

DETECTO®



VET75

DIGITAL VETERINARY SCALE

Owner's Manual

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 designed within the limits for a Class A computing device pursuant to Subpart J of Part 15 of FCC rules 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.

You may find the booklet "How to Identify and Resolve Radio-TV Interference Problems" prepared by the Federal Communications Commission helpful. It is available from the U.S. Government Printing Office, Washington, D.C. 20402. Request stock No. 001-000-00315-4.

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DISCLAIMER



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 the individual's 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.

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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

INTRODUCTION

Thank you for purchasing our Detecto Model VET75 Digital Veterinary Scale. The VET75 comes complete with a one-piece platform and base.

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

SPECIFICATIONS

Capacity:	75 lb x 0.02 lb, 1232 oz x 0.5 oz, 35 kg x 0.01 kg
Platform Size:	20 in L x 14 in W x 2 in H (50 cm L x 35 cm W x 5 cm H)
Weight Display:	1.0-inch (25 mm) LCD with 4 1/2 active digits
Weight Units:	lb, kg, oz, lb/oz
Power Requirements:	9V battery (not included) or a 100 to 240V AC 9V DC 300 mA wall plug-in UL/CUL listed AC power adapter (not included)
Tare:	100% of scale capacity
Keys:	TARE/ON/OFF, Kg / Lb, MEMORY
Operating Environment:	Temperature Range: 41 to 95 °F (+5 to +35 °C)
Humidity:	35% ~ 90% RH

FEATURES

- Memory function to recall a stored weight value or to add to a stored value of weight.
- Selectable Auto Shut-Off feature (up to 5 minutes) turns the scale off when not used.
- Zero is established on a power-up routine and maintained by auto-zero circuitry.
- HOLD function to allow the animal's weight to be retained after leaving the platform.
- Designed for smaller pets, with a sturdy and easy-to-clean weighing platform.

UNPACKING THE SCALE

Before beginning the installation of your scale, make certain the instrument has been received in good condition. When removing the scale from its carton, remove all plastic wrapping, foam fillers, and cardboard material from the scale and inspect it for any 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.

SCALE SETUP

The VET75 Digital Veterinary Scale can be used in a fixed location with a 9V DC 300 mA AC power adapter (not included) or as a portable scale with a 9V battery (not included).

AC Power Adapter

To apply power to the VET75 using the 100 to 240V AC 9V DC 300 mA wall plug-in UL/CUL listed AC power adapter, insert the plug from the power adapter cable into the power jack on the right side of the back of the scale (as viewed facing the display) and then plug AC power adapter into the proper electrical outlet.



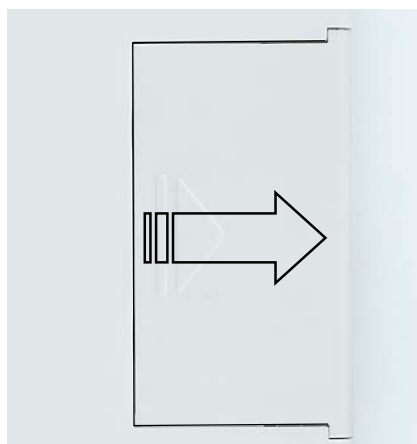
DO NOT connect the plug-in AC power adapter to the scale with a 9V battery installed in the scale.

9V Battery

The VET75 Digital Veterinary Scale can use a 9V Alkaline battery (*not included*). If you wish to operate the scale from a battery, you must first obtain and install the battery. After obtaining a 9V battery, the battery is installed in a compartment inside the scale. Access is via a removable panel on the right end of the bottom of the scale.

Battery Installation/Replacement

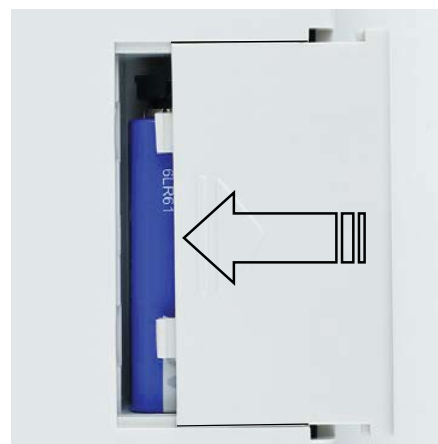
1. Turn the scale over so that the display is facing down and place it on a flat, level surface, such as a table or bench.
2. Locate the battery door on the bottom of the scale.
3. Remove the battery door by pushing in on the "arrow" and sliding the battery door in the direction of the arrow.
4. Slide the battery door about 1/2 inch, then lift and remove the battery door exposing the battery snap connector.
5. Connect the snap connector to a 9V battery and place the battery in the battery compartment.
6. Place the battery door on the scale and slide it in the "opposite" direction of the arrow until you hear it click and lock in place.
7. The scale is now ready for operation.



Push in on arrow, slide door in this direction, and lift to remove door.

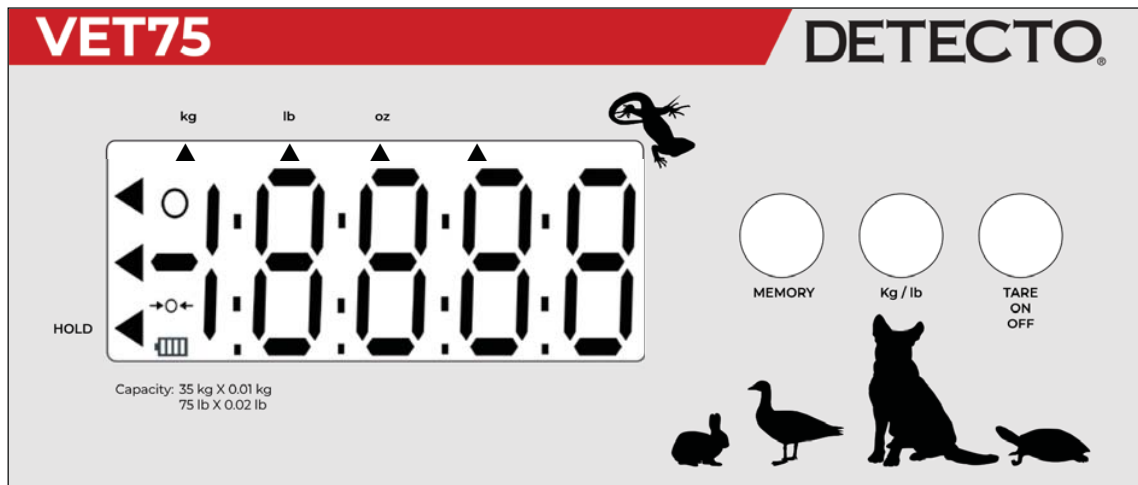


Connect snap connector then install battery.



Place battery door on scale and slide in this direction until it locks in place.

KEYS AND FUNCTIONS



KEYS

TARE/ON/OFF

1. Press this key to turn the scale on.
2. With the scale on, press this key to zero the weight display.
3. Press and hold this key for 3 seconds to turn the scale off.
4. Press this key to Tare the weight of a container (e.g., a basket, box, or crate) up to 2% of the scale capacity (1.5 lb or 0.7 kg).

Kg / Lb

1. Press this key to toggle between the weighing units kg, lb, oz, or lb/oz.
2. In normal mode, press and hold this key for 3 seconds to enter Configuration.

MEMORY

When the weight is stable, press this key to store the weight.

- If the weight is less than 2.2 lb (1 kg), press this key to recall the stored value of weight.
- If the weight is greater than 2.2 lb (1 kg), press this key to store the weight value.
- Press the **MEMORY** key again to return to the original weight value.

FUNCTIONS

HOLD FUNCTION

1. When the scale is turned on, the HOLD function will be automatically switched on indicated by the arrow at the bottom left of the display flashing.
2. When the weight on the scale is greater than 1% of the scale capacity (2.44 lb / 1.1 kg) and stable, the arrow will stop flashing and the display will lock onto the weight.
3. To disable the HOLD function, press the **TARE/ON/OFF** key again. The arrow at the bottom left of the display will go off (clear).

TARE FUNCTION

1. The TARE Function will only tare the weight on the scale when the weight is over 0.88 lb (14 oz or 400 g), otherwise, pressing the **TARE/ON/OFF** key will zero the weight display.
2. The TARE Function can tare weight up to 2% of the scale capacity.
3. The arrow at the bottom left of the display will flash to show the TARE function is active.

DISPLAY ANNUNCIATORS

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

O

This annunciator will be turned on when the weight display is stable.

→○←

This annunciator will be turned on when the scale weight has been zeroed.

◀▶

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

HOLD ◀

This annunciator (arrow) at the bottom left of the display will automatically be switched on and flash when the scale is turned on to indicate the Hold function is active.

kg

This annunciator (arrow) will be turned on to indicate that the displayed weight is in kilograms.

lb

This annunciator (arrow) will be turned on to indicate that the displayed weight is in pounds.

oz

This annunciator (arrow) will be turned on to indicate that the displayed weight is in ounces.

lb and oz

The annunciators (arrows) for both lb and oz will be turned on to indicate that the displayed weight is in pounds and ounces.

Battery Status Symbol



A battery status symbol will be displayed when the 9V battery is installed. The number of bars indicates the level of charge remaining in the battery.

4 Bars = 100%
3 Bars = 75%
2 Bars = 50%
1 Bar = 25%
No Bars = Low Battery

OPERATION



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

Turn the Scale On

Press the **TARE/ON/OFF** key to turn the scale on. The scale display will show all segments, the software revision, and then change to the selected weighing units.

Select the Weighing Unit

Press the **KG / LB** key to toggle between the selected weighing units, kg, lb, oz, or lb/oz.

Weighing an Animal

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

To Zero or Tare the Weight Display

1. To zero the scale display or to tare the weight of a container (e.g., a basket, box, or crate) on the scale, press the **TARE/ON/OFF** key.
2. If nothing is on the scale or the weight is under 0.88 lb (14 oz or 400 g) when the **TARE/ON/OFF** key is pressed, the scale will zero the weight display.
3. If a container that weighs over 0.88 lb (14 oz or 400 g) is on the scale when the **TARE/ON/OFF** key is pressed, the scale will enter the Tare mode and Tare the weight of the container (up to 2% of the scale capacity).

NOTE: This is useful when weighing an animal in a container (e.g., a basket, box, or crate). To control the total weight, the weight of the container must be retrieved first.

Hold Weight Display

1. The HOLD function is automatically switched on when the scale is turned on.
2. The arrow at the bottom left of the scale display will be flashing to indicate the HOLD function is active.
3. Place the animal on the scale.
4. When the weight stabilizes, the scale will beep, the arrow will stop flashing, and the display will lock onto the weight.
5. Remove the animal from the scale and then press the **TARE/ON/OFF** key to exit the Hold function.

Turn the Scale Off

Press and hold the **TARE/ON/OFF** key for 3 seconds to turn the scale off.

CONFIGURATION

The VET75 Digital Veterinary Scale has been pre-configured at the factory and should not require changes to use in most applications. If the factory settings do not meet the requirements of your application, the following describes the steps to change the configuration of the scale.

To Begin Configuration:

1. Press the **TARE/ON/OFF** key to turn the scale on.
2. Press and hold the **Kg / Lb** key for (3) seconds until the display changes to *SEt*.
3. Release the **Kg / Lb** key.
4. The display will change to *AOFF* (**Automatic Shutoff**).

AOFF (Automatic Shut-Off)

1. With the display showing *Unit*, press the **Kg / Lb** key.
2. The display will change to show *AOFF*.
3. Press the **MEMORY** key to begin the selection of the automatic shut-off time (in seconds).
4. The display will change to show the current setting.
5. Press the **Kg / Lb** key to toggle through the selections, *120S*, *180S*, *240S*, *300S*, or *OFF*.
6. When the desired time is displayed, press the **MEMORY** key.
7. The display will change to show *AOFF*.
8. Proceed to *bUrr* (**Buzzer/Beeper**).

bUrr (Buzzer/Beeper)

1. With the display showing *AOFF*, press the **Kg / Lb** key.
2. The display will change to show *bUrr*.
3. Press the **MEMORY** key to show the buzzer/beeper status.
4. Press the **Kg / Lb** key to toggle between:
Enabled: The display will change to *On*.
Disabled: The display will change to *OFF*.
5. Press the **MEMORY** key.
6. Press the **Kg / Lb** key.
7. The display will change to show *bUrr*.
8. Proceed to *End* (**End of Configuration**).

End

Press the **Kg / Lb** key to return to the beginning of Configuration or press the **MEMORY** key to exit Configuration and return to normal scale operation.

DISPLAY MESSAGES

The VET75 Digital Veterinary Scale is equipped with software that tests various portions of the scale's circuitry and verifies proper operation. Should a problem be detected, a message will be displayed alerting the operator to that condition. The following lists the messages displayed, their meaning, and a possible solution.

MESSAGE	MEANING	POSSIBLE SOLUTION
Lo	<p>The batteries are near the point where they need to be replaced.</p> <p>NOTE: 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.</p>	<p>To continue to operate the scale, replace the batteries or remove the batteries and plug the AC power adapter into the scale and then into the proper electrical wall outlet.</p>
Err	<ul style="list-style-type: none"> • This error is displayed when the weight on the scale exceeds the scale capacity. • This error is also displayed when the scale is turned on if there is weight on the scale that exceeds the scale power-up routine and auto-zero circuitry capacity. 	<ul style="list-style-type: none"> • Remove the weight on the scale to clear the error and try again. • Make sure the scale platform is not touching an adjacent object. • If the error continues, please consult your scale service representative.
ErrL	<p>This error indicates the zero count is below range. The scale will turn off in (30) thirty seconds if the condition continues.</p>	<ul style="list-style-type: none"> • After the scale has turned off, turn it back on to see if the error cleared. • If the error continues, please consult your scale service representative.

CARE AND MAINTENANCE

The heart of the VET75 Digital Veterinary Scale is four precision load cells located in each corner 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 the scale in water, pour or spray water directly on the scale.
- **DO NOT** use acetone, thinner, or other volatile solvents for cleaning.
- **DO NOT** expose the scale to direct sunlight or temperature extremes.
- **DO NOT** place the scale in front of heating or cooling vents.
- **DO** clean the scale with a damp soft cloth and mild non-abrasive detergent.
- **DO** remove the 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.

CALIBRATION PROCEDURE

This scale was calibrated at the factory and should not require adjustment. In the event the scale should need recalibration, the following describes the calibration of the VET75 Digital Veterinary Scale. A qualified technician should perform this function to maintain the instrument's high degree of accuracy.

Before beginning calibration, the following equipment is required:

**20 kg calibrated test weight or
50 lb calibrated test weight**

To Begin Calibration:

1. Make certain the scale is empty and turned off.
2. Press and hold the **TARE/ON/OFF** key,
3. Press the **Kg / Lb** key three times and then release both keys.
4. The display will change to show the Zero Count value. For example, *3077*.
5. Press the **TARE/ON/OFF** key again.
6. The display will change to show *0*, and the scale will enter the Calibration mode.
NOTE: In the Calibration mode, press the **Kg / Lb** key to select kg or lb depending on the test weight to be used.
7. Place the 20 kg (or 50 lb) calibrated test weight on the scale.
8. The display will change to show the Span Count value. For example, *8211*.
NOTE: The Span Count displayed will be in the range of 2000 ~ 16000.
9. After the Span Count stabilizes, press the **TARE/ON/OFF** key.
10. The display will change to show *CAL* and start the calibration procedure.
11. After a moment, the display will change to show the calibration weight. For example, *20.00* if using the 20 kg test weight.
12. Remove the test weight from the scale.
13. Press the **TARE/ON/OFF** key to turn the scale off, and then press the **TARE/ON/OFF** key again to turn the scale back on.
14. The calibration is complete and the scale is ready for normal weighing operations.

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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