

DWAIN-DEV



- Requires link to your own *Raspberry Pi* device! Otherwise, all *Rasspberry Pi* links will go to public information / docs only.

No *Raspberry Pi* device? Try **DWAIN-WEB** tools instead

Raspberry Pi device - How to measure:

SELECTING A RASPBERRY Pi DEVICE

1. Login to your pre-configured RaspberryPi device via SSH or web browser (optionally, run `/opt/dwain/dwain_dev.py`)
2. Hold your selected device as per image(s) in the sections below!.
3. Pause for a moment & relax.
4. Default session username will be:
`root@localhost`
5. When ready to start recording, enter a menu item number:
`number 1 for PEN MOUSE`
6. The X-Y[-Z] co-ordinates & number of measurements are displayed on-screen.
7. The recording will stop automatically after specified number of measurements.
8. When the number of measurements has been recorded, your data will be saved & processed.
9. All saved file names and locations are displayed on screen.
10. After a few minutes, when logged-in, you may view / download your data.
11. Read more detail below, including how to understand & use your data...

Enter the number of your choice:

1. Generate PEN MOUSE dataset.
2. Generate MMA ACCEL dataset.
3. Generate WII ACCEL dataset.
4. Quit.

Enter number of your selection:

PEN MOUSE



1. Login and select a device as per above section: 'SELECTING A RASPBERRY Pi DEVICE'.
2. Do NOT rest your arm / wrist on anything while using the mouse!
3. Pause for a moment & relax.
4. When ready, enter a menu item number:
number 1 for PEN MOUSE
5. Steadily, slowly move mouse as drawing/tracing a circle spiral in a clock-wise direction./
 1. * You may prefer to print out a local image of a circle /spiral & trace with your mouse.
6. The X-Y[-Z] co-ordinates & number of measurements are displayed on-screen.
7. The recording will stop automatically after specified number of measurements.
8. When the number of measurements has been recorded, your data will be saved & processed.
9. All saved file names and locations are displayed on screen.
10. After a few minutes, when logged-in, you may view / download your data.
11. Read more detail below, including how to understand & use your data..

MMA ACCEL



1. Login and select a device as per above section: 'SELECTING A RASPBERRY Pi DEVICE'.
2. Sit upright in a chair and place your hand along a leg with thumb at top (see image)
3. Fix (e.g. tape or rubber band) or hold the MMA-Accel on that out-stretched hand (see image)
4. Pause for a moment & relax.
5. When ready, enter a menu item number:
number 2 for MMA ACCEL
6. Steadily, slowly move mouse as drawing/tracing a circle spiral in a clock-wise direction.
7. The X-Y[-Z] co-ordinates & number of measurements are displayed on-screen.
8. The recording will stop automatically after specified number of measurements.
9. When the pre-configured number of measurements has been recorded, your data will be saved & processed.
10. All saved file names and locations are displayed on screen.
11. After a few minutes, when logged-in, you may view / download your data.

12. Read more detail below, including how to understand & use your data..

Wii ACCEL



1. Login and select a device as per above section: 'SELECTING A RASPBERRY Pi DEVICE'.
2. Do NOT rest your arm / wrist on anything while using the *Wiimote*!
3. Pause for a moment & relax.
4. Hold the Wiimote at arms-length, straight/ level and horizontal (see image)
5. When ready, enter a menu item number:
number 3 for Wii ACCEL
6. The X-Y[-Z] co-ordinates & number of measurements are displayed on-screen.
7. The recording will stop automatically after specified number of measurements.
8. When the number of measurements has been recorded, your data will be saved & processed.
9. All saved file names and locations are displayed on screen.
10. After a few minutes, when logged-in, you may view / download your data.
11. Read more detail below, including how to understand & use your data..

QUIT

1. The recording will stop automatically after specified number of measurements.
2. When the number of measurements has been recorded, your data will be saved & processed.
3. All saved file names and locations are displayed on screen.
4. When ready, enter a menu item number:
number 4 to QUIT
5. Read the wiki for more detail, including how to understand & use your data..

VIA RASPBERRY Pi (Links to sensors & information):

NOTE: Requires your own *Raspberry Pi* device. If not, these menu items will link to information about example *Raspberry Pi* sensors only. [Pen Mouse 3D Accelerometer](#) [Wii Accelerometer](#) [Pi Data Library](#) [HOME](#)

References:

From:

<https://dwain.scidfx.com/> - **D.W.A.I.N.**

Permanent link:

https://dwain.scidfx.com/public/dwain-dev_how-to

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