



How to calibrate the touchscreen



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Touchscreen is more precise after a calibration, but this action is not mandatory.

Calibration data are erased after each firmware download into STMicroelectronics boards.

The steps described below have to be performed on a running board :

- Edit and change the value of the `touchscreen_calibrator` to **true** in the `libinput` section of the `weston.ini` Weston configuration file^[1]. `#libinput` shall be uncommented.

```
Board $> vi /etc/xdg/weston/weston.ini
[...]  
[libinput]  
touchscreen_calibrator=true  
calibration_helper=/bin/echo  
[...]
```

- Restart weston

```
Board $> systemctl restart weston
```

- List all the touchscreen devices

```
Board $> weston-touch-calibrator  
could not load cursor 'dnd-move'  
could not load cursor 'dnd-copy'  
could not load cursor 'dnd-none'  
device "/sys/devices/platform/soc/40012000.i2c/i2c-0/0-002a/input/input1/event1" -  
head "DSI-1"
```

- Launch calibration with the input of the touch panel

```
Board $> weston-touch-calibrator /sys/devices/platform/soc/40012000.i2c/i2c-0/0-002a  
/input/input1/event1
```

If the calibration succeeds, no message will be displayed on the console. If it fails, the following message will appear:

```
Board $> weston-touch-calibrator error: Calibration verification failed, too large  
error.
```

Touchscreen identifier may vary, depending on the devices that are connected to the board. Recommendation is to unplug all the additional input devices before booting. Otherwise, it is up to You to adapt the command line.



References

- [Ubuntu weston.ini manpage](#)

Display Serial Interface (MIPI[®] Alliance standard)