Eccentricity Detection Stabilizer ES-001 / ES-002

Firmware Update Ver. 2.1.1

Changes since Ver. 2.0.1. **Operation of the unit is unchanged.** You can update from a web browser on your computer.

1 German and Simplified Chinese added as display languages

Four languages are now available: Japanese, English, German and Simplified Chinese. To switch, tap the gear icon at the top right of the measurement screen and choose Language. Every screen on the unit, including Config, Information and Graph, is shown in the selected language.

Language screen (German selected)

2 Longer battery life

Power management has been optimised. Lower power consumption extends continuous operating time by about 20%.

Ver. 2.0.1	approx. 4 h
Ver. 2.1.1	approx. 4.9 h

With weak batteries, the screen could flash white right after power-on and the unit would fail to start. This has been fixed.

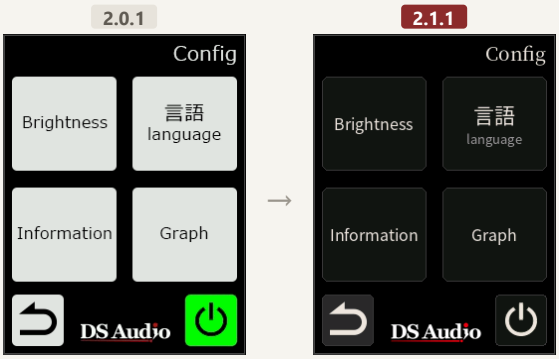
3 Eccentricity display adjusted

The display of small eccentricity values has been revised. Values below 10 µm are close to the measurement limit and do not settle, so they are now shown as "<10" instead of a number.

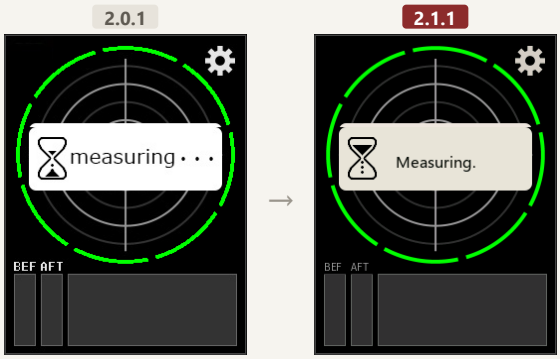
Number shown even below 10 µm — "<10" below 10 µm

4 Refreshed display with smoother screen transitions

The whole interface now uses a dark colour scheme and screen transitions are smoother. Overall display quality has also been improved.



Config screen — Config screen



Measuring — Measuring

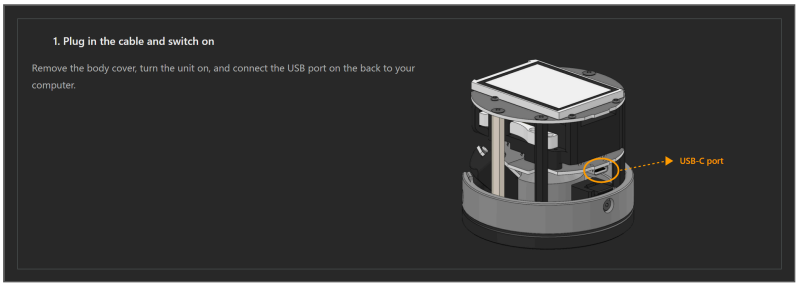
How to update Ver. 2.1.1

On a computer (Windows or Mac), open the page below in Google Chrome or Microsoft Edge. No app installation or file download is needed. Smartphones and tablets are not supported. You will need a USB cable (USB-C, data capable) to connect the unit to the computer.

`https://ds-audio-w.biz/support/firmware/es002/index.html`

1 Plug in the cable and switch on

Remove the body cover, switch the unit on, and connect the USB-C port on the back to your computer with the USB cable. During the update the unit is powered from the cable, so the battery level does not matter.

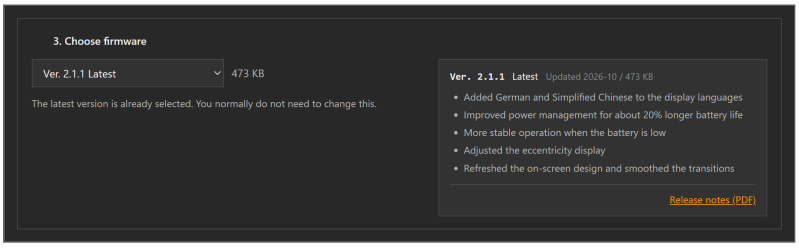


2 Connect the unit

Press Connect. The browser opens a small window listing available devices. Select **“STM32 Virtual ComPort”** and press Connect. Once connected, the page shows “Connected” and the current firmware version.

3 Choose firmware

The latest version, Ver. 2.1.1, is selected by default. You normally do not need to change this.



4 Write

Press Write to start the update. **Do not unplug the USB cable until “Update complete” appears.** The unit restarts automatically; you can then unplug the cable and use it as usual.

> **A failed update will not damage the device.** On start-up the unit verifies the firmware and stays in update mode if it is invalid. If the update fails, simply press Write again. If you need help, use “Ask AI” at the bottom right of the page.