iBALANCE® iM01™

USER MANUAL

Thank you for purchasing the My Weigh® iBalance® iM01™ digital scale. Please read all operating instructions carefully before use. This electronic scale is a precision instrument. With normal care and proper treatment, it will provide years of reliable service. For more information please visit **www.myweigh.com**

Never load the scale with more than the maximal capacity. Although the iBalance® iM01™ is designed to be extremely durable with extra overload protection built into the case, overloading will permanently damage it! Avoid any exposure to extreme heat or cold, your scale works better when operated at normal room temperature. Keep your scale in a clean environment. Dust, dirt, moisture, vibration, air currents and/or a close proximity to other electronic equipment can all cause an adverse effect on the reliability and accuracy of your scale. Handle with care. Gently apply all items to be weighed onto tray top. Avoid shaking, dropping or otherwise shocking the scale. Scales are delicate instruments and unlike cellular phones, scales have delicate sensors that determine how much an item weighs. If you drop or shock your scale, these sensors "feel" the shock and are sometimes destroyed. This happens with all digital scales. We design our scales to be as resistant to shock or drops as possible, however there is no way for us to protect 100% against load cell or sensor damage.

Failure to follow these instructions will void your warranty.

Always allow the scale to acclimate to normal room temperature for at least one hour before use. Give your scale sufficient warm up time. Usually 30-60 seconds before calibration to give the internal components a chance to stabilize.

PRECAUTIONS BEFORE USING THE BALANCE

1. Matter charged with static electricity can affect accuracy. Discharge all static electricity. For example, one method is to use Static-Guard spray, and spray it on both sides of the weighing platform.
2. Before the initial use, please remove the protection screw. Re-install this screw before transport to help avoid possible damage.
3. The balance must be in an exactly horizontal position in order to achieve accurate measurement results. In order to bring the balance into a horizontal position, the adjustable feet are turned either clockwise or counter-clockwise until the air bubble on the front panel is in the center of the marked circle.
4. Please use an independent power outlet to avoid interference from other electrical appliances.
5. Don't put any object on the platform before powering on.
6. When possible please allow the scale to warm up for several minutes before operation.
7. Items should always be placed on the center of the platform when being weighed.
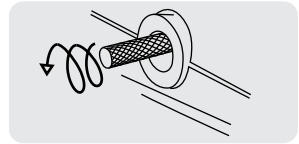8. For optimum accuracy, recalibrate before each use.

SCALE FEATURES
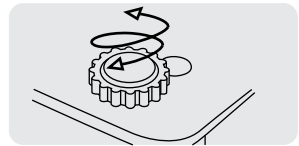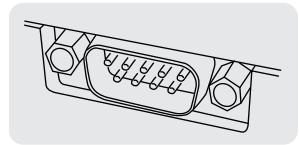
OPTIONAL CLEAR WIND SCREEN
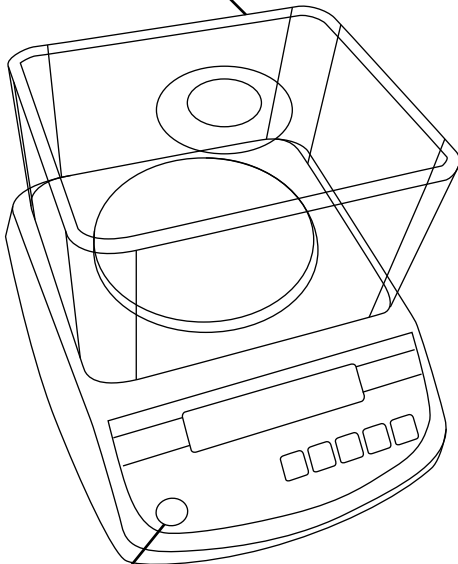
PROTECTION SCREW
on the left side of the scale

ADJUSTABLE FEET
on bottom of each corner of the scale

DATA TRANSMISSION PORT
on right side of the scale

AIR BUBBLE LEVEL

DISPLAY SYMBOLS

→0←	Scale is in ZERO mode.
→↕	Scale is in TARE mode.
🔋	BATTERY needs recharging.
👁	The display reading is STABLE.
pcs	Scale is in COUNT mode.
ct	Unit is CARAT.
ozt	Unit is TROY OUNCE.
g	Unit is GRAM.
In charge	Scale is in the process of RECHARGE.

KEYPAD FUNCTIONS

ON/OFF power switch.	
SAMPLING & COUNTING.	
UNIT(*g* , *ozt* or *ct*) selection.	
→↕	TARE is used to deduct the weight of an item or container. The symbol →↕ will appear and reading will go to zero. Press it again to exit the tare mode (when empty), the tare indication will disappear.
→0←	ZERO is used to return the display to zero if a small weight reading is left while unloaded/empty.

1.

COUNTING FUNCTION

1. Press ⚖ , the display will show " 10Cnr" (means sample size is 10 pcs)
2. Press ⏻ again and again, "10、" "20、" "50、" "100" pcs will appear in succession.
   Stop at the one you want to use.
3. Put the exact quantity of samples desired on the platform and press ⚖ , the set sample size will appear.
4. Keep adding objects to be counted on the pan, the total number of the objects will be displayed.
   If the unit weight is too small for the counting resolution, the display will show "ErrPcS"

ERROR MESSAGES

When an applied load exceeds the capacity, "**-----9**" will appear on the display. Remove excessive load immediately. The unit may return to normal operation. Remember: You can permanently damage the scale and void your warranty by overloading it!

The LCD will display "**ERR 1**" if the weight placed on the platform is incorrect during calibration.

POWER SUPPLY

The iMO1™ is powered by the **DC 6V/1.3Ah rechargeable sealed lead-acid battery**
or directly by the **8.5V / 0.2A AC power adaptor**.

When the ▭ symbol appears, it indicates that the battery needs to be recharged. The balance will automatically shut off when power voltage goes down to 5.2V ± 0.15V. Low voltage may also cause inaccuracy or instability.

CALIBRATION

   Press and hold ⚙ (do not release) and power the scale on with ⚙ , release ⚙ when the LCD shows "CAL".
2. Press ⚙ again, it shows "000000". This is where you would input the calibration weight you are going to use to calibrate (500 grams is recommended). Use ⏻ to cycle through the 6 zeros shown on the screen and use ⚖ on the selected digit to adjust selected digit. To calibrate a the recommended 500 grams, the screen must read "000500". Once this is set, place the 500 gram calibration weight on the tray.
3. Wait for 3 seconds, then press ⚙ to finish the calibration process.

WEIGHT RESPONSE SPEED

Press and hold ⏩ (do not release) and power the scale on with ⚙ . Wait until the display shows "nb0", "nb1", "nb2", or "nb3". You can now release ⏩ . Press ⏩ again to select your response speed. (nb0: slowest, nb3 fastest) Press ⚙ to confirm. You will then go to select outer division. The display will show "d xxx"(xxx: current division). You can press ⏩ to select, and press ⚙ to confirm. After that the scale will return to normal weighing mode.

RANGE OF ZERO TRACK AND ZERO DISPLAY SELECTION

1. Press and hold ⚖ (do not release) and power the scale on with ⚙ . Wait until the display shows "0.5d. 1.0d. 1.5d. 2.0d 3.0d". Then press ⏩ to select the range of zero tracking and press ⚙ to confirm.

2. The display will then show "ZEr-S" or "ZEr-L" press ⟳ to select the zero display range. (ZEr-S means 0d and ZEr-L means ±3.0d) Press ⊙ to confirm.

4. To select the baud rate press ⟳ , you can choose between 1200, 2400, and 9600. Press ⊙ to confirm.

5. You can choose the communication method by pressing ⟳ to rotate/revolve (Co: send in succession, st: send steadily), press ⊙ for confirmation. After that the scale will return to normal weighing mode.

DATA TRANSMISSION – SERIES RS-232 INTERFACE (only for communication)

1. iBalance EIA-RS232 C's UART signal
2. Format

(1) Baud rate:	1200 bps 2400 bps 4800bps 9600 bps
(2) Data bits:	8 bits
(3) Parity bit:	none
(4) Stop bit:	1 bit
(5) Code ASCII	

DATA FORMAT :

HEAD1 HEAD2 DATA   UNIT   CR
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

HEAD1 (2BYTES)   HEAD2 (2BYTES)
OL - overload   NT - net weight mode
ST - stable   US - unstable

DATA(8BYTE)

2D (HEX) = "- "(negative sign)   20 (HEX) = " "(blank)
2E (HEX) = "."(decimal point)

UNIT (4 byte)

g = 20 (HEX);	20 (HEX);	20 (HEX);	67 (HEX)
kg = 20 (HEX);	20 (HEX);	6B (HEX);	67 (HEX)
ct = 20 (HEX);	20 (HEX);	63 (HEX);	74 (HEX)
ozt = 20 (HEX);	6F (HEX);	7A (HEX);	74 (HEX)
CR = 0A (HEX);	0D (HEX)		

TRANSMISSION EXAMPLE

stable net + 0.168 g

| HEAD, | HEAD, | DATA | UNIT | CR |
| ST, | NT | + 0.168 | g | 0A, 0D |

SPECIFICATIONS

Capacity	1000g x 0.01g	Units	g, ozt, ct
Auto-OFF	2 min.		
Scale dimension	200mm x 240mm x 80mm		
Tray dimension	116mm diameter		
Net/gross weight	1200g		
Operating temperature	Optimum 10-40°C (50-104°f)		
Power Source	DC 6V/1.3Ah rechargeable sealed lead-acid battery or 8.5V / 0.2A AC/DC power adaptor		
Tare range	Up to scale's maximum capacity		
Zero range	± 5% of max. capacity		

PRECISION 0.01g

C E

LIFETIME 30 INTERNATIONAL WARRANTY LIFETIME/30 YEAR

www.myweigh.com