



# **ZIBRIO**pro

**USER MANUAL** 

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Congratulations on your ownership of a ZIBRIO Scale! We're delighted to support you in helping others understand and manage their balance.

#### 1. SAFETY INFORMATION

At ZIBRIO we are very safety conscious, and we design and manufacture products with the safety of you, our valued customer, at the forefront. We ask that you adhere to the following precautions when using your ZIBRIO Pro scale.

WARNING: No modification of this equipment is allowed. Do not use with accessories, detachable parts, or materials not described in this manual.

#### 1.1 Limitations

- The ZIBRIO Pro Scale is not intended to diagnose or treat any illness or condition. While the ZIBRIO Pro Scale measures balance, poor balance in itself is not a disease and can be caused by variety of conditions. If you suspect an underlying medical condition that is affecting someone's balance, consult a doctor; only a doctor can diagnose such a condition.
- Contraindications: The ZIBRIO Pro Scale is not intended for use by individuals who are unable to stand unassisted for at least 60 seconds. The ZIBRIO Pro Scale may not assess balance accurately in the following populations: individuals with vestibular disorders, tremors, or attention and memory issues.
- An operator should always spot patients as they mount and dismount the scale, and should remain in close proximity, spotting them, throughout the duration of the balance test.
- The ZIBRIO Pro Scale cannot be used to gauge intoxication level due to alcohol or other substances. Getting a high balance score is not an indication of fitness for driving or other activities.
- The ZIBRIO Pro Scale is intended for use in professional health care, home health, or professional fitness settings.
- The ZIBRIO Pro Scale should be used in a distraction-free environment for best results.

Maximum weight limit of 350 lbs.

#### 1.2 Care and Use

- Must be used on a hard, level floor. Balance scores and weights will likely be inaccurate if the scale is used on a carpeted floor or an uneven tile floor.
- Should not get wet. Do not immerse in water. Be sure the surrounding floor and the surface of the scale are dry to avoid slipping when using the scale.
- If cleaning is needed, clean top glass surface with glass cleaner. Plastic surfaces may be wiped with a cloth dampened with tap water. Disinfectants suitable for glass or plastic surfaces may be used on the respective surfaces.
- Should be inspected for damage prior to use. Inconsistent weight or balance readings could result if the scale is damaged. Check for cracks in the glass or plastic surfaces. Check to ensure that the battery cover is firmly attached. Check to make sure all 4 foot pads are present and undamaged. Inspect power adapter for loose parts, fraying, or other damage.
- Should not be used if the glass top is cracked, as injury may occur.
- Should not be dropped, as this may lead to personal injury or damage to the device.
- Avoid stepping on the edge of the scale to minimize likelihood of tipping.
- Verify that the scale display is working correctly by observing
  the Power On Self Test. When the scale is first powered on,
  either through plugging in or installation of new batteries, each
  segment of the number display will light up in sequence and the
  scale will beep three times. If any of these components of the
  display does not light up, the display may be faulty, which could
  lead to inaccurate weight or balance score readings.
- Changing batteries is the only service or maintenance task that users may perform. Do not perform service or maintenance

- while in use with a patient.
- Avoid exposing the scale to magnetic fields, electromagnetic fields, external electrical influences, electrostatic discharge, pressure or variations in pressure, acceleration, or thermal ignition sources, as these conditions may damage the product.
- In the event that you observe unexpected behavior of the scale, follow the instructions listed in section 10, "Error Codes and Troubleshooting."

# 2. ABOUT THE ZIBRIO PRO SCALE AND ZIBRIO BALANCE TEST

The ZIBRIO Pro Scale measures postural stability through the ZIBRIO Balance Test, which is a 60 second test with a two-legged, open-eyed stance. Balance is measured in Brios, on a scale from 1 to 10. 10 Brios represents the best possible balance across the human population. 1-3 Brios is associated with an increased risk of falling in adults ages 65 and up. The scale also measures weight.

Score of 7 – 10: low risk of falling (green zone)
Score of 4 – 6: medium risk of falling (yellow zone)

Score of 1 – 3: increased risk of falling (red zone)

In a ZIBRIO study of over 300 adults, people who scored between 1 to 3 were three times more likely to experience a fall in the next year compared to people who scored between 7 and 10. Balance can change from one day to the next. Having poor balance can result from a variety of causes, and this device is not intended to diagnose or treat any disease or condition. Physicians should consult ZIBRIO Clinical Decision Support software. If you are not a physician, please refer your patient/client to an appropriate primary care doctor.

#### 2.1 Intended Use

The ZIBRIO Pro Scale is intended to quantify balance and weight in adults. It is intended for professional use. It is not intended for self testing, and an operator should remain with the user to spot them as they mount and dismount the scale and to spot them for the duration of the test.

The weighing function of the scale may be used by anyone weighing at least 20 lbs. However, the balance measurement algorithm is not

optimized for children, and will not give an accurate measurement of a child's balance ability. It is meant to assess balance in adults ages 18 and older and weighing at least 50 lbs. It may not assess balance accurately in the following populations: individuals with vestibular disorders, tremors, or attention and memory issues. Weights under 100 lbs are displayed with a resolution of 0.1 lbs and weights 100 pounds and above are displayed with a resolution of 1 pound. Weights are considered to have an accuracy of +/- 0.5 lbs. Balance scores are given as whole numbers between 1 and 10. Balance scores are considered accurate to nearest whole number.

#### 2.2 Resolution and Accuracy

Weights under 100 lbs are displayed with a resolution of 0.1 lbs and weights 100 pounds and above are displayed with a resolution of 1 pound. Weights are considered to have an accuracy of +/- 0.5 lbs. Balance scores are calculated using center of pressure measured over the 60 second balance test. The center of pressure measurement is considered to be accurate to +/-1.5 mm. Balance scores are displayed as whole numbers between 1 and 10. Balance scores are considered to be accurate to +/-1.

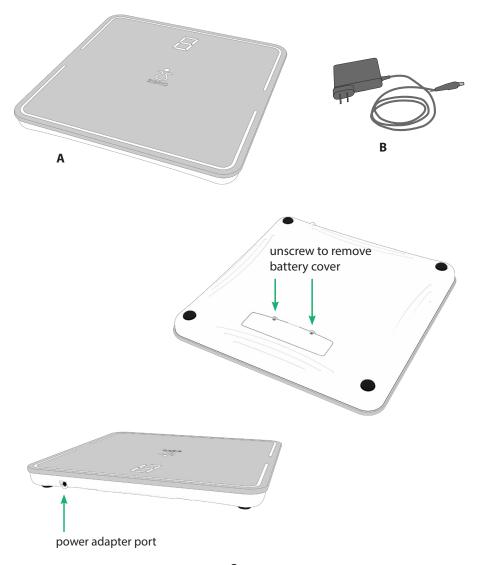
#### 2.3 Patient Contact

The glass surface of the ZIBRIO Pro Scale is the applied part, which will make contact with the patient. The patient should stand on the glass surface. The patient does not need to come in contact with any other parts of the device. The patient does not need to remove their shoes before standing on the device, although patients wearing high heeled shoes or other shoes that interfere significantly with comfortable standing may wish to do so. In the event that patients do remove their shoes, it is not necessary to remove socks. The Pro Scale may also be used barefoot if desired. If the scale is being used with shoes on, the scale does not need to be cleaned in between

uses by different patients. If the scale is being used barefoot, clean the glass surface of the scale between uses by different patients, following instructions in section 1.2. The scale does not need to be cleaned between uses with the same patient.

#### 3. WHAT'S IN THE BOX

- ZIBRIO Pro Scale (A)
- Power Adapter (B)
- User Manual
- Quick Start Guide
- Balance Test Instructions Poster



#### 4. SCALE POWER OPTIONS

#### **4.1 Power Adapter**

To power the ZIBRIO Pro scale via a wall outlet, plug the included power adapter into the port on the left side of the front edge of the scale. Then plug into a wall outlet.

#### **4.2 Battery Power**

To operate the ZIBRIO Pro scale with batteries, open the battery compartment and add 6 new AA batteries (not included). Use a Phillips head screwdriver to remove the battery cover on the back of the scale. The power adapter may still be used when batteries are inserted in the scale. When the scale is plugged in, the power adapter will override the battery power option. When operating on battery power, the batteries can be expected to power the scale for a typical service life of 1 year, or for at least 480 uses to measure the balance and weight of a single patient, whichever comes first.

If at any time your scale will not power on, the batteries may be dead. Replace dead batteries only with 6 new AA batteries. Only use batteries that are UL/IEC approved. Do not use rechargeable batteries - they will not be recharged when the unit is plugged in.

#### 5. INITIAL SETUP

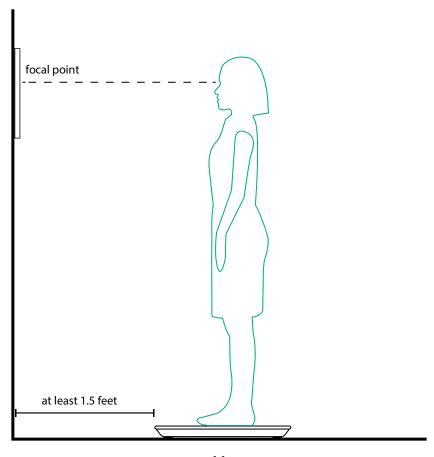
#### 5.1 Powering on the Scale

- Refer to <u>section 4</u> for explanation of how to power the scale via power cord or batteries.
- To turn on the scale, place it on a flat surface and step or press on it.

#### 5.2 Where to Put the Scale

- Place scale on a level, hard floor.
- Place the scale at least 1.5 feet from a wall, facing the wall, for a balance test. Some users who place the scale closer to wall report feeling visual discomfort during the balance test.
- Do not stack the scale on top of other equipment or place in close proximity to other electrical equipment. Portable RF communication equipment that include antennas can affect medical electrical equipment, and should be placed no closer than 12 inches (30 cm) to any part of the ZIBRIO scale, including cables specified by the manufacturer.
- Do not position the scale in a location that makes it difficult to unplug the power adapter.
- Some users feel more comfortable holding onto something for support while stepping on and off the scale. If you place the scale nearby to a piece of furniture, be aware that some users may attempt to grab onto it to steady themselves, and ensure that the furniture is secure enough for this purpose. This may be acceptable if the furniture is permanently attached to the wall, i.e. a cabinet, but if it is a tip prone piece of furniture, we recommend placing the scale out of reach of these items. If your users are in need of a helping hand, we recommend spotting them at all times as they get on and off the scale, and/ or installing a permanent grab bar next to the scale.
- Note that users cannot hang onto anything during the test, as

- this will lead to an inaccurate score.
- Be sure to have a visual focal point on the wall for users to look at during the balance test. If testing in front of a blank wall, you can attach a printout of the <u>test instructions poster</u> onto the wall at eye level. Some users have reported feeling dizzy if testing in front of a completely blank wall.
- Some users who use walkers feel more comfortable rolling their walker over the scale to assist their mount and dismount. These users should not hold onto the walker during the balance test, as this will lead to an inaccurate score.
- Place the scale in an area free from visual and auditory distractions for best results.



#### 6. USING THE ZIBRIO PRO SCALE

#### **6.1 Weight Measurement**

- 1) If the scale was moved between uses, it is important to zero the scale to get an accurate weight reading. Zero the scale by pressing on it for 2 seconds and then releasing. The display should read "0.0". If the scale was not moved since last use, skip this step.
- 2) Have the user step onto the scale and stand still. Once the weight has stabilized, the scale will display the user's weight.
- 3) By default, the ZIBRIO Pro scale will display weight in pounds. If desired, the scale display can be changed to kilograms through the ZIBRIO Balance Coach mobile app, which connects to the scale via Bluetooth. See <a href="section8">section 8</a> to learn how to do this.

#### **6.2 Administering a Balance Test**

- 1) If the scale was moved between uses, it is important to zero the scale to get an accurate weight reading. Zero the scale by pressing on it for 2 seconds and then releasing. The display should read "0.0". If the scale was not moved since last use, skip this step.
- Be sure that a visual focal point (i.e. the Balance Test Instructions Poster) is mounted to the wall at eye level for the user.
- 3) Go over the test instructions with the user:
  - a) To perform the balance test, you will need to stand as still as you can on the scale for 1 minute.
  - b) Keep feet a comfortable width apart and your hands relaxed by your sides. Do not move your hands or fingers during the test. Breathe normally.



c) Keep your eyes open during the test, and look forward. Do not look down or move your head during the test.

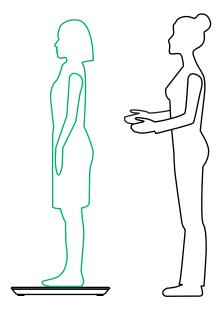


d) Do not talk or chew gum during the test.



- 4) Assist the user in stepping onto the scale. Users' feet should be a comfortable standing width apart. Their feet should not hang over any edges of the scale, and should be fairly centered.
- 5) Have the user stand still on the scale, complying with the test instructions. After a few seconds, the scale will beep and start the balance test, which lasts for 1 minute. Continue to supervise the user throughout the duration of the test to ensure that they are complying with the testing instructions. If the user is unsteady, spot them throughout the test. Remain out of eyesight

of the user so that your movements do not distract them during the test. Stand directly behind them or behind them and to one side.



- 6) At the end of the test, the scale will beep and the balance score will be displayed on the scale(1-10). After the user steps off the scale, the balance score will remain displayed for 10 seconds or until someone presses on the scale to zero it again.
- 7) If the user steps off the scale too early, makes erratic movements during the test, or another error occurs, the scale will display "Err" instead of a balance score. In this case, the test must be retaken.

#### 7. UNDERSTANDING BALANCE SCORES

- 1-3 (red) means high risk of falling today
- 4-6 (yellow) means moderate risk of falling
- 7-10 (green) means low risk of falling

Balance changes every day, and many systems affect it. The ZIBRIO Balance Score is a snapshot of a person's balance right now. Do not be alarmed if a score varies by a few points from one test to another, this is normal. Many different factors affect a person's balance score. Refer to the ZIBRIO clinical counseling material to help a person understand why they scored the way they did.

#### 7.1 What if a balance score is lower than expected?

- First check that the scale is on a firm, level surface. Do not test on carpet or uneven hard floor.
- Was it a good test? The user needs to stand as still as possible for the entire test. If they moved their head, lifted an arm to scratch their nose, or talked, for example, these movements change balance and can lower their score. If the user didn't stand still, try repeating the test to get a true measure of their balance.
- Make sure testing is taking place in a well-lit room, and not in front of a blank wall. Some users feel dizzy if they look at a blank wall during the test. Provide a picture, poster, or a focal point on the wall during the test instead. Make sure the scale is at least 1.5 feet away from the wall, as standing too close to the wall could make the user feel dizzy.
- Remember that balance changes every day. A bad night's sleep can make someone tired, and can lower their balance score by multiple points. If someone is fatigued from a hard exercise session, this might also lower their balance score.
- Remember that a score of "10" represents perfect balance, for example, an Olympic athlete at peak performance might score a 10.

## 7.2 What if someone's balance score is different every time they take the test?

- It is not unusual for balance to change from day to day, or even throughout a single day. Remember that many factors influence balance, and those are always changing. Refer to the ZIBRIO clinical counseling materials to understand why a person may have scored the way they did today.
- Some people's balance scores will fluctuate by as many as 4 points from day to day. For these users, it may be most useful to pay attention to the fall risk category/color rather than the number. For example, if their score fluctuates between 4 and 6, they are staying in the yellow category.

# 8. CHANGING SCALE SETTINGS THROUGH MOBILE APP

#### 8.1 Minimum Device Requirements

The ZIBRIO Balance Coach App is compatible with...

- Apple devices running iOS 12 and above, including:
- iPhone 5S and later.
- All iPad Air and iPad Pro models, iPad 5th generation, iPad 6th generation, iPad mini 2 and later.
- iPod touch 6th generation models.
- Android mobile phones running Android 4.0.0 and newer.

Android tablets are not supported at this time, and some Android phones with very small screens may experience display issues.

These device requirements are subject to change in future app updates. For the most up-to-date information, please visit <a href="www.zibrio.com/app">www.zibrio.com/app</a>.

#### 8.2 How to Set up the ZIBRIO Balance Coach App

- 1) Be sure the smart phone meets the requirements in <u>section 8.1</u>. The phone may need to be updated to the most recent operating system before downloading the app.
- 2) Search "ZIBRIO Balance Coach" in the Apple App Store or Google Play Store. Download and install the app.
- 3) Create an account by entering your email, password, and name.
- 4) A 6-digit numerical code will be sent to the email address you provided. This should happen within a few minutes. If you do not see the code, check your spam folder. If you still do not see the code, double-check to make sure you entered your email address correctly by filling out the "create account" page again.
- 5) Return to the ZIBRIO Balance Coach App to enter the 6-digit

- code and finish creating your account.
- 6) If you encounter any problems in the process of creating your account, visit our website at <a href="https://www.zibrio.com/support">www.zibrio.com/support</a> for FAQs and technical support.

#### 8.3 Connecting to the Scale with a Smart Phone

Note: If using an Apple device, the scale will not show up in the list of Bluetooth devices accessed from the "Settings" utility. The only way to connect to the ZIBRIO SmartScale with an Apple device is through the ZIBRIO Balance Coach app. You may connect to the ZIBRIO SmartScale through the Bluetooth utility with Android phones if desired.

When you first open the ZIBRIO Balance Coach app, it will attempt to connect to your ZIBRIO SmartScale automatically. Make sure your scale is powered on and is in close range to your phone.

When the scale is connected, the top corner of the app will display a Bluetooth symbol surrounded by a green circle. When the scale is not connected, the symbol will be red with a strike-through. When your scale is powered on and within close range to your phone, click the Bluetooth icon to connect to the scale.







Disconnected

Remember, the app can only connect to the scale when the scale is powered on and in close range. In certain situations, interference from other signals may make connection very difficult to initiate or maintain. This can happen if you are in a location with large crowds of people who are all carrying Bluetooth and wireless devices.

#### 8.4 Modifying Scale Settings

- 1) Click the menu button in the upper left corner to access the menu.
- 2) Click "Settings" to access the settings page.
- 3) Click "lb" or "kg" in the Weighing Mode box to select which unit you would like to scale to display weight in.
- 4) Click "save" at the bottom of the settings page to save your changes.
- 5) Remember that settings will only be saved to the scale when the scale is connected. You cannot modify the scale settings when the scale isn't connected.

#### 9. IMPORTANT INFORMATION

The ZIBRIO Pro Scale is Class A equipment.

#### 9.1 Optimal Temperature and Environmental Conditions

The ZIBRIO Pro Scale is intended for operation in indoor settings such as clinics, group residence facilities, gyms, or individual homes. It shall operate, without degradation, in ambient temperatures between 5 °C (41 °F) and 40 °C (104 °F), a relative humidity range of 15% to 90% (non-condensing, at a water vapor pressure up to 50 hPa, and an atmospheric pressure range of 700 hPa to 1060 hPa. The scale should be used, transported, and stored in locations where it will not be exposed to or submerged in water, and where it will not be exposed to sand, dirt, pests, or excessive dust. A buildup of sand, dirt, dust, or exposure to pests might compromise the accuracy of the device sensors. The following conditions are considered acceptable for storage and transport, including after the scale has been removed from its original packaging:

-25 °C to 5 °C, 5 °C to 35 °C at a relative humidity up to 90% (noncondensing), 35 °C to 70 °C at a water vapor pressure up to 50 hPa. If the device has been stored or transported near the extremes of these temperature ranges (above 60 °C or below -20 °C), allow 1 hour for the device to reach operating temperature at an ambient temperature of 20 °C.

#### 9.2 Bluetooth Information and Electrical Interference

The ZIBRIO Pro uses a Bluetooth Low Energy transceiver operating between 2402 MHz and 2480 MHz, with maximum EIRP measured at 1.4 dBm EIRP at 2480 MHz. This product has been certified for EMC compliance to IEC 60601-1-2; however strong

electrical fields could interfere with the Bluetooth communication for this device. Nearby electrical equipment should be repositioned if malfunctions occur in usage.

#### 9.3 Essential Performance

Essential performance is defined as "performance of a clinical function, other than that related to basic safety, where loss or degradation beyond the limits specified by the manufacturer results in an unacceptable risk." It is assumed there is no essential performance applicable to this scale.

#### 9.4 Symbols and Definitions

Applied part definition: type B

The user's feet make contact with the top glass surface of the device. The user may wear shoes, socks, or be barefoot while standing on the device.

IP Classification: The device shall experience no harmful effects when exposed to vertically dripping water equivalent to 1 mm of rainfall/minute for a test duration of 10 minutes on a base or floor with appropriate drainage so as not to allow accumulation of water.

The following symbols appearing on the product are defined as:



Consult instructions for use



Catalog number - indicates the manufacturer's catalog number so that the medical device can be identified



Serial number - indicates the manufacturer's serial number so that a specific medical device can be identified



Date of manufacture - indicates the date when the medical device was manufactured



Temperature limit - indicates the temperature limits to which the medical device can be safely exposed



Humidity limitation - indicates the range of humidity to which the medical device can be safely exposed



Alternating current



Direct current



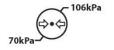
Class II equipment



Medical device manufacturer - indicates the medical device manufacturer



Type B applied part



Atmospheric pressure limitation - indicates the acceptable upper and lower limits of atmospheric pressure for transport and storage

# 9.5 Declarations of Conformity with the US Federal Communications Commission (FCC) and Industry Canada (IC) Regulations

#### **USA-FCC**

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

If this equipment does cause harmful interference to radio or television reception, which can be determined by tuning the equipment off and on, the user is encouraged to try and correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the distance between the equipment and the receiver.
- Connect the equipment to outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

#### Caution: Exposure to Radio Frequency Radiation.

This device must not be co-located or operating in conjunction with any other antenna or transmitter.

#### **CANADA - INDUSTRY CANADA (IC)**

This device complies with RSS 210 of Industry Canada.

Operation is subject to the following two conditions:

- 1) this device may not cause interference, and
- 2) this device must accept any interference, including interference that may cause undesired operation of this device.

#### Caution: Exposure to Radio Frequency Radiation.

The installer of this radio equipment must ensure that the antenna is located or pointed such that it does not emit RF field in excess of Health Canada limits for the general population; consult Safety Code 6, obtainable from Health Canada's website: http://www.hc-sc.gc.ca/ewh-semt/pubs/radiation/radio\_guide-lignes\_direct/index-eng.php.

#### MODIFICATION STATEMENT

Any changes or modifications not expressly approved by ZIBRIO, Inc could void the user's authority to operate the equipment.

#### 9.6 Emissions Limits/Group, Immunity Test Levels

### Guidance and manufacturer's declaration - electromagnetic emissions

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

	1	1
Emissions test	Compliance	Electromagnetic environment - guidance
RF emissions CISPR 11	Group 1	The device must emit electromagnetic energy in order to perform its intended function. Nearby electronic equipment may be affected.
RF emissions CISPR 11	Class B	The 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	Not applicable	
Voltage fluctuations/ flicker emissions IEC 61000-3-3	Not applicable	

## Guidance and manufacturer's declaration - electromagnetic immunity

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

Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment - guidance
Electrostatic discharge (ESD) IEC 61000-4-2	±6 kV contact ±8 kV air	±6 kV contact ±8 kV air	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30%.
Electrical fast transient/burst IEC 61000-4-4	± 2 kV for power supply lines ± 1 kV for input/output lines	Not applicable	Mains power quality should be that of a typical commercial or hospital environment.
Surge IEC 61000-4-5	± 1 kV line(s) to line(s) ± 2 kV lines(s) to earth	Not applicable	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	$ \begin{array}{l} <5 \% \ U_{T} \\ (>95 \% \ \text{dip in} \\ U_{T}) \ \text{for 0,5} \\ \text{cycle} \\ 40 \% \ U_{T} \\ (60 \% \ \text{dip in} \ U_{T}) \ \text{for 5 cycles} \\ 70 \% \ U_{T} \\ (30 \% \ \text{dip in} \ U_{T}) \ \text{for 25 cycles} \\ <5 \% \ U_{T} \\ (>95 \% \ \text{dip in} \ U_{T}) \ \text{for 5 s} \\ \end{array} $	Not applicable	Mains power quality should be that of a typical commercial or hospital environment. If the user of the Zibrio Pro requires continued operation during power mains interruptions, it is recommended that the Zibrio Pro be powered from an uninterruptible power supply or a battery.

## Guidance and manufacturer's declaration - electromagnetic immunity

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

Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment - guidance
Power frequency (50/60Hz) magnetic field IEC 61000-4-8	3 A/m	3 A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.

NOTE:  $U_{\tau}$  is the a.c. mains voltage prior to application of the test level.

Portable and mobile RF communications equipment should be used no closer to any part of Zibrio Pro, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter.

Recommend	ed se	eparation	distance	
			i	•

Conducted RF	3 Vrms	3 V	$d = 1.2 \sqrt{P}$
IEC 61000-4-6	150 kHz to 80		
	MHz		
Radiated RF	3 V/m	3 V/m	$d = 1.2  \sqrt{P}  80  MHz  to 800$
IEC 61000-4-3	80 MHz to 2.5		MHz
	GHz		

 $d = 2.3 \sqrt{P}$  800 MHz to 2.5 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<sub>a</sub>, should be less than the compliance level in each frequency range<sub>b</sub>

Interference may occur in the vicinity of equipment marked with the following symbol:

## Guidance and manufacturer's declaration - electromagnetic immunity

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

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.

<sup>a</sup> Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio 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 Zibrio Pro is used exceeds the applicable RF compliance level above, the device should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating the device.

<sup>b</sup> Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3 V/m.

#### 10. ERROR CODES & TROUBLESHOOTING

"Err" is the scale's error code, and might be displayed for the following reasons:

- The user stepped off the scale before the balance test was complete, so a score cannot be calculated. If this occurs, repeat the balance test.
- The user made erratic movements during the balance test that are not compatible with the test protocol, so a score cannot be calculated. If this occurs, repeat the balance test.
- An unknown error occurred. Repeat the balance test.

#### Other errors:

- If unusual behavior occurs during weight measurement, for example, and obviously inaccurate weight measurement, power off the scale (or wait for it to power down by itself if operating on battery power) and power back on before using again.
- If the scale is still not behaving correctly, repeat the Power On Self Test, either by unplugging and plugging back in, or by uninstalling and reinstalling the batteries. When the scale is powered back on, each segment of the number display will light up in sequence and the scale will beep three times. If any of these components of the display does not light up, the display may be faulty, which could lead to inaccurate weight or balance score readings. In this case, contact ZIBRIO.

#### 11. MAINTENANCE & SERVICE LIFE

- Inspect the scale and power adapter at least monthly for damage. Check for cracks in the glass or plastic surfaces. Check to ensure that the battery cover is firmly attached. Check to make sure all 4 foot pads are present and undamaged. Inspect power adapter for loose parts, fraying, or other damage.
- The ZIBRIO Pro Scale is factory calibrated and does not require user calibration.
- No maintenance or service is intended to be performed by the user except for changing batteries. If you believe the ZIBRIO Pro Scale needs maintenance beyond changing batteries, contact ZIBRIO for customer support.
- In the event that a replacement power adapter is needed, contact ZIBRIO for compatible replacement options. Do not use a power adapter other than one sold by ZIBRIO for use with the ZIBRIO Pro Scale.
- The ZIBRIO Pro Scale and power adapter have an expected service life of 3 years (This statement does not imply warranty coverage.)

#### 12. DISPOSAL

The ZIBRIO Pro Scale is an electronic device. At the end of its life, it may be disposed of only in manners approved for disposal of electronic devices. Contact local authorities to determine proper methods of electronics disposal in your area. The ZIBRIO Pro Scale is not considered bio-hazardous material.

#### **13. HELP**

Contact ZIBRIO to report unexpected operation or events, or if you need help. You can contact us by visiting <a href="www.zibrio.com/support">www.zibrio.com/support</a> or email us at support@zibrio.com.

Headquarters: ZIBRIO, Inc. 2450 Holcombe Blvd Suite X Houston, TX 77021 USA

#### 14. WARRANTY

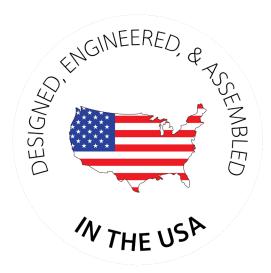
Solely for the benefit of the original buyer, ZIBRIO INCORPORATED ("ZIBRIO") warrants all new ZIBRIO Pro Scale products of its manufacture to be free from defects in material and workmanship, and will replace or repair, F.O.B., at its factory in Omaha, Nebraska, USA, or other location designated by ZIBRIO, any ZIBRIO Pro Scale products returned to it within twelve (12) months of original purchase by the buyer. Such repair or replacement shall be free of charge.

ZIBRIO warrants to the original buyer, all repaired or replaced products to be free from defects in material and workmanship and will replace or repair such products F.O.B., at its factory in Omaha, Nebraska, USA, or other location designated by ZIBRIO. Such repair or replacement shall carry a warranty of ninety (90) days from the date of repair or replacement or the balance of the new product warranty as described above, whichever is greater.

This warranty applies to all ZIBRIO Pro Scale products manufactured by ZIBRIO and is the ONLY WARRANTY GIVEN FOR THE SALE OF PRODUCTS OR SERVICES. NO WARRANTIES IMPLIED IN LAW, INCLUDING, BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE, SHALL APPLY. ZIBRIO WILL BE LIABLE, IN ANY EVENT, ONLY FOR THE PURCHASE PRICE OF THE DEFECTIVE PRODUCT, BUT NOT FOR ANY CONSEQUENTIAL DAMAGES.

This warranty may not be modified, amended or otherwise changed, except by a written document properly executed by a corporate officer of ZIBRIO.

ZIBRIO, Inc. voids the warranty if the ZIBRIO Pro Scale is opened or tampered with in any way without prior authorization from ZIBRIO, Inc.



# ZIBRIOpro USER MANUAL



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