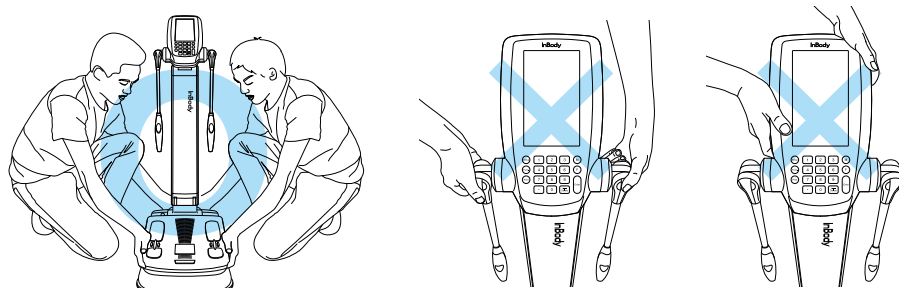
! Attention

- *Si vous avez des problèmes lors de l'installation de votre InBody270, veuillez contacter InBody pour obtenir de l'aide.*
- *Ne transportez pas l'équipement en tenant l'écran ou les articulations des électrodes à main.*
- *Conservez les matériaux d'emballage fournis pour remballer l'équipement si nécessaire. Éliminer les autres déchets conformément aux lois et règlements pertinents.*

2. While holding the upper part lock button, raise the upper part of the InBody270 and remove the polyethylene foam cover.



* Please refer to the following illustrations to properly transport the equipment.



Caution

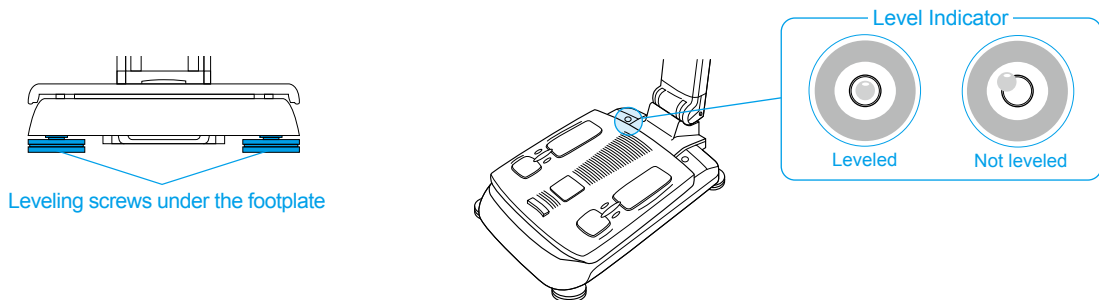
- Using the InBody270 on carpet may cause static electricity, which could damage the equipment. If installing the InBody270 on carpet is unavoidable, please use an antistatic mat.
- Install the InBody270 on a leveled, non-vibrating surface. Installing the equipment on an uneven surface may cause the examinee to fall down. Test results may also be inaccurate.
- Never clean the hand and foot electrodes with liquid spray or detergent directly. The equipment may corrode and/or malfunction if the liquid or detergent leaks inside. Use an InBody Tissue when cleaning the InBody270.

Attention

- *Utiliser l'InBody270 sur un tapis peut générer de l'électricité statique, ce qui pourrait l'endommager. Si vous devez installer l'InBody270 sur un tapis, veuillez utiliser un tapis antistatique.*
- *Installer l'InBody270 sur une surface nivelée, non vibrante. L'installation de l'équipement sur une surface inégale peut provoquer la chute du candidat. Les résultats du test peuvent aussi être inexacts.*
- *Ne nettoyez jamais les électrodes de pieds et de mains directement avec un pulvérisateur de liquide ou un détergent. L'équipement peut se corroder et/ou mal fonctionner s'il présente des fuites de liquide ou de détergent. Utilisez l'InBody Tissue lors du nettoyage de l'InBody270.*

3. Level the InBody270 by rotating the leveling screws under the footplate to the left and right so that the air bubble is centered.

* Leveling the equipment is necessary for accurate measurement of weight. There are a total of 4 leveling screws.



Caution

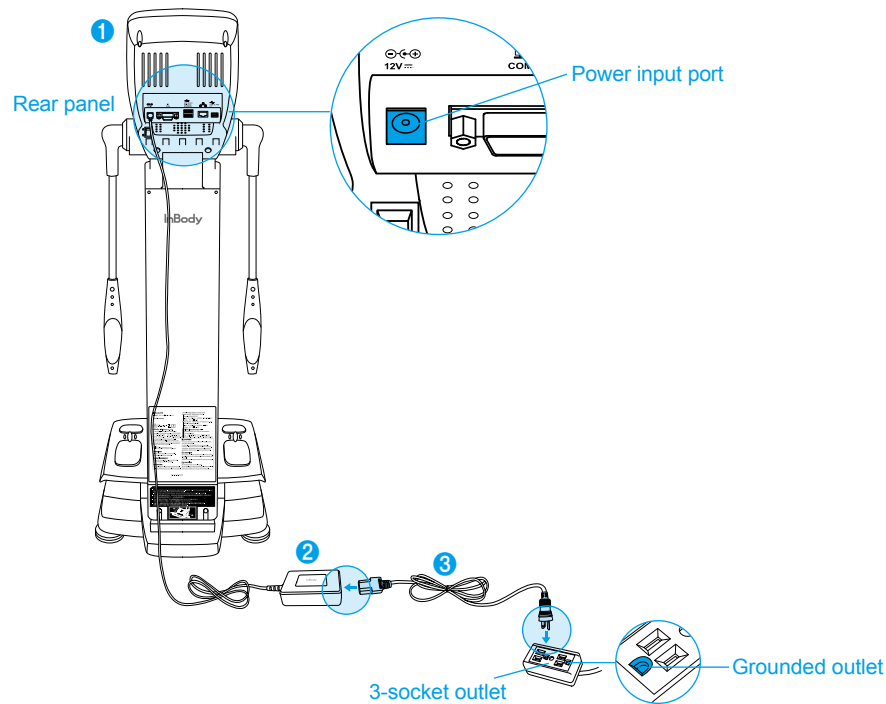
- Avoid injuring your hands when rotating the leveling screws under the footplate.

Attention

- *Faites attention de ne pas vous blesser aux mains lorsque vous serrez les vis de réglage sous le repose-pieds.*

4. Connect the adapter (2) to the power input port, which is located on the rear panel (1). Connect the adapter (2) to the power cord (3). Plug the power cord (3) into a grounded 3-socket outlet.

* The InBody270 can be used in connection with other equipment such as a stadiometer, a blood pressure monitor, data management software called LookinBody, or a barcode reader. For more information, please refer to page 29 in this User's Manual.



Warning

- Do not pull the power cord violently.
- Do not place the InBody270 in a location making it difficult to disconnect the power cord.
- Do not plug in or pull out the power cord with wet hands. There is a risk of an electric shock.
- Always use an outlet connected to the power (AC 100 - 240 V). Using other power rated outlets may result in fire or malfunction.
- When using a power surge protector, make sure that the outlet or the extension cable has adequate power capacity.
- Do not disassemble or modify the equipment, including internal parts, without written consent from the manufacturer. This may cause electric shock or injury, product malfunction, inaccurate results, and will void the manufacturer's warranty.
- If this equipment is modified, appropriate inspection and testing must be conducted to ensure continued safe use of equipment.
- Do not directly contact the InBody270 with any other electronic device when the InBody270 is on. This may result in an electric shock.
- If you are not using the InBody270 for a long time, unplug the power code.

Avertissement

- Ne tirez pas violemment sur le cordon d'alimentation.
- Ne placez pas l'InBody270 dans un endroit où il serait difficile de débrancher le cordon d'alimentation.
- Ne branchez ou débranchez jamais le cordon d'alimentation avec les mains mouillées. Il y a risque de choc électrique.
- Utilisez toujours une prise connectée à l'alimentation (CA 100 - 240 V). L'utilisation de prises avec différentes puissances nominales peut entraîner un incendie ou un mauvais fonctionnement.

- Lorsque vous utilisez un protecteur contre les surtensions, assurez-vous que la prise ou le câble d'extension ait une capacité électrique suffisante.
- N'essayez pas de démonter ou de modifier l'équipement, y compris les pièces internes, sans le consentement écrit du fabricant. Cela peut entraîner un choc électrique ou une blessure, un mauvais fonctionnement du produit, des résultats inexacts et annulera la garantie du fabricant. Si cet équipement est modifié, des contrôles appropriés et des tests doivent être effectués pour assurer l'utilisation continue et sécuritaire de l'équipement.
- Ne connectez pas directement l'InBody270 avec un autre appareil électronique lorsque l'InBody270 est allumé. Cela peut provoquer un choc électrique.
- Si vous n'utilisez pas le InBody270 pendant une longue période, débranchez le cordon d'alimentation.

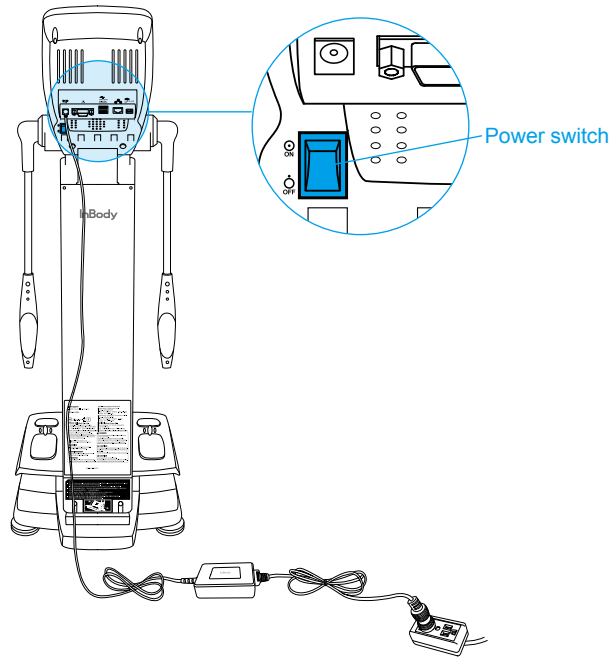
Caution

- If the InBody270 is not plugged into a grounded outlet, it may be damaged by an electrical surge or product malfunction. This may affect the test results.
- The test results may be inaccurate if the InBody270 is under electrical interference. Do not install the InBody270 near products that generate electrical interference such as fluorescent lights, large AC motor equipment (treadmill, vibration plate, refrigerator, air-conditioner, compressor, etc.), high-frequency thermal therapy equipment, or heating appliances. Do not share the power source of the InBody270 with other electrical devices. This may affect the test results.
- When connecting the InBody270 with other test equipment, turn on the other equipment first. When turning off other equipment, turn off the InBody270 first. This is necessary to minimize electrical surges to the InBody270.
- Always use the specified adapter provided by InBody, as it is a part of the InBody270. Using other adapters may result in malfunction of the InBody270.
- Operation of the InBody270 2,000m above sea level may affect the weight measurement.
- The adapter must be positioned so that the power may be easily cut off when a problem occurs during operation of the InBody270.

Attention

- Si l'InBody270 n'est pas branché à une prise de terre, cela peut causer des dommages par le biais de surtensions électriques ou de mauvais fonctionnement. Cela peut affecter les résultats du test.
- Les résultats du test peuvent être imprécis, si l'InBody270 est soumis à des interférences électriques. N'installez pas l'InBody270 près d'équipements qui génèrent des interférences électriques, tels que les lampes fluorescentes, les gros équipements à moteur CA (tapis roulant, plaque vibrante, réfrigérateur, climatiseur, compresseur, etc.), équipements de thérapie thermique à haute fréquence, ou appareils de chauffage. Ne partagez pas la source d'alimentation de l'InBody270 avec d'autres appareils électriques. Cela peut affecter les résultats du test.
- Lors de la connexion de l'InBody270 avec d'autres équipements, allumez d'abord les autres équipements. Lorsque vous éteignez l'équipement, éteignez d'abord l'InBody270. Ceci est nécessaire afin de réduire les risques de surtensions électriques sur l'InBody270.
- Utilisez toujours l'adaptateur fourni par InBody, puisque c'est une pièce de l'InBody270. L'utilisation d'autres adaptateurs peut entraîner la défaillance de l'InBody270.
- Operation of the InBody270 2,000m above sea level may affect the weight measurement.
- L'adaptateur doit être placé de telle sorte qu'il soit facile de couper l'alimentation, lorsqu'un problème survient dans l'InBody270.

5. Flip the power switch to turn on the InBody270.



D. Initial Setup

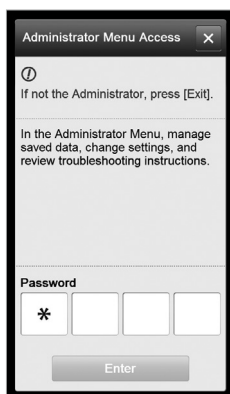
- The InBody270 automatically starts booting when it is turned on. While booting, it performs a self weight calibration.
 - * While booting (about 5 minutes), make sure there is nothing on top of the footplate. Please do not stand on the footplate or place objects on the footplate.



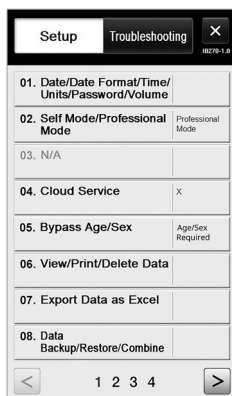
- Press the [Administrator Menu] button on the screen, which appears when no one is on the footplate.



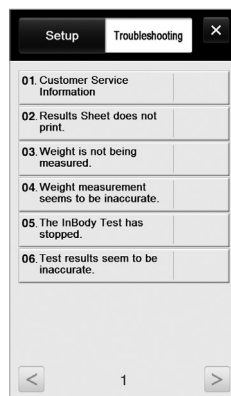
- Input the password (default password: 0000) to access the Administrator Menu.



- The Administrator Menu will give you access to 'Setup' and 'Troubleshooting'.



Setup



Troubleshooting

1) Setup: Configure settings and manage data according to the test environment.

01. Date/Date Format/Time/Units/Password/Volume

: Change or modify the InBody's general settings.

02. Self Mode/Professional Mode

- Self Mode: The examinee takes the InBody Test by only entering his/her height.

Throughout the test, instructions and the InBody Information will be shown on screen.

- Professional Mode: An examiner is present is guiding the examinee through the InBody Test.

03. N/A

04. Cloud Service

: InBody App provides services that allow members to check and manage results themselves. If you enter your mobile phone number, you can check the results on the member's mobile phone as the InBody results are transmitted to InBody Cloud.

05. Bypass Age/Sex

: The examinees can bypass inputting their age or sex if the test environment is designed for testing only adults or a specific sex.

* 'M/F' refers to biological sex of the user, male or female.

06. View/Print/Delete Data

: The administrator can manage test results using ID.

07. Export Data as Excel

: You can export test results as an Excel file on a USB Thumb Drive. Exported test results can be viewed as an Excel file on a computer.

08. Data Backup/Restore/Combine

: Back up InBody Test results to a USB Thumb Drive, restore test results using a backup file on a USB Thumb Drive, or add test results using a backup file on a USB Thumb Drive that is connected to the InBody.

09. Printer Setup

: Connect the printer to the InBody. A connected printer will allow for printing results sheets after testing.

10. Results Sheet Types

: Select which results sheets to utilize with the InBody270.
(InBody Results Sheet or Thermal Results Sheet).

11. Automatic Printing Options

: This option enables automatic printing of the Results Sheet after each test. Up to two copies can be printed at a time.

12. N/A

13. Outputs/Interpretations for Results Sheet
 - : This option allows you to configure the outputs and interpretations appearing on the right-hand side of the InBody Results Sheet and the Thermal Results Sheet.
14. Results Sheet Custom Logo
 - : Insert a logo on upper right corner of the printed results sheet.
 - * Please contact InBody for help with uploading or modifying a logo.
15. Printing Alignment
 - : Adjust the alignment of where the results will be printed on the results sheets.
16. Internet Options
 - : You can connect the InBody wirelessly to the network when using data management software, LookinBody.
17. N/A
18. Manual/Automatic Weight
 - : Select whether to have weight automatically measure or manually entered before testing.
19. Adjust Weight
 - : Adjust measured weight by a fixed value on the InBody. (Example: Workout clothes at the gym are approximately 0.2kg; most examinees are assumed to be wearing workout clothes, so the examiner may adjust the set value to -0.2kg.)
20. Reference
 - : Set the normal range for BMI and Percent Body Fat.
 - * The ideal BMI value may also be set.
21. N/A
22. N/A
23. Touchscreen Alignment
 - : Adjust the alignment of the touchscreen.
24. Customer Service Information
 - : Save the customer service contact information. Please refer to the customer service information if you have any inquiries regarding the InBody Test or problems that cannot be resolved through the 'Troubleshooting' menu.
25. Auto-Lock
 - : Set the password and wait time for auto-lock on the InBody270.
26. Serial Connect
 - : This option allows you to connect InBody with LookinBody member management program for PC or with other devices over serial connection.

2) Troubleshooting: See additional information on how to use the InBody. Refer to troubleshooting checklist when problems occur during the InBody use/test.

01. Customer Service Information

: See the customer service contact information saved under the Setup of the Administrator Menu '24. Customer Service Information'. Please contact Customer Service if your problem cannot be resolved through the 'Troubleshooting' section, or if you have further inquiries regarding the InBody Test.

02. Results Sheet does not print.

: View the troubleshooting checklist when the Results Sheet does not print with the printer connected to the InBody.

03. Weight is not being measured.

: View the troubleshooting checklist when weight is not being measured after stepping on to the InBody footplate.

04. Weight measurement seems to be inaccurate.

: View the troubleshooting checklist when the weight measurement seems to be inaccurate.

05. The InBody Test has stopped.

: View the troubleshooting checklist when the InBody Test has stopped.

06. Test results seem to be inaccurate.

: View the troubleshooting checklist when the test results seem to be inaccurate.

E. Connecting Printer, Thermal Printer, Stadiometer, Barcode Reader

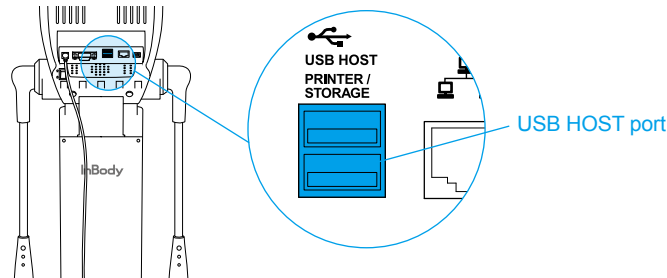
1. Printer

In order to print InBody Results Sheets, an InBody270 compatible printer is required.

- 1) First turn off the InBody270 and then the printer.

* You may experience connection issues when connecting the printer to the InBody270 if the InBody is turned on.

- 2) Plug the USB cable provided with the printer into the USB HOST port on the rear panel of the InBody270 and plug the other end of the USB cable into the printer.



- 3) Turn on the printer.
- 4) Turn on the InBody270 and set up your printer under Settings in the Administrator Menu '09. Printer Setup'.
- 5) You can edit your printing settings under Settings in the Administrator Menu from '10. Results Sheet Types' through '15. Printing Alignment'.

2. Thermal Printer

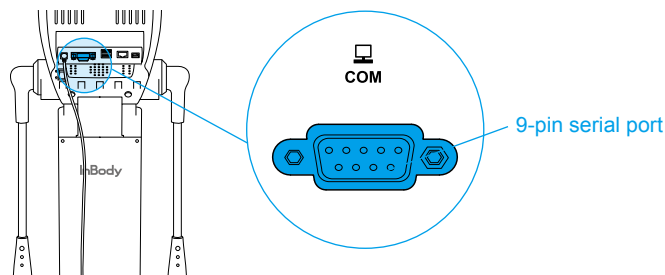
Connect thermal printer to the InBody270 to print Thermal Results Sheet.

* For best results, the InBody270 should be turned off when connecting to thermal printer.

- 1) Turn off the InBody270.

* For best results, the InBody270 should be turned off when connecting to thermal printer.

- 2) Connect the serial cable supplied with your thermal printer to the 9-pin serial port on the rear panel of the InBody270. Then, connect the other end of the serial cable to the serial port on the thermal printer.



- 3) Turn on the thermal printer.
- 4) Turn on the InBody270. Go to Setup in Administrator Menu and select 'Thermal Printer' under '26. Serial Connect'.
- 5) Go to Setup in Administrator Menu and select 'Thermal Results Sheet' under '10. Results Sheet Types' and select the outputs to be printed on the Thermal Results Sheet under '13. Outputs/Interpretations for Results Sheet'.

3. Stadiometer

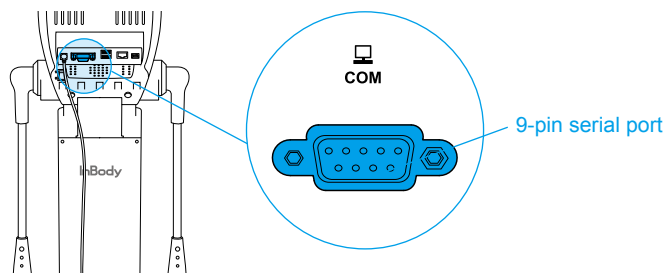
If a stadiometer is connected to the InBody270, the height values measured by the stadiometer will be sent directly to the InBody270.

* Always connect a stadiometer from InBody.


1) First turn off the InBody270 and then the stadiometer.

* You may experience connection issues when connecting the stadiometer to the InBody270 if the InBody is turned on.

2) Plug the serial cable provided with the stadiometer to the 9-pin serial port on the rear panel of the InBody270.



3) Turn on the stadiometer.

4) Turn on the InBody270. Go to Setup in Administrator Menu and select 'Stadiometer' under '26. Serial Connect'. If the stadiometer is connected to the InBody270, the stadiometer icon () will appear on the top left corner of the screen when no one is on the footplate.

4. Blood Pressure Monitor

If a blood pressure monitor is connected to the InBody270, the blood pressure values measured by the blood pressure monitor will be sent directly to the InBody270.

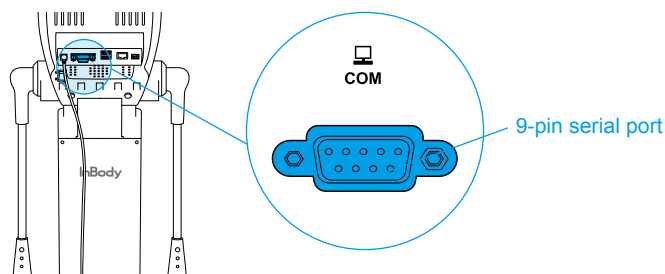
* Always connect a blood pressure monitor from InBody.

* If you select to print blood pressure measurements under Settings of the Administrator Menu '13. Outputs/Interpretations for Results Sheet', the blood pressure measurements will be printed on the InBody Results Sheet.


1) First turn off the InBody270 and then the blood pressure monitor.

* You may experience connection issues in connecting the blood pressure monitor to the InBody270 if the InBody is turned on.

2) Plug the serial cable provided with the blood pressure monitor to the 9-pin serial port on the rear panel of the InBody270.



3) Turn on the blood pressure monitor.

4) Turn on the InBody270. Go to Setup in Administrator Menu and select 'Blood Pressure Monitor' under '26. Serial Connect'. If the blood pressure monitor is connected to the InBody270, the blood pressure monitor icon () will appear on the top left corner of the screen when no one is on the footplate.

5. Barcode Reader

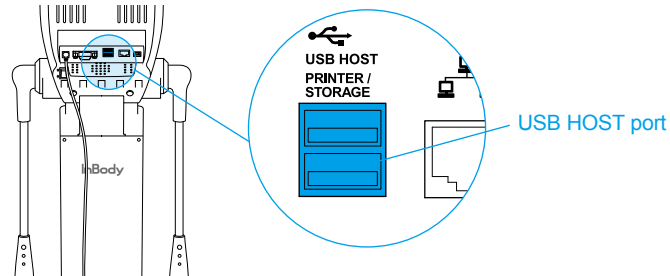
If a barcode reader is connected to the InBody270, the ID can be input automatically.

* If the InBody cannot recognize the barcode reader, please contact InBody.

1) First turn off the InBody270.

* You may experience connection issues when connecting the barcode reader to the InBody270 if the InBody is turned on.

2) Plug the USB cable of the barcode reader into the USB HOST port on the rear panel of the InBody270.



3) Turn on the InBody270. If the barcode reader is connected to the InBody270, the barcode reader icon () will appear on the top left corner of the screen when no one is on the footplate.

F. Maintenance

Caution

- Do not bend the handles of the hand electrodes or rotate them in the reverse direction beyond their limitation.
- Do not extend the handles of the hand electrodes beyond their limitation.
- Do not place any objects on the footplate.
- Do not apply excessive force on the equipment.
- Turn off the equipment if you are not using it for a day or longer.
- Do not allow any liquid substances to contact the equipment directly. Keep food and drinks away from the equipment. Substances getting inside the equipment can cause critical damage to the electronic components.
- Use a lint-free cloth to gently wipe the external surface of the equipment about once every week. Be careful not to scratch the LCD screen.
- InBody270 does not need regular maintenance. If problems occur while operating the device, please contact InBody USA.
We do not take responsibility for problems caused by any unauthorized repairs.

Attention

- *Veillez à ne pas tordre les poignées des électrodes à main ou à ne pas les faire pivoter dans le sens inverse, au-delà de ses limites.*
- *Ne prolongez pas les poignées des électrodes à main au-delà de ses limites.*
- *Ne placez pas d'objets sur le repose-pieds.*
- *N'exercez pas de force excessive sur l'équipement.*
- *Éteignez l'équipement si vous ne l'utilisez pas pendant un jour ou plus.*
- *Ne laissez pas de substances liquides rentrer en contact directe avec les équipements. Éloignez les aliments et les boissons de l'équipement. Les substances qui pénètrent à l'intérieur de l'équipement peuvent entraîner des dommages sur les composants électroniques.*
- *Utilisez un chiffon non pelucheux pour nettoyer légèrement la surface externe de l'équipement, environ une fois par semaine. Veillez à ne pas rayer l'écran à cristaux liquides.*
- *InBody270 ne nécessite pas d'entretien régulier. Si des problèmes surviennent pendant le fonctionnement de l'appareil, rentrez en contact avec le magasin où vous l'avez acheté, ou le gestionnaire A/S. Nous ne sommes pas responsables des problèmes occasionnés par des réparations arbitraires.*

II. InBody Test

A. Precautionary Steps

Warning

- Individuals with medical implant devices such as pacemakers, or essential support devices such as patient monitoring systems, must not use this equipment. Safe, low-level currents will flow through the body during the test, which may cause malfunctioning of an implanted device, which could potentially endanger the life of the examinee.
- Children and people with limited mobility should be supervised or assisted when attempting to test on the InBody.
- After an individual with any kind of contagious disease or infection tests on the InBody, use an InBody Tissue to clean the equipment.
- Do not support yourself on the device when stepping up or down from the footplate.
- Please be careful not to trip or get your foot caught in the footplate.

Avertissement

- *Toute personne qui a un implant médical tel un stimulateur cardiaque ou un dispositif d'assistance essentiel comme appareil médical de surveillance ne doit pas utiliser cet équipement. Des courants sécurisés et à de faibles niveaux traverseront le corps pendant le test et cela peut provoquer un mauvais fonctionnement de l'appareil ou mettre des vies en danger.*
- *Les enfants et les personnes à mobilité réduite doivent être supervisés ou assistés, lorsqu'ils essaient de faire le test sur l'InBody.*
- *Après qu'un individu affligé d'une maladie contagieuse ou d'une infection ait effectué le test sur l'InBody, utilisez un InBody Tissue pour nettoyer les équipements.*
- *Ne vous appuyez pas sur l'équipement lorsque vous montez ou descendez de la plateforme.*
- *Attention à ne pas trébucher ou à vous coincer un pied sur le côté de la plateforme.*

Caution

- Stand upright for about 5 minutes before testing. Taking the test immediately after lying in bed or sitting for a long period of time might result in a slight change in the test results. This is because body water tends to move to the lower body as soon as the person stands or gets up.
- Do not eat before testing. In cases where the examinee has already eaten, the test should be put off for at least two hours after the meal.
This is because food mass is included in the examinee's weight and may result in measurement errors.
- Use the bathroom before testing. Waste is not included in the body's compositional elements, but the volume of urine and excrement is included in the weight measurement which may affect the accuracy of the test results.
- Do not exercise before testing. Strenuous exercise or sharp movements can cause temporary changes in body composition. Even light exercise can change your body composition temporarily.
- Take the test in the morning, if possible. Body water tends to gravitate towards the lower body throughout the day, affecting accuracy of the test results.
- Thoroughly wipe the palms and soles with the InBody Tissue before testing. Testing may be difficult if the examinee's palms and soles are too dry or if the examinee has too many calluses.
- Avoid contact with the examinee during testing. Contact may lead to interference, which may affect test results.

Attention

- *Tenez-vous debout pendant environ 5 minutes avant le test. Effectuer le test immédiatement après avoir été allongé dans un lit ou avoir été assis pendant une longue période peut causer un léger changement dans les résultats du test car les liquides corporels ont tendance à se déplacer vers la partie inférieure du corps lorsque la personne est debout ou se lève.*
- *Ne pas manger avant le test. Dans les cas où le candidat a déjà mangé, le test doit être reporté à au moins deux heures après le repas. Cela est nécessaire car la masse alimentaire est incluse dans le poids du candidat et ainsi, peut entraîner des erreurs de mesure.*
- *Allez aux toilettes avant d'effectuer le test. Les déchets organiques ne sont pas inclus dans les éléments de composition du corps, mais le volume d'urine et d'excréments est inclus dans la mesure du poids. Cela affecte la précision des résultats du test.*
- *Ne faites pas de sport avant le test. Des exercices intensifs ou des mouvements brusques peuvent provoquer des changements temporaires de la composition corporelle. Même de légers exercices peuvent temporairement changer votre composition corporelle.*
- *Faites le test le matin, si cela est possible. Les liquides corporels tendent à graviter vers la partie inférieure du corps tout au long de la journée, affectant la précision des résultats.*
- *Avant le test, bien essuyer la paume des mains et la plante des pieds avec l'InBody Tissue. Effectuer le test peut être difficile si les paumes et les plantes du candidat sont trop sèches ou si le candidat a trop de callosités.*
- *Évitez tout contact avec le candidat lors du test. Ce contact peut entraîner des interférences qui pourraient modifier les résultats du test.*

B. Test Instructions

1. Step on the footplate when the screen below is shown.

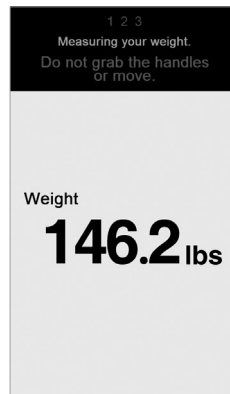
* The screens vary according to the Settings of the Administrator Menu '02. Self Mode/Professional Mode'.

Professional Mode: An examiner is present and guiding the examinee through the InBody Test.

Self Mode: The examinee takes the InBody Test following the instructions that are displayed on screen.



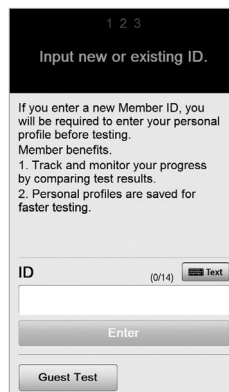
2. Weight measurement begins.



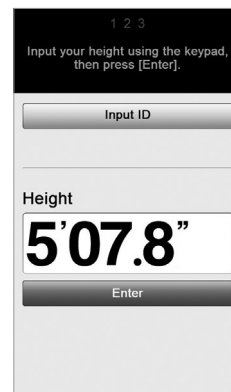
3. Input personal information.

* In Professional Mode, enter the ID.

* Input height only if using Self Mode.



Professional Mode



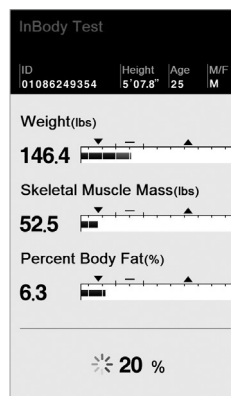
Self Mode

4. Maintain a proper posture to take the test.

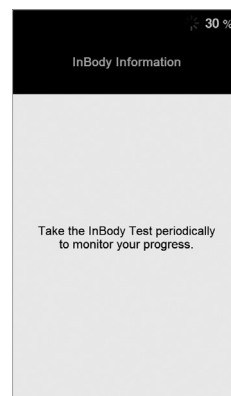
*Refer to 'C. Test Posture' for the proper posture.



5. The InBody Test begins.

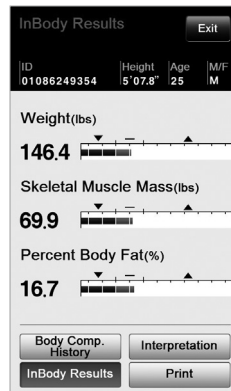


Professional Mode

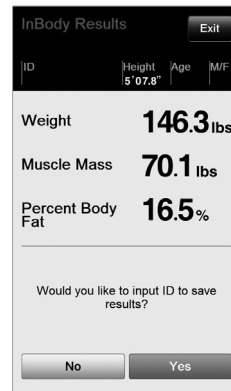


Self Mode

6. When the test is completed, the results will be shown on the screen.



Professional Mode

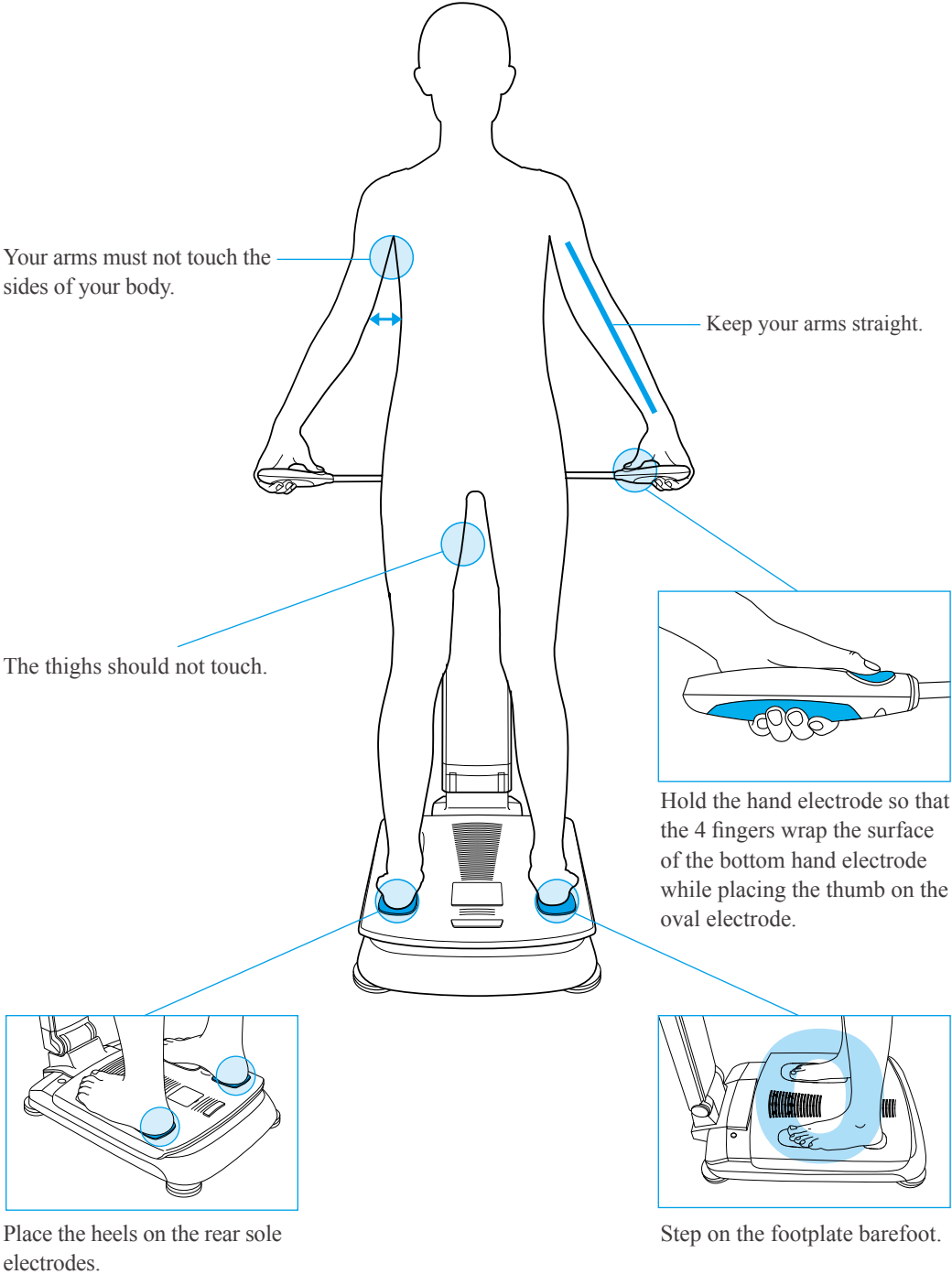


Self Mode

C. Test Posture

The examinee must maintain the proper posture to have accurate test results.

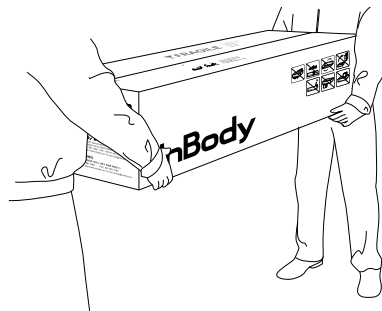
* The test will proceed when proper contact is made with all of the electrodes.



III. Transportation and Storage

A. Cautions during Transportation

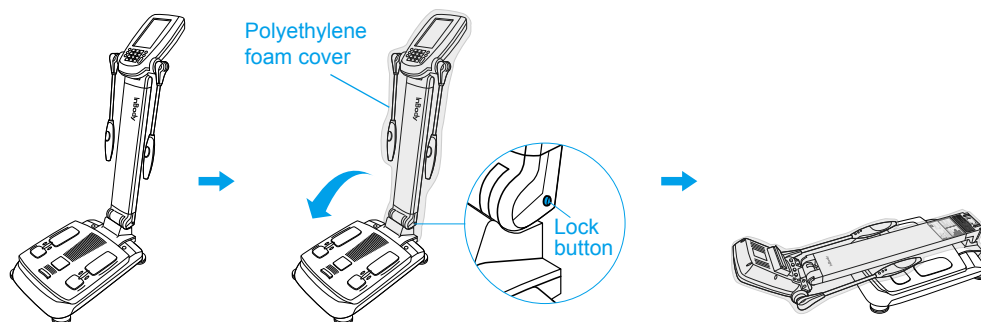
When transporting, have two people keep the InBody270 parallel to the ground.



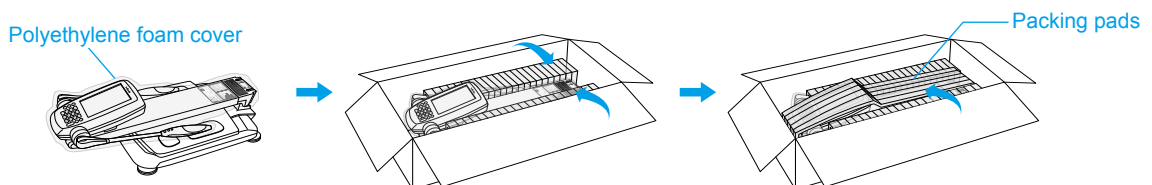
B. Repacking Instructions

Once the InBody270 is installed, avoid transporting the equipment. If it must be transported, repack it in the following sequence.

1. Turn off the InBody270.
2. Separate the connected adapter, cords, and cables from the equipment, and cover the InBody270 with the polyethylene foam cover.
3. While holding the upper part lock button, lower the upper part by folding it down.



4. Put the InBody into the packing box. Place the packing pad over the equipment and tape up the packing box.



Caution

Always use the protective packing materials provided by InBody when repacking.

Attention

• Utilisez toujours l'emballage de protection fournis par InBody lors du ré-emballage.

C. Transportation and Storage Environment

The InBody270 should be transported or stored under the following conditions.

Temperature range	14 ~ 158 °F (-10 ~ 70 °C)
Relative humidity	10 ~ 80% RH (No Condensation)
Atmospheric pressure	50 ~ 106kPa

IV. Frequently Asked Questions (FAQ)

Even if no problems arise from the equipment, users may still have many questions, especially regarding clinical procedures. A few common questions and answers are listed below. If your questions are not answered here, please contact InBody.

* Customer contact information can be found under Settings of the Administrator Menu '24. Customer Service Information'.

A. Regarding the InBody270

If a problem arises with the InBody270, you should first check 'Troubleshooting' in the Administrator Menu. The InBody270 can help you diagnose and solve some problems. If your problem cannot be resolved by consulting the 'Troubleshooting' section, please refer to the possible solutions below.

Problem	Solution
<ul style="list-style-type: none"> • My InBody270 does not turn on. 	<ul style="list-style-type: none"> • Insert the power plug completely into a grounded 3-socket outlet. <div> </div> • When using a power surge protector, the equipment may not power on if the power switch on the power surge protector is turned off. Check the power surge protector which the power plug is connected to. <div> </div> • A problem may occur if the power cord is not completely plugged into the adapter. Insert the power cord completely into the adapter. <div> </div> • The problem may occur if you are using a power adapter that is not provided by InBody. Always connect a power adapter (DC 12V, 3.4A/3.34A) provided by InBody. <div> </div>

Problem	Solution
<ul style="list-style-type: none"> • My touchscreen is inaccurate or not responsive. 	<ul style="list-style-type: none"> • Calibrate the touchscreen under Settings of the Administrator Menu '23. Touchscreen Alignment'. <ul style="list-style-type: none"> * Press firmly to optimize touchscreen response. • If you cannot enter the Administrator Menu due to touchscreen problems, please restart the InBody. The InBody stores the last touchscreen alignment and will automatically recall the previous touchscreen settings. The InBody can also recognize if its touchscreen alignment is off screen and will automatically take the user to the calibration screen after restarting.
<ul style="list-style-type: none"> • I would like to connect other equipment to the InBody270. 	<ul style="list-style-type: none"> • Please refer to 'E. Connecting Printer, Thermal Printer, Stadiometer, Blood Pressure Monitor, and Barcode Reader' in Section 'I. InBody270 Installation' in this User's Manual.

B. Regarding the InBody Test

Some of the more common clinical questions are answered below. If there are additional questions or more clarification is desired, please contact InBody.

Question	Answer
<ul style="list-style-type: none"> • Must socks or stockings be removed for the InBody Test? 	<ul style="list-style-type: none"> • Bare skin contact is essential for analysis using the BIA method. Socks or stockings may cause a varying degree of distortion in the results. Socks or stockings must be removed to obtain accurate data.
<ul style="list-style-type: none"> • Is it okay to wear accessories (jewelry, watch, rings, etc) or metal objects while taking the InBody Test? 	<ul style="list-style-type: none"> • The ideal condition for the analysis is to simply stand with no clothes and no accessories. However, this may not always be possible. Therefore, we recommend that the examinee remove as many clothing items and accessories as possible that may affect the weight.
<ul style="list-style-type: none"> • Who cannot take the InBody Test or will have difficulties taking the InBody Test? 	<ul style="list-style-type: none"> • Individuals with implanted medical devices such as pacemakers, or essential support devices such as patient monitoring systems, must not use this equipment. The currents will flow through the body during the test, which may cause malfunctioning of the device or endanger lives. • Children, amputees, or the elderly may have trouble testing if they cannot hold the hand electrodes or stand still on the foot electrodes.
<ul style="list-style-type: none"> • Can a person with metal implants in their body take the InBody Test? 	<ul style="list-style-type: none"> • The ideal test circumstance is when the examinee does not wear anything metallic. Individuals with metallic implants may have skewed test results due to the conductivity of the metal affecting the results. • As the weight of clothes and other items affects the results of the body composition analysis, it is strongly recommended to take off any heavy clothing or metallic items. Except for its minor effect on overall body weight, jewelry does not affect the body composition analysis, as the contact point of the InBody270 are hands and feet.
<ul style="list-style-type: none"> • I have limited mobility and cannot maintain the proper posture for the InBody Test. How can I still be tested? 	<ul style="list-style-type: none"> • It is impossible to test if an individual cannot maintain contact with the hand or foot electrodes. InBody has a line of products that can perform body composition analysis on bedridden examinees, which allow these patients to stay in bed. For more information, please contact InBody.
<ul style="list-style-type: none"> • Is the electric current harmful to the body? 	<ul style="list-style-type: none"> • The bioelectrical impedance method uses safe, low-level currents that are not harmful to the body. The safety of the InBody has been tested and proven. The InBody products have been approved for medical use by the CE and all over the world. Many medical institutions around the world are actively using the InBody.
<ul style="list-style-type: none"> • How often should I take the InBody Test? 	<ul style="list-style-type: none"> • Individuals who are undergoing any programs that may affect their body composition are strongly recommended to have the InBody Test done every two to four weeks. • Consistent testing will allow individuals to track and monitor their progress over time.
<ul style="list-style-type: none"> • What are the precautionary steps to ensure the accuracy of the InBody Test? 	<ul style="list-style-type: none"> • Please refer to ‘A. Precautionary Steps’ in section ‘II. InBody Test’ in this User’s Manual.

V. Others

* The InBody270 is manufactured according to the quality management procedure of InBody. InBody complies with the ISO9001 and ISO13485, which are international quality management systems.

* This equipment satisfies the IEC60601-1 (EN60601-1), an international safety standard for electronic medical equipment. This equipment also satisfies the IEC60601-1-2 (EN60601-1-2), an international standard for electromagnetic conformity.

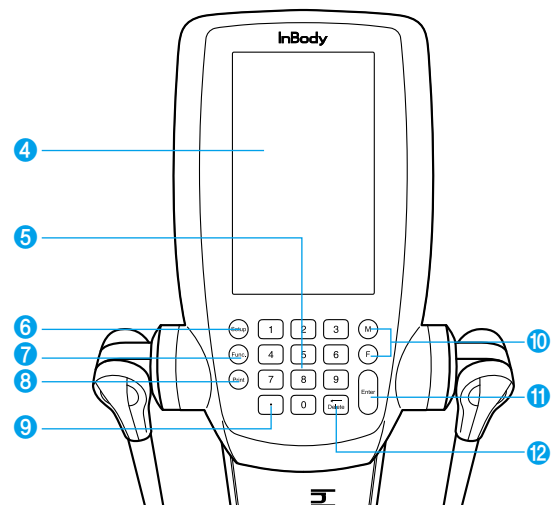
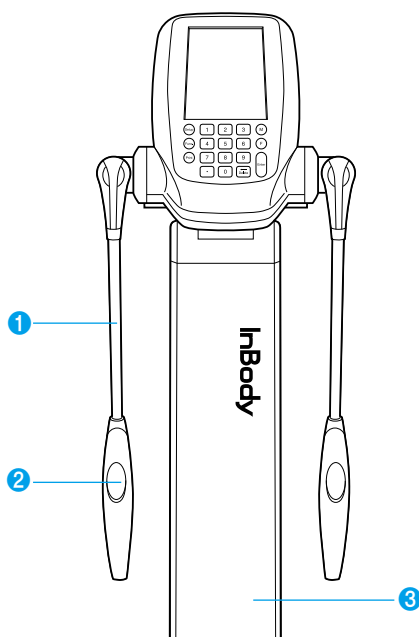
A. Exterior and Functions

The following are the names and functions of each part of the InBody.

* Please inspect each component of the InBody270 for damage prior to installation.

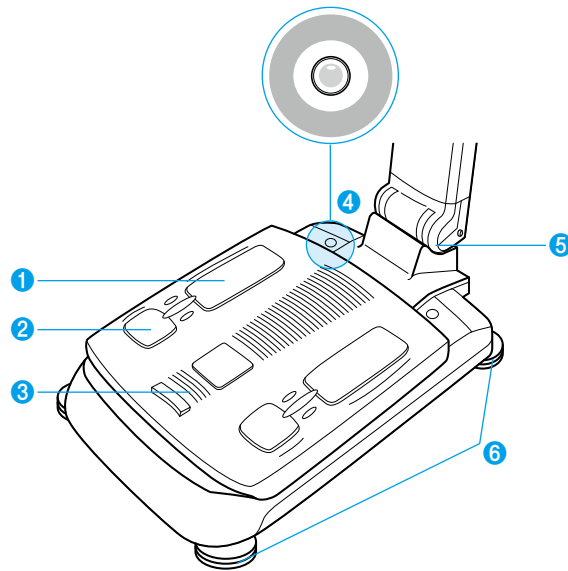
1. Upper Part

- ① Hand electrode pipe: The signal cables connecting to the electrodes are in this pipe.
- ② Hand electrodes: Examinee holds the handle so that the 4 fingers wrap the surface of the bottom hand electrode while the thumb is placed on the oval electrode.
- ③ Body: Connects the upper part of the equipment to the lower part.
- ④ LCD screen: Shows each stage of the test, instructions, test results, etc. You can touch the screen to input the data required for the test, configure settings, or view test results.
- ⑤ Number keypad: Used for inputting age, height, and other number-based data.
- ⑥ Setup button : Used for entering 'Settings' under the Administrator Menu when no one is on the footplate.
- ⑦ Function button: Used for entering 'Troubleshooting' under the Administrator Menu when no one is on the footplate.
- ⑧ Print button: Used for printing the test results.
- ⑨ Decimal point button: Used for inputting the decimal point in ID, height, age, or weight.
- ⑩ M / F buttons: Used to choose between Male and Female.
- ⑪ Enter button: Used to finish inputting data or to save changes in Administrator Menu.
- ⑫ Delete button: Used for deleting inputted data.



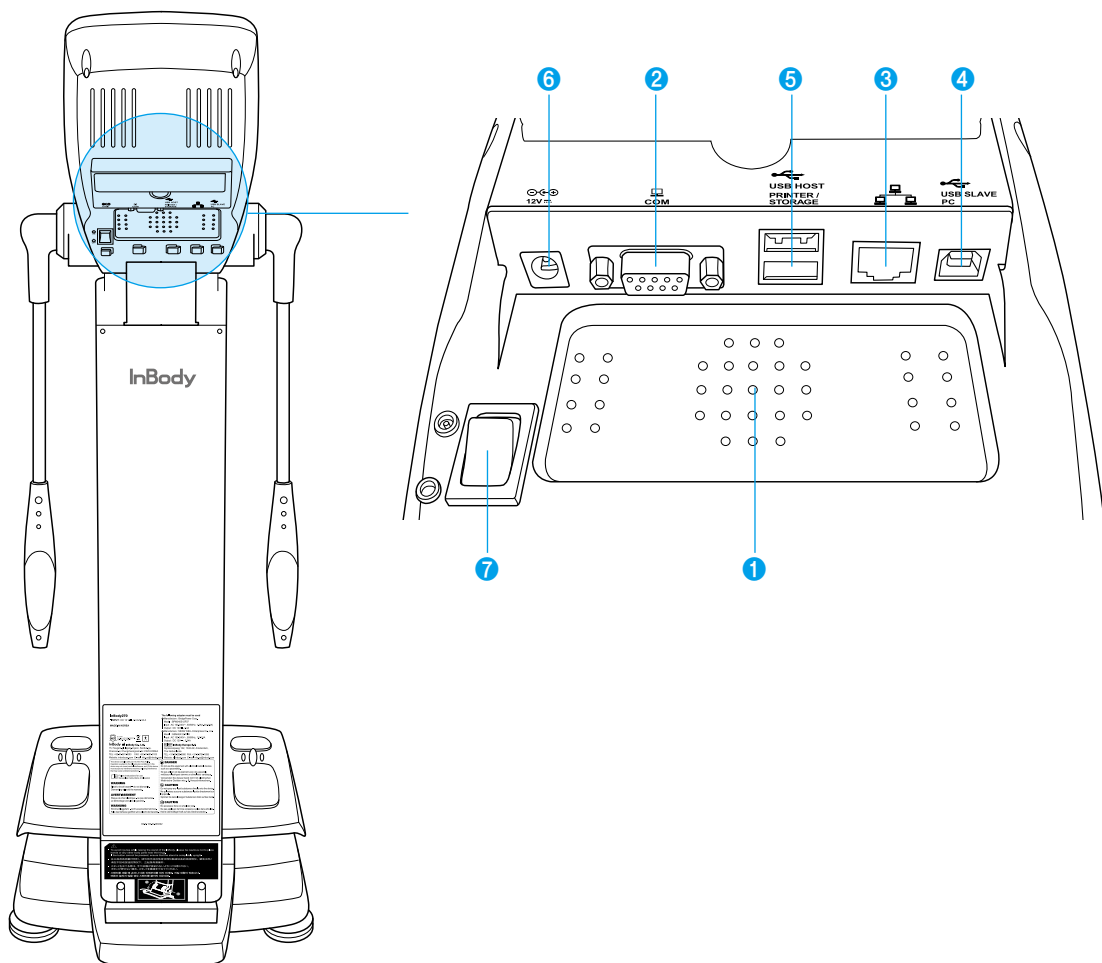
2. Footplate

- ① Front sole electrode: The examinee makes contact with this electrode by stepping with the front part of their foot.
- ② Rear sole electrode: The examinee makes contact with this electrode by stepping with the heel of their foot.
- ③ Footplate: This is connected to the scale, which measures the examinee's weight.
- ④ Level Indicator: Indicates the current horizontal level of the InBody270.
- ⑤ Hinge: Joins the upper part and lower part of the equipment together.
- ⑥ Leveling screws: Used for adjusting the horizontal level of the equipment.



3. Rear Panel

- 1 Speaker: Provides audible instructions for test procedures and confirmations of completed tests/saved setting changes.
- 2 9-pin COM serial port (Female, RS-232C): Used for connecting the InBody270 to LookinBody installed on a computer, a stadiometer, a blood pressure monitor, and SD400.
 - * The InBody270 can be connected to LookinBody installed on a computer using one of the ports , , or .
 - * Only compatible with an InBody Stadiometer, Blood Pressure Monitor, and SD400.
- 3 LAN port (10T Base): Used for connecting the InBody270 to LookinBody installed on a computer.
 - * The InBody270 can be connected to LookinBody installed on a computer using one of the ports , , or .
- 4 USB SLAVE port: Used for connecting the InBody270 to LookinBody installed on a computer.
 - * The InBody270 can be connected to LookinBody installed on a computer using one of the ports , , or .
- 5 USB HOST port: Used for connecting to a printer, a barcode reader, or a USB Thumb Drive.
- 6 Power Inlet: Used for connecting the power adapter.
 - * Always use the adapter supplied by InBody Inc.
- 7 Power switch: Used to turn the device on/off.



Warning




- External equipment intended for connection to signal input, signal output or other connectors, shall comply with relevant IEC Standard (e.g., IEC60950 for IT equipment and IEC60601-1 series for medical electrical equipment). In addition, all such combined systems shall comply with the standard IEC60601-1 and/or IEC60601-1-1 harmonized national standard of the combination. If in doubt, contact a qualified technician or your local representative.

Advertisement







- *Les équipements externes destinés à la connexion de l'entrée du signal, de la sortie du signal ou d'autres connecteurs doivent respecter les normes de la CEI appropriées (par exemple, CEI 60950 pour les équipements informatiques et les séries CEI 60601-1 pour les équipements électro-médicaux). De plus, toute combinaison de ces systèmes doit être conforme à la norme CEI 60601-1 et/ou aux normes nationales harmonisées CEI 60601-1-1 ou leur combinaison. En cas de doute, contactez un technicien qualifié ou votre représentant local.*

B. Safety Information





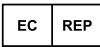



Indicators

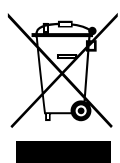
	9-pin serial port (Female, RS-232C)
	LAN port (10T Base)
	USB port

Safety Symbols

	Dangerous High Voltage
	Warning, Caution
	BF Type Equipment
	Adapter
	Power On
	Power Off

Etc. Symbols

	Complies with AAMI ES60601-1 CSA-C22.2 No. 60601-1		Serial Number
	Manufacturer		Direct Current
	Authorized Representative in the European Community		Unique Device Identification
	Operating Instructions		Do Not Disassemble, Adjust, or Repair the Product Arbitrarily



Disposal of old Electrical & Electronic Equipment

(Application in the European Union and other European countries with separate collection system.) This symbol indicates that this product shall not be treated as household waste. Instead, it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. For more detailed information about recycling this product, please refer to local governing ordinances and recycling plans.



Follow instructions for use
Suivez les instructions d'utilisation

WARNING

Electric shock hazard – do not dismantle.
Dismantling will void the warranty.

AVERTISSEMENT

Risque de choc électrique - ne pas démonter.
Le démontage annulera la garantie.



DANGER

Do not use this equipment with electrical medical devices such as a pacemaker.
Ne pas utiliser cet équipement avec des appareils médicaux électriques comme un stimulateur cardiaque.



CAUTION

Do not spray any liquid substances directly onto the device.
Ne pulvérisez aucune substances liquids directement sur l'appareil.



CAUTION

Do not apply excessive force on the shoulder joint.
Ne pas appliquer de force excessive sur les bars articulés.

C. Classification

Body Composition Analyzer of Direct Segmental Multi-frequency Bioelectrical Impedance Analysis Method

- Types of protection against electric shock: Class I
- Type of the applied parts: BF Type
- Degree of protection against water infiltration: IPX0
- EMC Emission: Class B
- Equipment is not suitable for use in the presence of flammable mixtures.

D. Specifications

Bioelectrical Impedance Analysis (BIA) Measurement Items	Bioelectrical Impedance (Z)	10 Impedance Measurements by Using 2 Different Frequencies (20kHz, 100kHz) at Each of 5 Segments (Right Arm, Left Arm, Trunk, Right Leg, and Left Leg)
Electrode Method	Tetrapolar 8-Point Tactile Electrodes	
Measurement Method	Direct Segmental Multi-frequency Bioelectrical Impedance Analysis Method (DSM-BIA) Simultaneous Multi-frequency Impedance Measurement (SMF-BIA)	
Body Composition Calculation Method	No Empirical Estimation	
Outputs (InBody Results Sheet)	Results and Interpretations <ul style="list-style-type: none"> • Body Composition Analysis (Total Body Water, Dry Lean Mass, Body Fat Mass, Weight) • Muscle-Fat Analysis (Weight, Skeletal Muscle Mass, Body Fat Mass) • Obesity Analysis (Body Mass Index, Percent Body Fat) • Segmental Lean Analysis (Right Arm, Left Arm, Trunk, Right Leg, Left Leg) • Body Composition History (Weight, Skeletal Muscle Mass, Percent Body Fat) • Body Fat - Lean Body Mass Control • Lean Body Mass • Basal Metabolic Rate Blood Pressure (Systolic, Diastolic, Pulse, Mean Artery Pressure, Pulse Pressure, Rate Pressure Product) Results Interpretation QR Code Impedance (Each segment and each frequency)	
Outputs (InBody Thermal Result Sheet)	Weight, Muscle Mass, Body Fat Mass, Total Body Water, Lean Body Mass, Percent Body Fat, BMI, Basal Metabolic Rate, Body Fat/LBM Control, Segmental Lean Analysis(Right Arm, Left Arm, Trunk, Right Leg, Left Leg), Body Composition History, Impedance (Each segment and each frequency)	
Optional Equipment	Stadiometer from InBody, Thermal printer from InBody, Blood pressure monitor from InBody, and Barcode Scanner	
Logo	Name, Address, and Contact Information can be shown on the InBody Results Sheet.	
Digital Results	LCD Monitor, Data management software LookinBody	
Types of Result Sheets	InBody Results Sheet, InBody Thermal Results Sheet	
Voice Guidance	Provides audible indication for test in progress, test complete, and successfully saved settings changes.	
Database	Test results can be saved if the member ID is utilized. The InBody can save up to 100,000 results.	
Test Mode	Self Mode, Professional Mode	

Administrator Menu	Setup: Configure settings and manage data Troubleshooting: Additional information to help use the InBody		
USB Thumb Drive	Copy, backup, or restore the InBody test data (data can be viewed on Excel or LookinBody data management software)		
Barcode Reader	The member ID will be automatically inputted when the barcode ID is scanned.		
Backup data	Backup data saved in the InBody by using a USB Thumb Drive, Restore results on the InBody from a backup file.		
Applied Rating Current	200 μ A (\pm 40 μ A)		
Adapter	Bridgepower (BPM040S12F07)	Power Input	AC 100-240V, 50/60Hz, 1.2A(1.2A-0.6A)
		Power Output	DC 12V \approx , 3.4A
	Mean Well (GSM 40A12)	Power Input	AC 100-240V, 50/60Hz, 1.0-0.5A
		Power Output	DC 12V \approx , 3.34A
Display Type	480 \times 800 7inch Color TFT LCD		
Internal Interface	Touchscreen, Keypad		
External Interface	RS-232C 1EA, USB HOST 2EA, USB SLAVE 1EA, LAN (10T) 1EA, Wi-Fi 1EA		
Compatible Printer	Laser/Inkjet PCL 3 or above and SPL		
Dimension	356 (W) \times 796 (L) \times 995 (H): mm 14.0 (W) \times 31.3 (L) \times 39.2 (H) : inch		
Equipment Weight	30.9lb (14kg)		
Testing Time	About 15 seconds		
Operation Environment	50 ~ 104°F(10 ~ 40°C), 30 ~ 75% RH, 70 ~ 106 kPa		
Storage Environment	14 ~ 158°F(10 ~ 70°C), 10 ~ 80% RH, 50 ~ 106 kPa (No Condensation)		
Testing Weight Range	22.0 ~ 551.2lb (10 ~ 250kg)		
Testing Age Range	3 + years		
Height Range	3ft 1.4in ~ 7ft 2.61in (95 ~ 220cm)		

* Specifications may change without prior notice.

* "QR Code" is registered trademark of DENSO WAVE INCORPORATED.

E. Guidance and Manufacturer's Declaration

The InBody device is intended for use in the electromagnetic environment specified below. The customer or the user of the InBody device should ensure that it is used in such an environment.

Electromagnetic emissions		
Emissions test	Compliance	Electromagnetic environment
RF emissions CISPR 11	Group 1	The InBody 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	The InBody device is suitable for use in all establishments, including domestic establishments and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.
Harmonic emissions IEC 61000-3-2	Class A	
Voltage fluctuations/ flicker emissions IEC 61000-3-3	Complies	

Electromagnetic immunity			
Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment - guidance
Electrostatic discharge 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 % is recommended.
Electrical fast transient/burst IEC 61000-4-4	± 2 kV for power supply lines ± 1 kV for input/output lines	± 2 kV for power supply lines ± 1 kV for input/output lines	Mains power quality should be that of a typical commercial or hospital environment.
Surge IEC 61000-4-5	± 0.5 kV, ± 1 kV differential mode ± 0.5 kV, ± 1 kV, ± 2 kV common mode	± 0.5 kV, ± 1 kV differential mode ± 0.5 kV, ± 1 kV, ± 2 kV common mode	Mains power quality should be that of a typical commercial or hospital environment.

Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	0 % U _T (100 % dip in U _T) for 0.5/1 cycles 70 % U _T (30 % dip in U _T) for 25/30 cycles 0 % U _T (100 % dip in U _T) for 250/300 cycles	0 % U _T (100 % dip in U _T) for 0.5/1 cycles 70 % U _T (30 % dip in U _T) for 25/30 cycles 0 % U _T (100 % dip in U _T) for 250/300 cycles	Mains power quality should be that of a typical commercial or hospital environment. If the user of this product requires continued operation during power mains interruptions, it is recommended that this product be powered from an uninterruptible power supply or a battery.
Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	30 A/m	30 A/m	Power frequency magnetic fields should be at levels characteristic of a commercial or hospital environment.

Recommended separation distances between portable and mobile communication equipment and InBody device

The InBody device is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the InBody device can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the InBody device 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 2.7 GHz $d = 2.0\sqrt{P}$
0.01	0.12	0.20
0.1	0.38	0.63
1	1.2	2.0
10	3.8	6.3
100	12	20

For transmitters rated at a maximum output power not listed above, the recommended separation distance d in meters (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.

Electromagnetic immunity

Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment - guidance
Conducted RF IEC 61000-4-6	3 V 150 kHz to 80 MHz	3 V	Portable and mobile RF communications equipment should not be used closer to any part of the Ultrasound System, including cables, than the recommended separation distance. This is calculated using the equation applicable to the frequency of the transmitter.
Radiated RF IEC 61000-4-3	6 Vrms 150 kHz - 80 MHz In ISM bands ¹ amateur radio bands Bands ² 10 V/m 80 MHz to 2.7 GHz	6 V 10 V/m	<p>Recommended separation distance $d = 1.2\sqrt{P}$</p> <p>IEC 60601-1-2:2014 $d = 2.0$ 80 MHz to 2.7 GHz Where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and d is the recommended separation distance in meters (m). Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey,³ should be less than the compliance level in each frequency range.⁴ Interference may occur in the vicinity of equipment marked with following symbol:</p> <div style="text-align: center;">  </div>

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.

1. The ISM (Industrial, Scientific and Medical) bands between 150 kHz and 80 MHz are 6.765 MHz to 6.795MHz; 13.553 MHz to 13.567 MHz; 26.957 MHz to 27.283 MHz; and 40.66 MHz to 40.70 MHz.
2. The amateur radio bands between 0.15 MHz and 80 MHz are 1.8 MHz to 2.0 MHz, 3,5 MHz to 4.0 MHz, 5.3 MHz to 5.4 MHz, 7 MHz to 7.3 MHz, 10.1 MHz to 10.15 MHz, 14 MHz to 14.2 MHz, 18.07 MHz to 18.17 MHz, 21.0 MHz to 21.4 MHz, 24.89 MHz to 24.99 MHz, 28.0 MHz to 29.7 MHz and 50.0 MHz to 54.0 MHz.
3. Field strength 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 InBody device is used exceeds the applicable RF compliance level above, the InBody device should be observed to verify normal operation. If abnormal performance is observed, additional measures maybe necessary, such as re-orienting or relocating the InBody device.
4. When the frequency range exceeds 150 kHz - 80 MHz, the electric field strength should be not higher than 3 V/m.

Electromagnetic emissions

The InBody device is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. Portable RF communications equipment should be used no closer than 30 cm (12 inches) to any part of the InBody device. Otherwise, the performance of this equipment could be impaired.

Immunity test	Band	Service ⁵	Modulation ⁶	IEC60601 test level	Compliance level
Proximity fields from RF wireless Communications IEC61000-4-3	380 - 390 MHz	TETRA 400	Pulse modulation 18 Hz	27 V/m	27 V/m
	430 - 470 MHz	GMRS 460 FRS 460	FM ⁷ ± 5 kHz deviation 1 kHz sine	28 V/m	28 V/m
	704 - 787 MHz	LTE Band13, 17	Pulse modulation 217 Hz	9 V/m	9 V/m
	800 - 960 MHz	GSM800:900 TETRA 800 iDEN 820 CDMA 850 LTE Band 5	Pulse modulation 18 Hz	28 V/m	28 V/m
	1700 - 1990 MHz	GSM 1800 CDMA 1900 GSM 1900 DECT LTE Band 1,2,4,25 UMTS	Pulse modulation 217 Hz	28 V/m	28 V/m
	2400 - 2570 MHz	Bluetooth WLAN 802.11b/g/n RFID 2450 LTE Band	Pulse modulation 217 Hz	28 V/m	28 V/m
	5100 - 5800 MHz	WLAN 802.11a/n	Pulse modulation 217 Hz	9 V/m	9 V/m

NOTE If it is necessary to achieve the IMMUNITY TEST LEVEL, the distance between the transmitting antenna and the ME EQUIPMENT or ME SYSTEM may be reduced to 1m. The 1m test distance is permitted by IEC 61000-4-3.

5. For some services, only the uplink frequencies are included.

6. The carrier shall be modulated using a 50 % duty cycle square wave signal.

7. As an alternative to FM modulation, 50 % pulse modulation at 18 Hz may be used because while it does not represent actual modulation, it would be the worst case.

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