POWER ON / OFF and OPERATING MODES

- To **POWER ON** the device, hold pressed the button, centrally located on the upper side of the casing, for 1 second. The **BLUE LED START BLINKING** and the system is ready.
- To **POWER OFF** the device, hold pressed the button, until the **BLUE LED GOES OFF**.
- The button allows also to switch between the two operating modes¹:
  - **STREAMING MODE**: Default system state when device is power on, allows for remote control.
  - **LOG MODE**: (configuration required), allows for data log within flash memory.
- To configure **LOG MODE** run MuseViewer Software Application and connect the device. Then, select:
  - **Settings -> Configuration... -> Select Tab Logger -> Set Log Mode / Frequency -> Click Apply and Exit. Disconnect and turn off the device.**
  - To switch between the two operating modes (*if log mode has been previously configured*), power on the device and then press again the button for 1 second. Similarly, pressing again the button will stop the acquisition.

  - **When the device is in LOG MODE, it cannot be remotely controlled by any software application.**

SYSTEM STATES

- The **BLUE, WHITE** and **ORANGE LED**S provide visual feedback regarding the system state, which can be:
  - **ACQUISITION STATE** in both, STREAMING or LOG MODE. The BLUE LED blinks at the acquisition frequency set; and
  - **DOWNLOAD DATA**. The BLUE and WHITE LEDS blink together.
  - **LOW BATTERY LEVEL**. The ORANGE LED blinks; and **BATTERY CHARGING**. The WHITE LED blinks.

RECHARGE BATTERY

- To recharge the battery, connect the USB cable or just bring the device near the wireless charging docking station. The **WHITE LED** slow blinks.
- When fully charged, the **WHITE LED** stop blinking and remains solid.

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. As with any lithium-polymer battery-powered device, the following should be observed: 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.

CONTACT INFORMATION

For the latest specifications, additional product information, worldwide sales and distribution locations, and information about 221e srl:

| Web: www.221e.com | Email: info@221e.it | Tel. +39 0423 95 17 20 |

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¹ **FOTA mode is a hidden operating mode that allows to update the firmware of the device.** To reach this state, turn on the device by holding down the power on button for at least 5 seconds. The **BLUE LED STARTS BLINKING SLOWLY** and 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 MuseViewer software application.

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MuSe – Multi-Sensor miniaturized, low-power, wireless IMU

Quick Start Guide

MUSE VIEWER SOFTWARE APPLICATION

1. Device selection
2. Data selection
   a. Quaternions
   b. Raw and Quaternions
   c. High-Dynamic Range (HDR)
3. Data Type
   a. Raw
   b. Calibrated
4. Acquisition Frequency (i.e., 25 – 200 Hz)

Connect / Disconnect Device
Shutdown Device
Start / Stop Streaming
Current Device Configuration

Access to Device Configuration, Calibration and Logger Tools

System Status
Data View Selection

Calibration matrix
Read device memory content

Download memory content

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