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Model: NVT6200

1. INTRODUCTION

The Ohaus Navigator Series Portable Balance, model NVT6200, is designed for accurate and repeatable weighing in various settings, including laboratory, industrial, and educational environments. This balance features fast stabilization, robust overload protection, and intuitive operation to enhance user efficiency and productivity.

Key features include:

- Fast stabilization time (less than one second).
- Overload protection up to four times its rated capacity.
- Touchless sensor for hands-free operation (zero, print, tare, change functions).
- Multiple weighing modes: Weighing, Parts Counting, Percent Weighing, Checkweighing.
- Multiple units of measure: g, kg, N, oz, ozt, dwt, lb, lb/oz, ct, grain.



Figure 1: Ohaus NVT6200 Navigator Series Portable Balance. This image shows the balance with its weighing pan and LCD display.

2. SETUP

Follow these steps to set up your Ohaus NVT6200 Portable Balance:

1. **Unpacking:** Carefully remove the balance and all accessories from the packaging. Retain the packaging for future transport or storage.
2. **Placement:** Place the balance on a stable, level surface free from vibrations, drafts, and direct sunlight. Ensure the surface can support the weight of the balance and any items to be weighed.
3. **Power Connection:**
 - **AC Adapter:** Connect the supplied AC adapter to the balance's power input and then to a suitable power outlet.
 - **Battery Power:** For portable use, install four "C" batteries (not included) into the battery compartment located on the underside of the balance. Ensure correct polarity.
4. **Leveling:** Use the adjustable feet and the spirit level (if present, typically near the display) to ensure the

balance is perfectly level. Adjust the feet by turning them clockwise or counter-clockwise until the bubble in the spirit level is centered.

5. **Initial Power On:** Press the **ON/OFF** button to turn on the balance. Allow a brief warm-up period for optimal performance.

3. OPERATION

This section outlines the basic operational procedures for the NVT6200 balance.

3.1 Basic Weighing

1. Turn on the balance by pressing the **ON/OFF** button.
2. Wait for the display to show "0.00 g" (or the last used unit) and the stability indicator to appear.
3. Place the item to be weighed on the center of the weighing pan.
4. Read the stable weight value displayed on the LCD.
5. Remove the item from the pan.

3.2 Taring (Zeroing)

To weigh an item in a container, use the Tare function:

1. Place the empty container on the weighing pan.
2. Press the **TARE** button (or use the touchless sensor if configured). The display will return to "0.00 g".
3. Add the item to be weighed into the container. The display will show the net weight of the item.

3.3 Changing Weighing Units

The NVT6200 supports multiple weighing units. To change the unit:

- Press the **UNIT** button (or use the touchless sensor if configured) repeatedly to cycle through the available units (g, kg, N, oz, ozt, dwt, lb, lb/oz, ct, grain).
- Stop when the desired unit is displayed.

3.4 Using Weighing Modes

The balance offers various application modes:

- **Weighing:** Standard weight measurement.
- **Parts Counting:** For counting a large number of identical items based on a reference weight.
- **Percent Weighing:** For measuring the weight of a sample as a percentage of a reference weight.
- **Checkweighing:** For checking if a sample's weight falls within a specified target range.

Refer to the detailed user manual for specific instructions on configuring and using each weighing mode, typically accessed via a **MODE** or **FUNCTION** button.

4. MAINTENANCE

Proper maintenance ensures the longevity and accuracy of your Ohaus NVT6200 balance.

- **Cleaning:**
 - Always disconnect the balance from the power supply before cleaning.

- Clean the weighing pan and housing with a soft cloth dampened with mild detergent or water.
- Do not use abrasive cleaners, solvents, or harsh chemicals.
- Ensure no liquid enters the balance housing.
- **Calibration:** Regular calibration with certified weights is recommended to maintain accuracy, especially after relocation or significant temperature changes. Refer to the full Ohaus manual for calibration procedures specific to the NVT6200 model.
- **Storage:** When not in use for extended periods, store the balance in a clean, dry, and stable environment. Engage the integrated shipping lock to protect the weighing cell during transportation or storage.

5. TROUBLESHOOTING

If you encounter issues with your NVT6200 balance, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Display shows "Err" or unstable readings.	Overload, unstable surface, drafts, electromagnetic interference.	Remove excess weight. Place on a stable, level surface. Shield from drafts. Move away from interfering devices.
Balance does not turn on.	No power, dead batteries, faulty AC adapter.	Check AC adapter connection. Replace batteries if using battery power. Ensure power outlet is functional.
Inaccurate readings.	Not leveled, needs calibration, temperature change, dirty pan.	Level the balance. Perform calibration. Allow balance to acclimate to ambient temperature. Clean the weighing pan.
Touchless sensor not responding.	Sensor obstructed, dirty sensor, feature disabled.	Ensure nothing is blocking the sensor. Clean the sensor area. Check balance settings to ensure the feature is enabled.

If the problem persists, contact Ohaus customer support or an authorized service center.

6. SPECIFICATIONS

Technical specifications for the Ohaus NVT6200 Navigator Series Portable Balance:

- **Model:** NVT6200
- **Maximum Capacity:** 6200 Grams
- **Readability (Accuracy):** 1 gram
- **Pan Size:** 9.1" x 6.9"
- **Display Type:** LCD
- **Material:** Stainless Steel (pan)
- **Power:** AC Adapter (Included) or 4 "C" Batteries (Not Included)
- **Units of Measure:** g, kg, N, oz, ozt, dwt, lb, lb/oz, ct, grain
- **Weighing Modes:** Weighing, Parts Counting, Percent Weighing, Checkweighing
- **Tare Range:** Full Capacity by Subtraction
- **Item Weight:** Approximately 5 Pounds

7. WARRANTY AND SUPPORT

Ohaus products are manufactured under stringent quality standards. For warranty information and technical support, please refer to the official Ohaus website or contact your local Ohaus representative.

It is recommended to register your product to receive updates and support. Keep your purchase receipt as proof of purchase for warranty claims.

For further assistance, visit the official Ohaus website: www.ohaus.com