

Please read these safety instructions carefully before using your Mercury Screen. Retain this information for future reference.

## Intended Use

The Mercury Screen is a battery-powered display accessory designed to connect to a Mercury V1 altimeter via USB cable and show live flight data, stored flight history, and device status. It is a ground-based display device and is not intended to be flown, launched, or installed in a rocket. It is not designed or certified for use in manned aircraft, safety-critical systems, or any application where failure could result in injury or loss of life.

## Data Displayed

All flight data, altitude values, sensor readings, and device status information shown on the Mercury Screen originate from the connected Mercury V1 altimeter. The screen does not perform any measurement itself. The accuracy and limitations of the data displayed are determined by the altimeter and are described in the Mercury V1 user manual. Do not treat values shown on the screen as more or less accurate than those reported by the altimeter itself.

## Battery Safety

This product contains a rechargeable lithium polymer (LiPo) battery with an internal protection circuit module (PCM) that provides overcharge, overdischarge, and overcurrent protection independent of the screen's charge management circuitry. To reduce the risk of fire, burns, or battery damage:

- Charge the Mercury Screen using a standard USB-C cable only. Do not use damaged or frayed cables.
- Do not charge the battery below 0°C or above 35°C.
- Do not leave the device charging unattended for extended periods.
- Do not puncture, crush, disassemble, or expose the battery to fire or extreme heat.
- Stop using the Mercury Screen immediately if the battery appears swollen, deformed, or is emitting heat or odour, and dispose of it safely at a battery recycling point.
- Do not subject the Mercury Screen to impact, vibration, or mechanical shock beyond normal handheld use. It is not designed for airborne use and the battery is not protected against impact damage.

## Charging

The Mercury Screen charges via USB-C. The onboard charge controller manages the charging process automatically. There is no need to monitor the charging process, but do not charge in extremely hot or cold environments. It is good practice to charge the Mercury Screen before a flying session so that it has sufficient battery to display live data from your altimeter throughout your session.

## Display and Touchscreen

The Mercury Screen uses an LCD display with a capacitive touchscreen. To avoid damage:

- Do not apply excessive pressure to the screen surface.
- Do not use sharp or abrasive objects on the touchscreen.
- Clean the screen only with a soft, dry or slightly damp cloth. Do not use solvents, alcohol, or abrasive cleaners.
- Avoid prolonged exposure to direct sunlight, which may degrade the display panel.

## Connection to the Altimeter

The Mercury Screen connects to the Mercury V1 altimeter via a standard USB-C cable. The USB port on the Mercury Screen is repurposed as a serial data port and will not enumerate as a USB device if connected to a computer. Do not attempt to use the screen's USB port for data transfer to a computer or other host device — only use it to connect to a compatible Mercury altimeter.

## Operating Environment

- Operating temperature: 0°C to 40°C.
- Do not expose the Mercury Screen to water, rain, or excessive moisture.
- Do not use in environments with corrosive gases or liquids.
- Avoid prolonged exposure to direct sunlight when not in use.

## Children and Young People

The Mercury Screen is a display accessory and contains no pyrotechnic or energetic functions. It may be used by children under the age of 16 under adult supervision. However, the connected Mercury V1 altimeter has its own age restrictions where output channels are used in conjunction with pyrotechnic devices — please refer to the Mercury V1 safety instructions.

## Local Regulations

The user is responsible for complying with all applicable local, national, and international laws and regulations regarding electronic devices and rechargeable batteries. Regulations vary significantly by country and region.

## Modifications

Any modification to the hardware, firmware, or software of the Mercury Screen that has not been authorised by Rocketry Ltd will void all warranties and may invalidate the product's regulatory compliance certifications. The device has been tested and certified as supplied. Unauthorised modifications may also create safety hazards.

## Third-Party Accessories

Rocketry Ltd is not responsible for any damage, malfunction, or safety hazard caused by the use of non-genuine accessories, cables, batteries, or components. Use only accessories and replacement parts recommended or supplied by Rocketry Ltd.

## Disposal and Recycling

This product is electrical and electronic equipment and must not be disposed of with general household waste.

The crossed-out wheelie bin symbol on the product indicates that it falls within the scope of the Waste Electrical and Electronic Equipment (WEEE) Directive. At the end of its useful life, please dispose of this product at an appropriate collection point for the recycling of electrical and electronic equipment, or return it to the retailer when purchasing equivalent new equipment.

To find your nearest recycling point:

- **United Kingdom:** Visit [recycleyourelectricals.org.uk](https://recycleyourelectricals.org.uk) for a recycling locator with nearly 30,000 drop-off locations across the UK.
- **European Union:** Contact your local municipality or visit your local household waste recycling centre. Most EU member states provide free collection points for small electrical equipment.

The lithium polymer battery contained within this product must be recycled separately. Many local authorities and retailers provide battery recycling facilities. Do not dispose of the battery in general waste or by incineration.

### WEEE Producer Registration: WEE/MM6411AA

Correct disposal helps protect the environment and human health from potential hazards arising from uncontrolled waste disposal, and supports the recovery and recycling of materials.

## Questions or Concerns

If you have any questions about using the Mercury Screen safely, please contact us at [info@modelrockets.co.uk](mailto:info@modelrockets.co.uk).