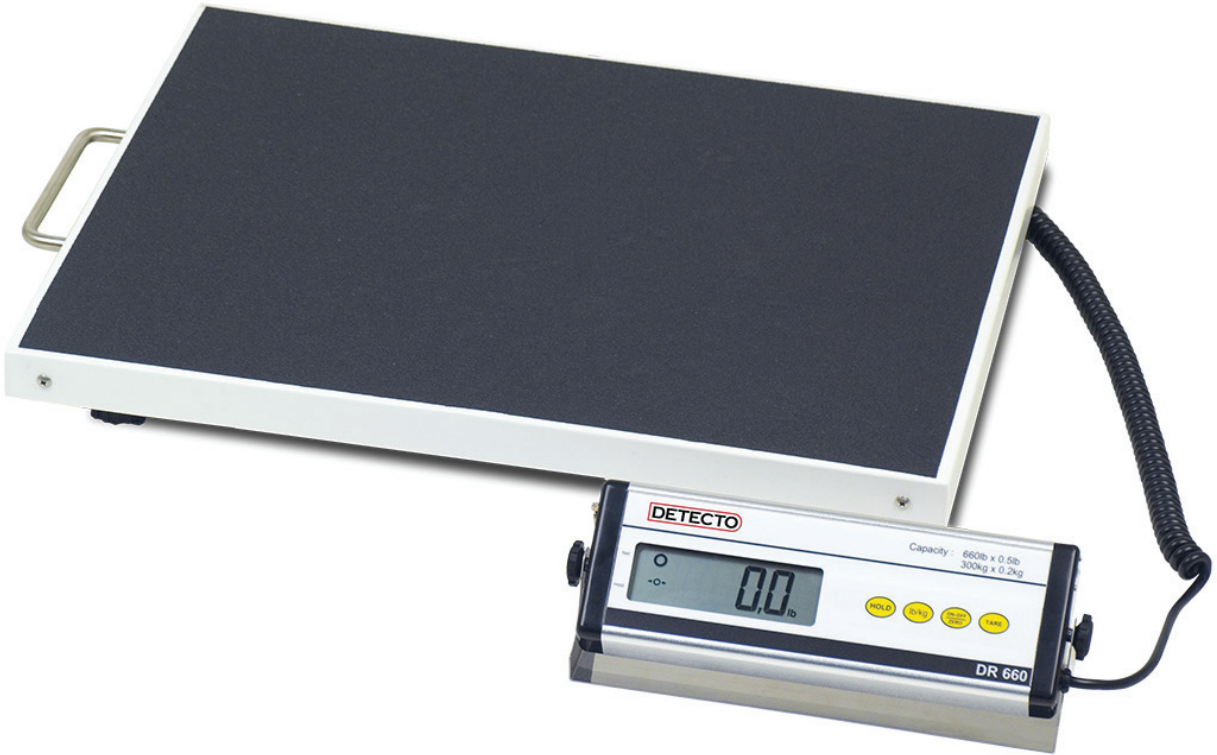


DETECTO®



MODEL DR660

Bariatric Scale

Owner's Manual

TABLE OF CONTENTS

| | |
|----------------------------|---|
| Introduction | 1 |
| Specifications | 1 |
| Installation | 2 |
| Display Functions | 3 |
| Key Functions | 4 |
| Operation | 5 |
| Configuration | 6 |
| Gravity Compensation | 7 |
| Display Message | 8 |
| Care and Maintenance | 8 |

Proper Disposal

When this device reaches the end of its useful life, it must be properly disposed of. It must not be disposed of as unsorted municipal waste. Within the European Union, this device should be returned to the distributor from where it was purchased for proper disposal. This is in accordance with EU Directive 2002/96/EC. Within North America, the device should be disposed of in accordance with the local laws regarding the disposal of waste electrical and electronic equipment.

It is everyone's responsibility to help maintain the environment and to reduce the effects of hazardous substances contained in electrical and electronic equipment on human health. Please do your part by making certain that the device is properly disposed of. The symbol shown to the right indicates that this device must not be disposed of in unsorted municipal waste programs.



FCC Compliance Statement

This equipment generates uses and can radiate radio frequency and if not installed and used in accordance with the instruction manual, may cause interference to radio communications. It has been tested and found to comply with the limits for a Class A computing device pursuant to Subpart J of Part 15 of FCC rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment. Operation of this equipment in a residential area may cause interference in which case the user will be responsible for taking whatever measures necessary to correct the interference.

All rights reserved. Reproduction or use, without express written permission, of editorial or pictorial content, in any manner, is prohibited. No patent liability is assumed with respect to the use of the information contained herein.

While every precaution has been taken in the preparation of this manual, the Seller assumes no responsibility for errors or omissions. Neither is any liability assumed for damages resulting from the use of the information contained herein. All instructions and diagrams have been checked for accuracy and ease of application; however, success and safety in working with tools depend to a great extent upon individual accuracy, skill, and caution. For this reason, the Seller is not able to guarantee the result of any procedure contained herein. Nor can they assume responsibility for any damage to property or injury to persons occasioned from the procedures. Persons engaging in the procedures do so entirely at their own risk.

INTRODUCTION



Thank you for purchasing our DETECTO Model DR660 Bariatric Scale. The DR660 is equipped with a rechargeable battery pack that (after 14 hours of charging) can provide approximately 8 hours of continuous use.

This manual will guide you through the setup and operation of your scale. Please read it thoroughly before attempting to operate this scale and keep it handy for future reference.

SPECIFICATIONS

| | |
|-----------------------------|---|
| Weight Display: | LCD, 5 Digit, with decimal 1.0" Characters |
| Dimensions of Display head: | 10.63" W x 3.54" D x 1.77" H (270 mm x 90 mm x 45 mm) |
| Platform Size: | 21.5" W x 17.2" D x 1.97"H (561 mm x 444 mm x 53 mm) |
| Zero: | Established on power up routine and maintained by auto-zero circuitry. |
| Power: | Built-in rechargeable battery pack (7.2VDC/1200mA) or 110-240 VAC 50/60Hz powering a 15 VDC 300 mA wall plug-in UL/CUL listed power adapter |
| Tare: | 100% of full scale capacity |
| Temperature: | 40 to 105°F (5° to 35°C) |
| Humidity: | 25% ~95% RH |
| Capacity and Division: | 660lb x 0.5lb (300kg x 200g) |
| Keys: | HOLD, lb/kg, ON/ZERO/OFF, TARE |
| Features: | Low battery indicator, Power saving selectable timing auto shut-off |
| Weight: | 28 Lbs (12.5 kg) |

| |
|--|
| Serial Number _____ Date of Purchase _____ Purchased Form _____ |
| RETAIN THIS INFORMATION FOR FUTURE USE |

| | |
|--|---|
| PRECAUTIONS | |
| Before using this instrument, read this manual and pay special attention to all "WARNING" symbols: | |
|  IMPORTANT |  ELECTRICAL WARNING |

INSTALLATION

Unpacking

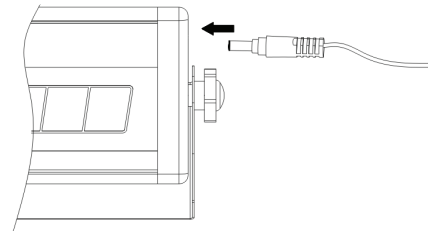
Before beginning installation of your scale, make certain the instrument has been received in good condition. When removing the scale from its packing, inspect it for signs of damage, such as exterior dents and scratches. Keep the carton and packing material for return shipment if it should become necessary. It is the responsibility of the purchaser to file all claims for any damages or loss incurred during transit.

1. Remove the weight display, scale base assembly, hardware pack, and power adapter from the shipping carton.
2. Remove the four leveling feet from the hardware pack and install them in each corner of the bottom of the scale base assembly. **Note: Leveling feet must be in place to operate the scale.**
3. For best results, place the scale on a flat-level surface.
4. Adjust leveling feet, to ensure that the scale will sit level.
5. Plug in the 15VDC adapter to use the scale and to begin charging the battery pack. Refer to the Power Adapter or Battery Pack sections below for more instructions.
6. The scale is now ready for use.



Power Adapter

To apply power to the scale using the included 15VDC, 300 mA power adapter, insert the plug from the power adapter cable into the power jack on the right side of the indicator and then plug the power adapter into the proper electrical outlet. The scale is now ready for operation.



Battery Pack

The scale uses a 7.2VDC, 1200 mA built-in rechargeable battery pack. The DR660 can operate for approximately 8 hours of continuous use with a fully charged battery pack.

Battery Charging

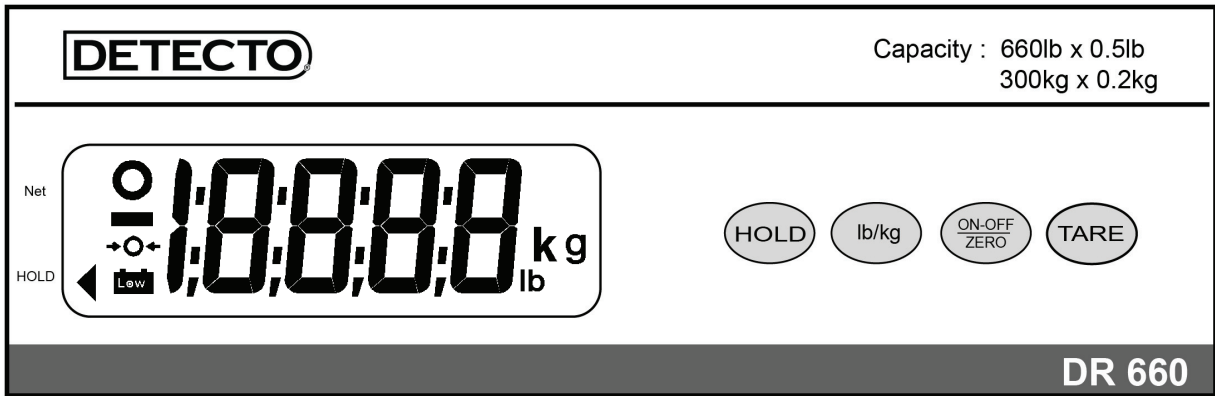
To recharge the battery pack, the power adapter must be connected to an AC power outlet and plugged into the scale. It will take approximately 14 hours to fully recharge the battery pack in the scale. While the batteries are charging the DR660 can still be operated. Note that charging the battery pack for more than 14 hours *will not* damage it.

If the power adapter is disconnected before 14 hours, the scale will continue to charge the battery pack when the power adapter is plugged back in.

Low Battery

When the battery pack is near the point where it needs to be recharged, a low battery indicator on the display will turn on. If the battery voltage drops too low for accurate weighing, the scale will automatically shut off and you will be unable to turn it back on. When the low battery indicator is displayed, the operator should plug the power adapter into the scale and then into the proper electrical wall outlet. The scale will begin charging the battery pack.

DISPLAY FUNCTIONS



The display functions are turned on to indicate that the scale display is in the mode corresponding to the function label or that the status indicated by the label is active.

O

This is turned on when the weight display is stable.



This is turned on when a negative (minus) weight is displayed.



This is turned on when the scale weight has been zeroed.



This is turned on when the battery pack is near the point it needs to be recharged.

◀ (HOLD)

This is turned on after pressing the **HOLD** key.

kg

This is turned on to indicate that the displayed weight is in kilograms.

lb

This is turned on to indicate that the displayed weight is in pounds.

KEY FUNCTIONS

HOLD

1. Press the **HOLD** key and the arrow in the left bottom flashes. When the loaded weight is above 3.3 lb /1.5 kg and stable, the arrow stops flashing.
2. To disable the hold function, press the **HOLD** key again, and the arrow disappears.
3. Press to confirm the setting for each menu.

lb/kg

1. Press to change the weighing units to the alternate units of measurement (if selected during the configuration of the scale).
2. Press to select the menu in the CONFIGURATION mode.

ON-OFF / ZERO

1. Press and release to turn on the scale.
2. Press and release to turn the scale off.
3. Press to reset the display to zero up to 20% of the scale capacity.

TARE

1. When there is a load on the scale, press this key to return to zero.
2. 2. Press and hold for 3 seconds to enter Configuration mode.



DO NOT operate the keypad with pointed objects (pencils, pens, etc). Damage to the keypad resulting from this practice is NOT covered under warranty.

OPERATION

TURN THE SCALE ON

Press the **ON-OFF / ZERO** key to turn the scale on.

The scale will display **8888** then change to the selected weighing units.

SELECT THE WEIGHING UNIT

Press the **lb/kg** key to alternate between the selected weighing units. **NOTE!** Multiple weighing units must be enabled during configuration for this function to be operational.

WEIGH

Place the item to be weighed on the scale platform. Wait a moment for the scale display to stabilize, then read the weight.

TO RE-ZERO THE WEIGHT DISPLAY

To re-ZERO the weight display, press the **ON-OFF / ZERO** key and continue. The scale will re-ZERO until 20% of full capacity is reached.

TO TARE THE WEIGHT DISPLAY

To tare the weight display, press the **TARE** key and continue. The scale will re-TARE until full capacity is reached.

TO HOLD THE WEIGHT DISPLAY

To hold the weight display, press the **HOLD** key. The weight will be held until the **TARE** key or **HOLD** key is pressed again.

CONFIGURATION

The scale has been pre-configured at the factory and should not require configuration for use in most applications. If the factory settings do not meet the requirements of your application, the following describes the steps to configure the scale.

TO BEGIN CONFIGURATION:

1. Press the **ON-OFF / ZERO** key to turn on the scale.
2. Press and hold the **TARE** key for 3 seconds.
3. When the display shows $\boxed{5.5t}$, release the **TARE** key to enter the CONFIGURATION mode.
4. The display will change to show \boxed{Unit} .

WEIGHING UNITS

To select “kg” (kilogram) weighing units:

1. With the display showing \boxed{Unit} , press the **HOLD** key.
2. The display will change to show “kg”.
3. Press the **HOLD** key to display the kg status.
4. Press the **lb/kg** key to toggle between:
 - Enable (display will change to \boxed{On}) or
 - Disable (display will change to \boxed{OFF}).
5. Press the **HOLD** key.
6. Press the **lb/kg** key 3 times. The display will change to \boxed{Unit} .
7. Proceed to AUTOMATIC SHUTOFF.

To select “lb” (pounds) weighing units

1. With the display showing \boxed{Unit} , press the **HOLD** key and then the **lb/kg** key. The display will change to show “lb”.
2. Press the **HOLD** key to display the lb status.
3. Press the **lb/kg** key to toggle between:
 - Enable (display will change to \boxed{On}) or
 - Disable (display will change to \boxed{OFF}).
4. Press the **HOLD**.
5. Press the **lb/kg** key 2 times. The display will change to \boxed{Unit} .
6. Proceed to AUTOMATIC SHUTOFF.

AUTOMATIC SHUTOFF

1. With the display showing \boxed{Unit} , press the **lb/kg** key. The display will change to show \boxed{ROFF} .
2. Press the **HOLD** key to begin selection of the automatic shut-off time (in seconds). The display will change to show $\boxed{120}$.
3. Press the **lb/kg** key to toggle through the selections, *120, 180, 240, 300, or OFF*.
4. When the desired time is displayed, press the **HOLD** key. The display will change to show \boxed{ROFF} .
5. Proceed to GRAVITY COMPENSATION.

CONFIGURATION, CONT.

GRAVITY COMPENSATION

1. With the display showing `ROFF`, press the **lb/kg** key 4 times. The display will change to show `GRA`.
2. Press the **HOLD** key.
 - To Enable the Gravity Compensation mode, press the **lb/kg** key. The display will change to `On`.
 - To Disable the Gravity Compensation mode, press the **lb/kg** key. The display will change to `OFF`.
3. Press the **HOLD** key again. The display will change to show `GRA`.
4. Press the **lb/kg** key 3 times.
5. The display will change to show `End`.
6. Press the **HOLD** key to save the settings and reset the scale.
7. Setup is complete.

GRAVITY COMPENSATION

The Gravity Compensation for your scale has been pre-configured at the factory and should not require changing in most locations. If the factory settings do not meet the requirements of your location, contact the factory for the value for your location.


With `GRA` enabled from the function setting of the Configuration mode, the scale will use the factory set value of 9.796 for the Gravity Compensation.

If the `GRA` is disabled, the scale will use the value obtained from the factory and entered by the operator for the Gravity Compensation.

TO CHANGE THE GRAVITY COMPENSATION VALUE

1. Press the **ON/OFF** key to turn on the scale.
2. Press and hold the **lb/kg** key for 3 seconds to enter Gravity Compensation mode, (the display will show 9.796 or the current value).
3. Enter the desired gravity value. Press the **lb/kg** key to choose a number from 0 to 9, and press the **HOLD** key to move to the right digit.
4. Press the **TARE** key (to confirm the entered gravity) and return the scale to the normal operating mode.

DISPLAY MESSAGES

| DISPLAY | MEANING |
|---|------------------------------------|
|  | Low battery indication |
| <i>ErrE</i> | E ² prom Error |
| <i>ErrL</i> | Zero count too low |
| <i>Err</i> | Over Load / Zero count too high |

CARE AND MAINTENANCE

The heart of the DR660 Bariatric Scale is a precision load cell located in the center of the scale base. It will provide accurate operation indefinitely if protected against overload of scale capacity, dropping items on the scale, or other extreme shocks.

- **DO NOT** submerge scale or display in water, pour or spray water directly on them.
- **DO NOT** use acetone, thinner, or other volatile solvents for cleaning.
- **DO NOT** expose scale or display to direct sunlight or temperature extremes.
- **DO NOT** place the scale in front of heating/cooling vents.
- **DO** clean scale and display with a damp soft cloth and mild non-abrasive detergent.
- **DO** remove power before cleaning with a damp cloth.
- **DO** provide clean AC power and adequate protection against lightning damage.
- **DO** keep surroundings clear to provide clean and adequate air circulation.

STATEMENT OF LIMITED WARRANTY

DETECTO warrants its equipment to be free from defects in material and workmanship as follows: DETECTO warrants to the original purchaser only that it will repair or replace any part of equipment which is defective in material or workmanship for a period of **two (2) years from date of shipment**. Detecto shall be the sole judge of what constitutes a defect.

During the **first ninety (90) days** DETECTO may choose to replace the product at no charge to the buyer upon inspection of the returned item.

After the first ninety (90) days, upon inspection of the returned item, DETECTO will repair or replace it with a remanufactured product. The customer is responsible for paying for the freight both ways.

This warranty does not apply to peripheral equipment not manufactured by DETECTO; this equipment will be covered by certain manufacturer's warranty only.

This warranty does not include replacement of expendable or consumable parts. This does not apply to any item which has deteriorated or damaged due to wear, accident, misuse, abuse, improper line voltage, overloading, theft, lightning, fire, water or acts of God, or due to extended storage or exposure while in purchaser's possession. This warranty does not apply to maintenance service. Purchased parts will have a ninety (90) day repair or replacement warranty only.

DETECTO may require the product to be returned to the factory; item(s) must be properly packed and shipping charges prepaid. A return authorization number must be obtained for all returns and marked on the outside of all returned packages. DETECTO accepts no responsibility for items lost or damaged in transit.

Conditions Which Void Limited Warranty

This warranty shall not apply to equipment which:

- A.) Has been tampered with, defaced, mishandled or has had repairs and modifications not authorized by DETECTO.
- B.) Has had serial number altered, defaced, or removed.
- C.) Has not been properly grounded according to Detecto's recommended procedure.

Freight Carrier Damage

Claims for equipment damaged in transit must be referred to the freight carrier in accordance with freight carrier regulations.

This warranty sets forth the extent of our liability for breach of any warranty or deficiency in connection with the sale or use of the product. DETECTO will not be liable for consequential damages of any nature, including but not limited to, loss of profit, delays or expenses, whether based on tort or contract. Detecto reserves the right to incorporate improvements in material and design without notice and is not obligated to incorporate improvements in equipment previously manufactured.

The foregoing is in lieu of all other warranties, express or implied including any warranty that extends beyond the description of the product including any warranty of merchantability or fitness for a particular purpose. This warranty covers only those DETECTO products installed in the forty-eight (48) contiguous continental United States.



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