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Dasqua 6inch

Dasqua Digital Dial Calipers User Manual

Model: 6inch | IP67 Electronic Micrometer

1. Introduction

This manual provides detailed instructions for the proper use and maintenance of your Dasqua Digital Dial Calipers. Designed for precision measurement, these calipers feature a large OLED color screen with both dial and digital reading, IP67 splash waterproof and dustproof rating, and a rechargeable battery. Adhering to these instructions will ensure optimal performance and longevity of your measuring tool.



Image: The Dasqua Digital Dial Calipers, showing the main unit and its protective carrying case.

2. Key Features

- **Precision Measurement:** Range of 0 - 6"/ 0 - 150 mm with accuracy to ±0.001"/0.02mm and resolution to 0.0005"/0.01mm/1/128".
- **Dual Reading Display:** Large OLED color screen offers both Dial and Digital reading for enhanced convenience.
- **IP67 Protection:** Splash waterproof and dustproof, suitable for use in workshops and dusty environments.
- **Durable Construction:** Hardened and ground measuring surfaces ensure extreme accuracy, smoothness, and long service life.
- **Rechargeable Battery:** Built-in 1000mAh high-capacity rechargeable battery with magnetic charging, providing approximately 8 hours of use on a 20-minute charge.



Image: Illustration highlighting the IP67 waterproof, anti-dust, and anti-corrosion properties of the calipers.

3. Product Components

Familiarize yourself with the main components of the Dasqua Digital Dial Calipers:

External Jaws: Used for external dimension measurements.

Internal Jaws: Used for internal dimension measurements.

Depth Measuring Tip: Used for depth measurements.

Scale: The main measuring scale.

LCD Display: Large OLED screen showing measurements and settings.

Slider Locking Knob: Secures the slider in position.

Slider Adjustment Knob: Fine adjustment of the slider.

DATA Button: For data related functions.

MENU Button: Accesses menu options and settings.

SET Button: Used for setting and zeroing.

Charging Interface: Magnetic port for recharging the battery.



Image: A detailed diagram illustrating the various components of the digital calipers, including jaws, display, and control buttons.

4. Setup

4.1 Initial Charge

Before first use, fully charge the calipers. Connect the magnetic charging cable to the charging interface on the caliper and to a suitable USB power source. A full charge takes approximately 20 minutes and provides about 8 hours of continuous use.



Image: The digital calipers connected to a magnetic charging cable, illustrating the charging process.

4.2 Power On/Off

To power on the device, **long press and hold the SET key**. The display will show "Starting..." and then the measurement interface. To power off, **long press and hold the SET key** again. The display will show "Shutting down".

Your browser does not support the video tag.

Video: Demonstration on how to switch the display of the dial surface, including powering on and off the device.

5. Operating Instructions

5.1 Zeroing the Calipers

Before taking any measurement, ensure the calipers are zeroed. Close the jaws completely and press the **SET button** to set the display to zero. This establishes the reference point for accurate measurements.

5.2 Taking Measurements

- **External Measurement:** Place the external jaws around the object and close them until they firmly contact the surface. Read the measurement from the OLED display.
- **Internal Measurement:** Insert the internal jaws into the opening and expand them until they firmly contact the inner surfaces. Read the measurement.
- **Depth Measurement:** Place the end of the main beam on the top surface of the object and extend the depth measuring tip until it touches the bottom. Read the measurement.



Image: A close-up of the digital calipers in use, demonstrating a precise measurement being taken.

5.3 Unit Conversion

The calipers support multiple units of measurement. Press the **MENU button** to cycle through different display interfaces and units, including inches (0.0005"), millimeters (0.01mm), and fractional inches (1/128").

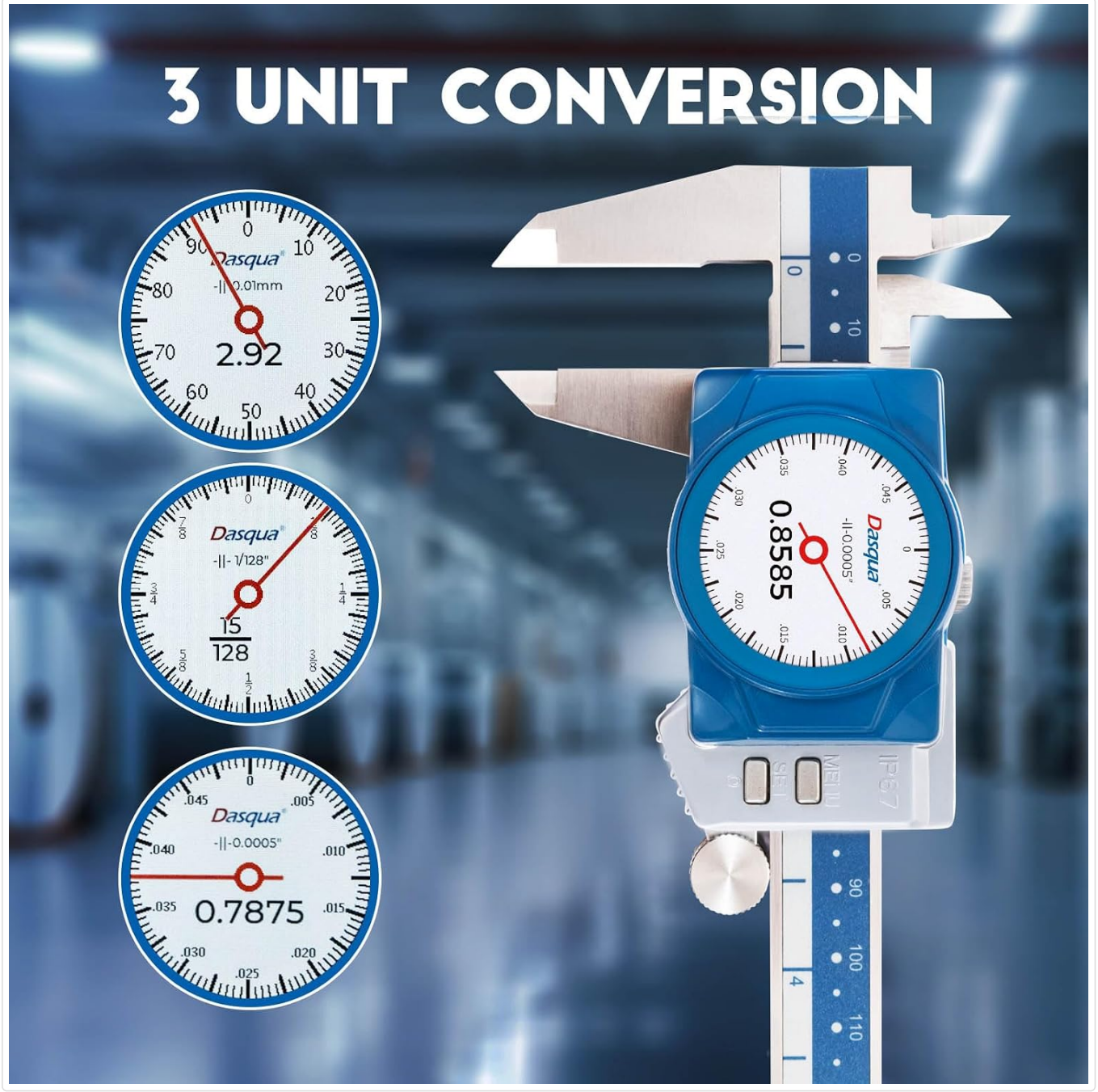


Image: The caliper display showing three different unit conversions: decimal inches, fractional inches, and millimeters.

5.4 HOLD Function

To hold a measurement on the display, press the **SET button** while the measurement is active. To release the hold, press the **SET button** again.

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Video: A demonstration of the HOLD function, showing how to freeze a measurement on the display and release it.

5.5 Brightness Adjustment and Auto Sleep

The display brightness can be adjusted (Normal, Bright, Night mode) by cycling through options using the **MENU button**. The calipers also feature an automatic screen off time setting (e.g., 2MIN, 5MIN, 10MIN) to conserve battery life.



Image: The caliper display showing options for brightness adjustment (Normal, Bright, Night) and automatic screen off time settings.

6. Maintenance

6.1 Cleaning

Regularly clean the measuring surfaces and the main beam with a soft, lint-free cloth. For stubborn dirt or oil, use a mild, non-abrasive cleaning solution. Ensure the calipers are dry before storage. Despite being IP67 rated, avoid prolonged submersion in liquids.

6.2 Storage

Store the calipers in their protective case when not in use to prevent damage from impacts, dust, and moisture. Keep them in a dry environment away from direct sunlight and extreme temperatures.

6.3 Battery Care

To prolong battery life, avoid fully discharging the battery frequently. Recharge the calipers when the battery indicator shows low. Use only the provided magnetic charging cable.

7. Troubleshooting

Problem	Possible Cause	Solution
Display not turning on.	Low battery or not powered on correctly.	Charge the battery. Long press the SET button to power on.
Inaccurate readings.	Jaws not properly closed during zeroing, dirt on measuring surfaces, or calibration issue.	Ensure jaws are clean and fully closed before zeroing. Clean measuring surfaces. If issues persist, refer to calibration certificate or contact support.
Slider movement is stiff.	Accumulation of dust or debris on the beam.	Clean the main beam and slider mechanism. Apply a small amount of instrument oil if necessary.

Problem	Possible Cause	Solution
Magnetic charging not working.	Charging cable not properly connected or damaged.	Ensure the magnetic connector is clean and securely attached. Try a different USB power source. If the cable is damaged, replace it.

8. Specifications

Feature	Detail
Measurement Range	0 - 6 inches / 0 - 150 mm
Accuracy	±0.001 inches / 0.02 mm
Resolution	0.0005 inches / 0.01 mm / 1/128 inches
Material	Stainless Steel
Protection Rating	IP67 (Splash Waterproof & Dustproof)
Display Type	Large OLED Color Screen (Dial and Digital)
Battery Type	Built-in 1000mAh High-capacity Rechargeable
Charging Method	Magnetic Charging
Approx. Charging Time	20 minutes
Approx. Operating Time	8 hours on a single charge
Model Number	6inch

9. Warranty and Support

Dasqua offers a **2-year warranty** on this product. For warranty claims, technical support, or service inquiries, please contact your original point of purchase or visit the official Dasqua website for authorized service centers. Please retain your purchase receipt as proof of purchase for warranty validation.
For additional information and resources, you may visit the Dasqua Store on Amazon.



Image: A sample Dasqua Certificate of Calibration, indicating product quality and adherence to standards.

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