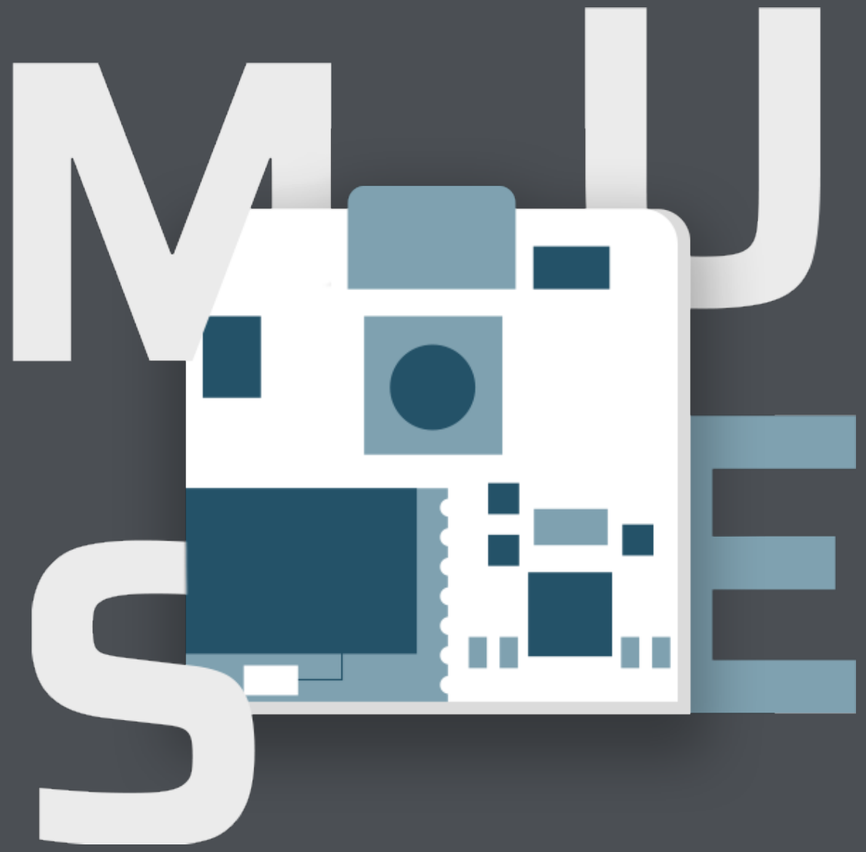


221e

Quick Start Guide

1.

power on

MUSE

To hold pressed the button centrally located on the upper side of the casing for 1 sec.

The blue led start blinking and the system is ready

2.

power off

MUSE

To hold pressed the button until the blue led goes off

3.

mode

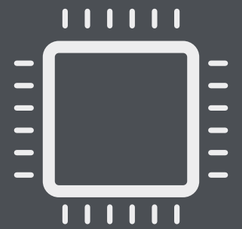
STREAMING

Default system state when device is power on
It allows for remote control

4.

mode

LOG



It allows for data log within flash memory

Configure LOG Mode

Run Muse Viewer → Connect the device → Settings → Configuration...
Select Tab Logger → Set Log Mode / Frequency → Click Apply and Exit
Disconnect and turn off the device

N.B. When the device is in LOG Mode, it cannot be remotely controlled by any software application

3 - 4

log - streaming

SWITCH

After configuring the LOG Mode

Power on the device → Press again the button for 1 sec.

Pressing again the button will stop the acquisition

5.

mode

FOTA

Hidden operating mode that allows to update the firmware of the device

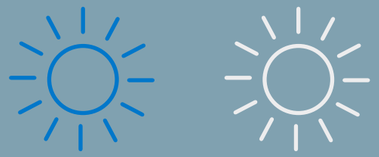
Turn on the device by holding down the power on button for at least 5 sec.
→ The blue led starts blinking slowly → The system is ready

When the device is in FOTA Mode, it can be remotely controlled by using only the Firmware Update Tool provided with the Muse Viewer software application

led

LIGHTS

Acquisition state



Download data

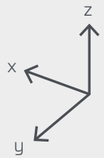
Low battery level

Battery charging*

*To recharge the battery, connect the USB cable or bring the device near the wireless charging docking station → The white led slow blinks
Fully charged → The white led remains stationary

product compliance

INFORMATION AND WARNING



MUSE system uses a **right-handed coordinate system**, where the x-axis is outgoing with respect to the USB, while the z-axis is outgoing with respect to the power on/off button.
Each rotation is **clock-wise positive** with respect to the relative outgoing axis.

Magnetic distortions (e.g. proximity to metal objects or electromagnetic fields) can affect the accuracy of the heading estimation.

It is recommended to perform a **preliminary calibration** in order to setup the overall system to the **environmental conditions of use**.

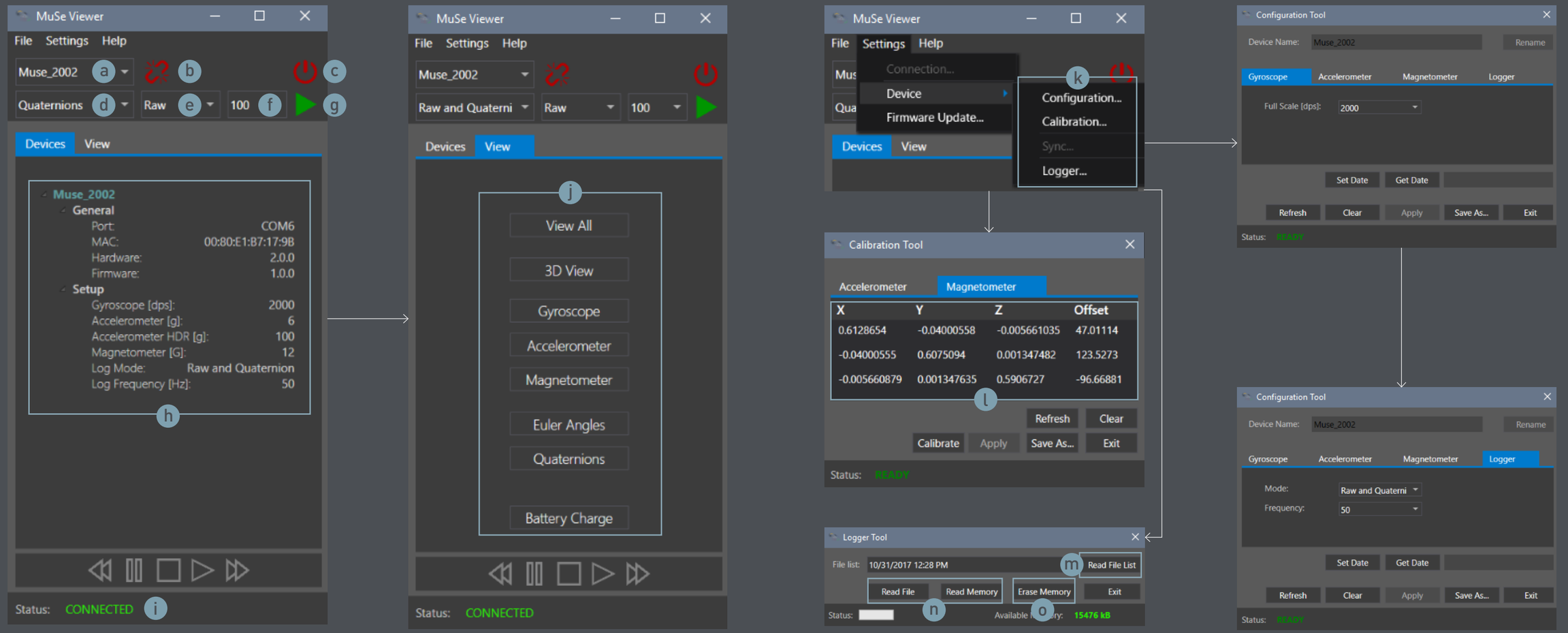
MUSE uses a **rechargeable lithium-polymer battery** and includes circuitry for both thermal and electrical protections against over-voltage and over-current conditions.

Respect the following cautions:

- Do not disassemble, crush, puncture, shred the battery
- Do not let the battery to get in contact with water or other liquids
- Do not short the battery contacts to metal objects
- Do not place the battery near thermal heat sources

software application

MUSE VIEWER



a. Device selection
b. Connect / Disconnect Device
c. Shutdown Device
d. Data selection
(Quaternions / Raw and Quaternions / High-Dynamic Range HDR)
e. Data Type (Raw / Calibrated)
f. Acquisition Frequency (i.e. 25 ÷ 200 Hz)
g. Start / Stop Streaming
h. Current Device Configuration
i. System Status
j. Data View Selection
k. Access to Device Configuration, Calibration and Logger Tools
l. Calibration matrix
m. Read device memory content
n. Download memory content
o. Erase memory content

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