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### UCEC 50g

# UCEC 50g Calibration Weight Instruction Manual

Precision Stainless Steel Weight for Digital Scales

## 1. Introduction

This manual provides comprehensive instructions for the proper use and maintenance of your UCEC 50g Calibration Weight. Designed for high precision, this weight is essential for ensuring the accuracy of digital scales, jewelry scales, and laboratory balances. Adhering to these guidelines will help maintain the weight's integrity and accuracy over time.




*Image 1.1: The UCEC 50g Calibration Weight, a precision instrument for scale calibration.*

## 2. Product Overview

The UCEC 50g Calibration Weight is crafted from high-quality stainless steel with a chrome-plated surface, ensuring durability and resistance to corrosion. Its design features a flat top and bottom, allowing for stable stacking during calibration processes.

## Key Features:

- **High Accuracy:** Permissible error range of -0.003g to +0.003g.
- **Premium Material:** Solid, chrome-plated metal construction for corrosion resistance.
- **User-Friendly Design:** Clearly marked with its 50g value for easy identification. Flat surfaces facilitate stable stacking.
- **Versatile Application:** Suitable for digital pocket scales, jewelry carat scales, diamond scales, precision balances, and general laboratory use.



*Image 2.1: Illustrates the high-quality material, including steel chrome plating, corrosion resistance, and super mirror polished finish.*




*Image 2.2: Depicts the permissible error range of -0.003g to +0.003g for the calibration weight.*

## 3. Setup

The UCEC 50g Calibration Weight requires minimal setup. Ensure the weight is clean and free from any dust or debris

before use. Handle the weight carefully, preferably with tweezers or gloves, to avoid transferring oils or dirt from your hands, which can affect accuracy.

### Preparation:

1. Unpack the 50g calibration weight from its packaging.
2. Inspect the weight for any visible damage or foreign particles.
3. Gently wipe the weight with a soft, lint-free cloth if necessary.
4. Place the weight on a stable, level surface near the scale to be calibrated.

## 4. Operating Instructions: Scale Calibration

Calibrating your digital scale with the UCEC 50g weight ensures precise measurements. Always refer to your scale's specific instruction manual for its calibration mode activation, as procedures can vary between models.

### General Calibration Steps:

1. **Power On Scale:** Turn on your digital scale and allow it to warm up for a few minutes to stabilize.
2. **Enter Calibration Mode:** Consult your scale's manual to enter its calibration mode. This often involves pressing and holding a specific button (e.g., 'MODE', 'CAL', 'UNIT') for a few seconds. The display may show 'CAL' or a specific weight value.
3. **Place Weight:** Once the scale prompts for the calibration weight (e.g., displays '50.00g' or 'PLACE WEIGHT'), carefully place the UCEC 50g calibration weight in the center of the scale's weighing platform. Avoid dropping or sliding the weight, as this can affect the calibration.




*Image 4.1: A hand carefully placing the 50g calibration weight onto a digital scale's platform.*

4. **Confirm Calibration:** The scale will typically process the weight and then display 'PASS', 'END', or return to normal weighing mode. Remove the weight once calibration is complete.
5. **Test Accuracy:** After calibration, test the scale by weighing the 50g calibration weight again to confirm it reads 50.00g (or within its specified tolerance).




*Image 4.2: The 50g calibration weight resting on a digital electronic scale, displaying an accurate reading.*




*Image 4.3: Demonstrates the 50g calibration weight being used to balance a traditional scale.*

## 5. Maintenance and Care

Proper care of your UCEC 50g Calibration Weight is crucial for maintaining its accuracy and longevity.

- **Handling:** Always handle the weight with clean, lint-free gloves or tweezers to prevent oils, dirt, or moisture from affecting its mass.

- **Cleaning:** If cleaning is necessary, gently wipe the weight with a soft, dry, lint-free cloth. Do not use abrasive materials or chemical cleaners, as these can damage the chrome plating and alter the weight's mass.
- **Storage:** Store the calibration weight in a clean, dry environment, ideally in its original protective packaging or a dedicated case, to prevent dust accumulation and physical damage. Avoid extreme temperatures or humidity.
- **Avoid Damage:** Do not drop, scratch, or dent the weight, as any physical alteration can compromise its accuracy.

## 6. Troubleshooting

If you encounter issues with scale calibration or suspect your weight's accuracy, consider the following:

- **Inaccurate Scale Reading:** Ensure the scale is on a stable, level surface, free from vibrations or drafts. Verify the scale's battery level. Re-attempt calibration following your scale's specific instructions precisely.
- **Weight Appears Damaged:** If the calibration weight has visible scratches, dents, or corrosion, its accuracy may be compromised. Consider replacing it.
- **Environmental Factors:** Temperature fluctuations and air currents can affect sensitive scales. Perform calibration in a stable environment.

## 7. Specifications

| Feature | Detail |
|---|---|
| Weight Value | 50 grams (50g) |
| Material | Stainless Steel with Chrome Plating |
| Permissible Error | -0.003g to +0.003g |
| Dimensions (Approx.) | Height: 2.9 cm (1.14 in), Diameter: 1.7 cm (0.66 in) |
| Application | Digital scales, jewelry scales, lab balances, educational science |

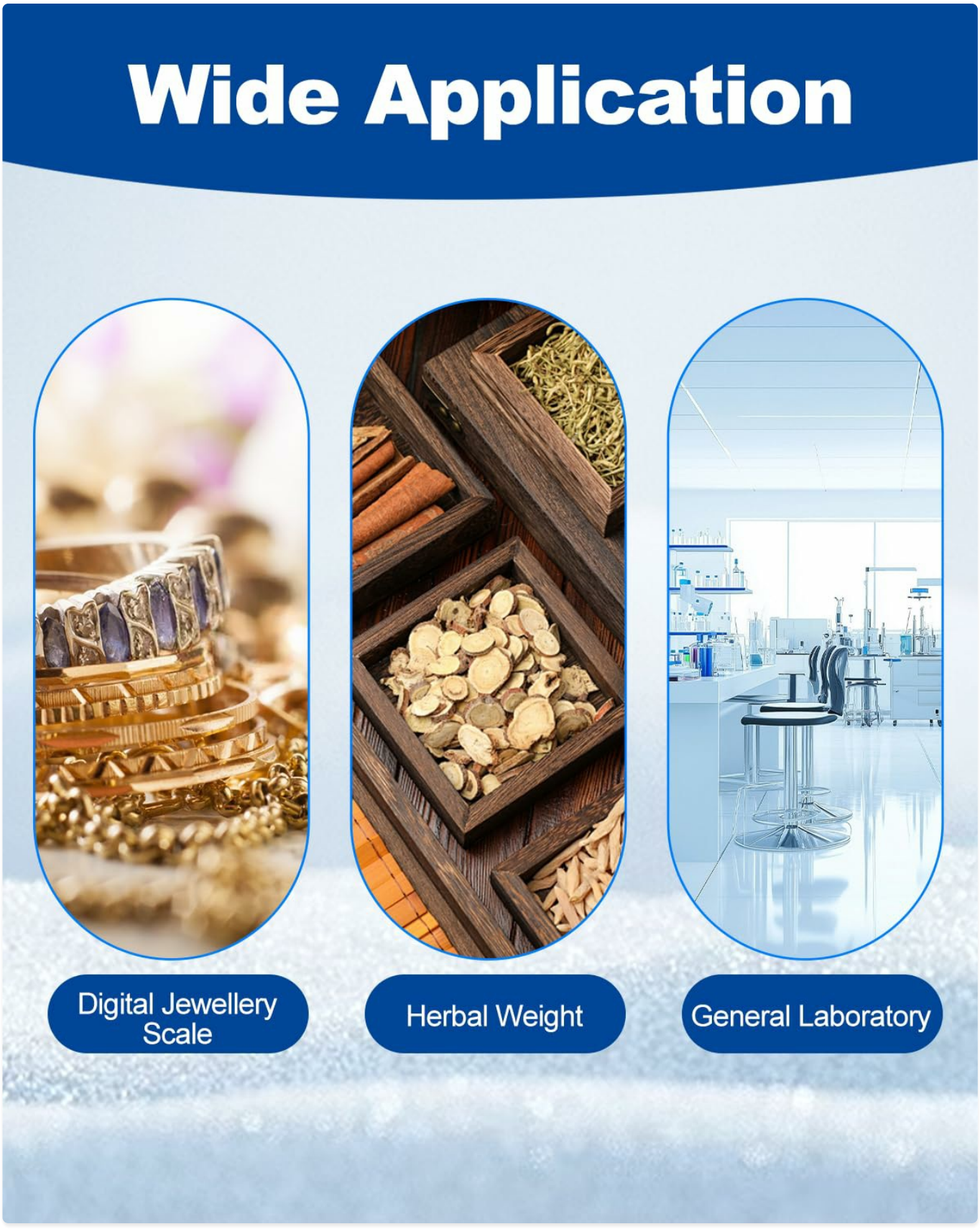


*Image 7.1: Detailed dimensions of the 50g calibration weight.*

## 8. Warranty and Support

For any questions or concerns regarding your UCEC 50g Calibration Weight, please contact UCEC customer support. While specific warranty details are not provided in this manual, UCEC is committed to customer satisfaction.
For further assistance, please visit the official UCEC Store:UCEC Store on Amazon

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