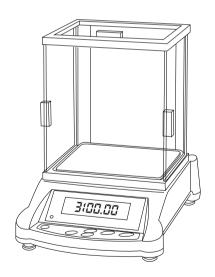


BALANCE i3100



USER MANUAL

BALANCE 13100







Capacity 3100g x 0.01g 6.8lb x 0.0002oz

Thank you for purchasing the My Weigh® iBalance® 3100™ 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**

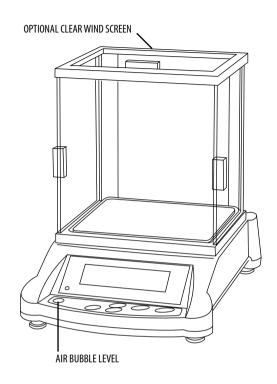
Never load the scale with more than the maximum capacity. Although the iBalance® 3100™ is designed to be extremely durable with extra overload protection built into the case, overloading will permanently damage it! Avoid any exposure to extreme heat or cold, your scale works better when operated at normal 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.

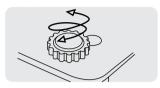
Always allow the scale to acclimate to normal room temperature for at least one hour before use. Give your scale sufficient warm up time. Usually 30-60 seconds before calibration to give the internal components a chance to stabilize.

PRECAUTIONS BEFORE USING THE BALANCE

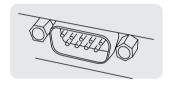
- Matter charged with static electricity can affect accuracy. Discharge all static electricity. For example, one method is to use Static-Guard spray, and spray it on both sides of the weighing platform.
- 2. The balance must be in an exactly horizontal position in order to achieve accurate measurement 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.
- 3. Please use an independent power outlet to avoid interference from other electrical appliances.
- 4. Don't place any objects on the platform before powering on.
- 5. When possible please allow the scale to warm up for several minutes before operation.
- 6. Items should always be placed on the center of the platform when being weighed.



ADJUSTABLE FEET on bottom of each corner of the scale



DATA TRANSMISSION PORT on right side of the scale



DISPLAY SYMBOLS

→ ○ ← Scale is in 7FR0 mode.

• → Scale is in TARE mode.

• F BATTERY needs recharging.

• The display reading is STABLE.

KEYPAD FUNCTIONS



ON/OFF power switch.



SAMPLING & COUNTING.



UNIT 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.



CAL is used for entering calibration and other function settings

POWER SUPPLY

The i3100[™] is powered by **DC 6 V rechargeable battery** or directly by **power adapter.**

OPERATION INSTRUCTIONS

Weighing Procedures

1.Press (1) to turn on the scale.

When the power is turned on, the scale will countdown for a few seconds and "0" will appear on the display.

2.Select the weighing unit with key.

Press to select a weighing unit.

Once the unit has been selected, the selected unit will be displayed next to the weight value.

3.Start weighing

Verify the reading is "0". Place objects on the weighing platform to weigh.

When the reading becomes stable, the stable indicator is displayed.

Tare

Tare can be used for eliminating the weight value of an empty container. Place an empty container on the scale and press 🚳 . Then place the items to be weighed in the container. NOTE: When all weight is removed from the weighing tray, the tared value of a container will be displayed as a negative number. Press 🚳 again to return the scale to zero.

ERROR MESSAGES

When an applied load exceeds the capacity, "-----" 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" if the weight placed on the platform is incorrect during calibration.

CALIBRATION

When to calibrate - calibration is RARELY required.

Calibration may be required when the scale is first set up for use, or if the scale is moved to a different altitude or new location. This is necessary because the weight of a mass in one location is not necessarily the same in another location. Also, with time and use, mechanical deviations can occur.

How to calibrate: **you must have an accurate 1kg weight or combination of weights in order to calibrate**

- 1. Press and hold (A), release when the LCD shows "CAL".
- 2. The display now shows "1000.00". This is where you input the calibration weight you are going to use to calibrate (1000 grams is recommended). Use to cycle through the numbers shown on the screen and use (a) on the selected digit to adjust selected digit. To calibrate using the recommended 1000 grams, the screen must read "1000.00". Once this is set, place the 1000 gram calibration weight on the tray.
- 3. The display will show "OK" and return to normal weighing mode. Calibration is complete.

COUNTING FUNCTION

- 1. Press 🕏 to cycle through the weighing modes until the display will show "CA 10 PCS" (means sample size is 10 pcs)
- 2. Press (a) to toggle sample size, "10", "20", "50", "100", "200", "500", "1000" pcs will appear in. Stop at the one you want to use.
- 3. Put the exact quantity of samples desired on the platform and press ②, 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 "Err"
- 5. To return to normal weighing press 🕏

WEIGHT RESPONSE SPEED

The i3100 allows you to adjust the scale reaction time and division selction.

- 1. Press and hold ((do not release) and power the scale on with (). Wait until the display shows "nb0 nb4" and release
- 2. Press 🕏 to select your response speed. (nb0: fastest, nb4 slowest) Press 💿 to confirm.

COMMUNICATION AND BACKLIGHT

1. Press and hold (a) and press (1) to power the scale on. The scale will power on and go through the self test.

COMMUNICATION

- 2. The scale should now read "bAUd" followed by "12", "24", "48" or "96". These values represent the baud rate settings: 1200, 2400, 4800, 9600.
- 3. Use (a) to scroll through the settings and press (b) to confirm.
- 4. The display will now read "Pr" (Press Sending), "Co" (Stable Sending" or "St" (Continuous Sending)
- 5. Use **(a)** to scroll through the settings and then press **(b)** to confirm

BACKLIGHT

- 6. The display should now read "bL On" (Backlight ON), "bL OFF" (Backlight OFF) or "bL AUTO" (Automatic Backlight).
- 7. Use **(a)** to scroll through the settings and press **(b)** to confirm
- 8. Once (a) is pressed the scale will return to normal weighing.

SELECTING DESIRED WEIGHING MODES

The 3100™ comes with a preset 9 units with the option to add another 9 units if required. To enable or disable each unit weighing modes follow these steps:

- 1. Press and hold and together, then press and release of, the scale will power on. Release all the keys when the display shows "PASS".
- 2.Press 4 times and the display will show "YES" and the corresponding unit. Press again to enable (yes) or disable (no) the selected unit.
- 3. Press To move to the next unit. The scale will return to normal weighing mode when all the unit settings are finished.

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

1. iBalance 0232C,s -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 hit

(5) Code ASCII

DATA FORMAT:

HEAD1 HEAD2 DATA UNIT CR 123 456 7891011121314151617 181920 2122232425

HEAD1 (2BYTES) OL - overload

HEAD2 (2BYTES) NT - net weight mode

ST - stable

US - unstable

DATA(8BYTE)

2D (HEX) = "-"(negative sign) 20 (HEX) = " "(blank)

2E (HEX) = ". "(decimal point)

UNIT (4 byte)

q = 20 (HEX);20 (HEX): 20 (HEX): 67 (HEX) ka = 20 (HEX); 20 (HEX);6B (HEX): 67 (HEX) ct = 20 (HEX); 20 (HEX);63 (HEX); 74 (HEX)

7A (HEX):

74 (HEX)

ozt = 20 (HEX); 6F (HEX);CR = OD (HEX); OA (HEX)

TRANSMISSION EXAMPLE

stable net $+ 0.168 \, q$

HEAD, HEAD, DATA UNIT (R ST. NT +0.168 a OA, OD

ADDITIONAL UNITS

PRESET UNITS

GRAM ٠q

٠ct CARAT OLINCE • 07

TROY OUNCE • ozt

٠lb POUND

• dr DRAM • an GRAIN (UK) dwt PENNY WEIGHT

gsm GRAMS PER METRIC SOUARED

• MM MOMME (JPN)

٠tlJ JEWELRY TAEL (HONG KONG)

• tl.T TAEL (TWN)

• tl.H TAEL (HONG KONG)

٠t TOLA (INDIA) • 1/8 1/8 OUNCE

• 1/4 1/4 OUNCE

• TMr TOLA, MASHA, RATTI

• TAr TOLA, ANNIE, RATTI

SPECIFICATIONS			
Capacity	3100g x 0.01g	Units	g, ct, oz, ozt, lb, dr, gn, dwt, gsm, PCS , MM, tl.J, tl.T. tl.H, t, 1/8, 1/4, TMr, TAR
Scale dimension		267mm x 191mm x 70mm	
Tray dimension		127mm x 146mm	
Scale Weight		1100g	
Operating temperature		Optimum 10-40°C (50-104°f)	
Power Source		DC 6 V Rechargeable Battery or power adaptor	
Tare range		Up to scale's maximum capacity	













