

**Welcome to use Multi-Dimension Technology's product. The following is about the Quick usage steps and attentions of USB Magnetometer:**

**Item 1: Use steps**

1. Save the [Magnetometer Documentation] downloaded from the official website of Multi-Dimension Technology.
2. Check that the main drivers such as the main board of the computer connected to the USB Magnetometer are installed. This is very important. If the key drivers of the computer itself are missing, it is likely to cause the USB Magnetometer to not work properly.

After connecting the USB Magnetometer to the computer for the first time, Wait for the computer to install the USB Magnetometer driver automatically.

If the USB Magnetometer driver is not installed automatically, use the "FTDI231x Driver" to install it in the computer manually.

3. To achieve the better performance, Open the "COM Port Optimizer" after connecting the USB Magnetometer to the computer for the first time.

This step can be ignored when connecting the USB Magnetometer to this computer in the future

4. Open the GUI in Administrator mode, Select the COM port used by the USB Magnetometer in the <Select Port > drop-down menu.

Then Click in sequence:

- ① <Open Port> (wait for the right border to display " Valid probe found", which indicates that the USB Magnetometer connection is valid; If "No valid probe at port" is displayed, it indicates that the USB magnetometer connection is invalid, the USB Magnetometer needs to be re-written the firmware and calibrated. Refer to the "User Manual" for methods.)
- ② <Optimize Ports(Administrator Mode Only)>
- ③ <Continue> ,Wait for initialization to complete

Note: If the GUI is not opened in administrator mode, Then <Optimize Ports> cannot be used. The GUI needs to be restarted in administrator mode

5. End the use of USB Magnetometer, Click in sequence:

- ① <Pause/Resume> at the bottom left of the GUI  
(the data curve is paused at the time)
- ② <Configure > on the upper left of the GUI
- ③ < Configure COM>
- ④ <Close Port>

Then the USB Magnetometer can be removed from the computer safely; End Use of USB magnetometers on Android Device also needs to be removed safely.

If the USB Magnetometer is removed without the above procedure, the USB Magnetometer performance may be affected.

## Item 2: Attentions

1. The language switch of the GUI is located in the upper right check box of the GUI.
2. The data curve is not displayed or displayed but fixed in the GUI, Try clicking the < Pause/Resume > button at the bottom left; If that fails, close the GUI and restart; If it still fails, the USB Magnetometer needs to be re-written the firmware and calibrated. Refer to the “User Manual” for methods.
3. The data curve in the GUI is limited to a certain range, switch <Low Noise> to <Dynamic Range> in the lower left column.
4. To avoid affecting measurement accuracy, do not store the magnetometer near magnetic objects and do not use USB magnetometers in magnetic fields beyond its range; If it has occurred, it is recommended to calibrate the USB Magnetometer before next use. Please refer to the “User Manual” for methods.
5. If there are any other usage issues with the product, please refer to [Magnetometer Documentation]; If it still cannot be resolved, please summarize all problems and contact after-sales personnel.
6. If you need to know about other products of MDT, It can be viewed on the official website of MDT, the language switching located in the upper right corner of the

webpage: <https://www.dowaytech.com>.

You can also scan the QR codes below to access the official website of MDT.

The [Magnetometer Documentation] will be updated from time to time. On the official website of MDT, click on: Products→USB Magnetometer→USB2xxxx, and download it.

7. The above content is mainly about the use of USB magnetometer on Windows PC.

8. For instructions on using the Android version GUI of the USB magnetometer, please refer to the “User manual Android version”.

The USB magnetometer Android version GUI is a simplification of the Windows PC version. Therefore, the use of USB magnetometers on Android Device can only achieve simple functions and deal with basic problems.

To enable more functions of the USB magnetometer and deal with most problems, it is necessary to connect the USB magnetometer to Windows PC .

