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THORLABS MEMS VCSEL Utility Changelog



Product Specifications

- **Product Name:** MEMS VCSEL Utility
- **Version:** 2.3.x
- **Compatibility:** Windows 11
- **Features:** Error Code Display, Mode Config Switches, Instantaneous Delay and Power Adjustments, Sweep Rate Display
- **Product:** MEMS-VCSEL Utility (version 2.3.x)

Key Features

- **Graphical User Interface (GUI)** for complete control of Thorlabs MEMS-VCSEL swept-source laser modules.
- **Device Communication:** Connects to MEMS-VCSEL modules via COM-port (serial) detection.
- **Error Code Display:** Shows system and hardware error codes for diagnostics.
- **Mode Configuration Switches:** Switch between operational modes with dedicated toggle controls.
- **Instantaneous Adjustments:**
 - **Delay** and **Output Power** can be adjusted in real time (no need to press “Save”).
- **Sweep Rate Display:** Live display of the current sweep rate.
- **System Compatibility:** Updated drivers ensure proper function on Windows 10 & Windows 11.
- **SZ System Support:** Full integration with Thorlabs’ SZ-series swept source systems.
- **Bug Fixes (v2.3.1):** Replaced deprecated COM-port interface calls for stable connectivity.

Installation Instructions

Download Software

- Go to the Thorlabs MEMS-VCSEL Utility software page.
- Download the latest installer package (v2.3.1, ~106 MB).

Run Installer

- Extract the downloaded ZIP file (if applicable).

- Double-click the installer `.exe` file.
- Follow on-screen prompts to complete installation.

Driver Setup

- During installation, the required USB/COM drivers for MEMS-VCSEL devices will also be installed.
- If prompted, allow Windows to trust the driver publisher.

Restart (if required)

- Some systems may require a restart to complete driver initialization.

Usage Instructions

Connect Device

- Connect your MEMS-VCSEL module (or SZ system) to the PC via USB.
- Power on the device.

Launch Utility

- Open **MEMS-VCSEL Utility** from the Start Menu or desktop shortcut.
- The software should auto-detect the COM-port device.

Verify Connection

- Check that the module appears in the device list.
- If not detected, ensure drivers are installed correctly and try a different USB port.

Configure Operation

- Use Mode Configuration Switches to select the operating mode.
- Adjust Delay and Output Power values — updates apply instantly (no “Save” needed).
- View the Sweep Rate and system status directly in the GUI.

Error Monitoring

- Any device errors will appear in the Error Code Display.
- Refer to the device manual for error code meanings and corrective actions.

Save/Load Settings

- Optional: Save preferred configurations for repeat experiments.
- Settings can be reloaded at startup for faster setup.

Care & Maintenance

Software Care

- Always use the latest version of the MEMS-VCSEL Utility (currently v2.3.1) to ensure bug fixes and Windows compatibility.
- Keep your Windows OS updated to avoid driver conflicts.
- Regularly back up your saved configurations in case of reinstallations or OS resets.
- Close the software properly before disconnecting the device to prevent corrupted settings.

Device Handling

- Connect the MEMS-VCSEL module only via approved Thorlabs cables/adapters.
- Avoid plugging/unplugging while the software is actively communicating with the device.
- Ensure stable USB connection—use direct ports instead of hubs where possible.

Cleaning

- Clean the external housing of the MEMS-VCSEL unit with a lint-free dry cloth.
- Do not use solvents, alcohol, or abrasive materials near optics or electrical ports.
- Keep optical connectors and fiber ends dust-free; use proper fiber cleaning tools.

Environment

- Operate in a clean, dry laboratory environment with stable temperature and low dust.
- Avoid exposing the device or PC interface to vibrations, shocks, or humidity.
- Store the system in its protective case when not in use.

Maintenance Checks

- Periodically check error codes within the software for signs of degraded performance.
- Verify sweep rate stability and output power levels regularly for consistency.
- If unexpected behavior persists, reinstall the software and drivers before contacting support.

Service

- The MEMS-VCSEL Utility itself requires no user-serviceable parts.
- For persistent errors or hardware faults, contact Thorlabs Technical Support.
- Only trained technicians should attempt hardware repairs or firmware modifications.

Product Usage Instructions

Installation

1. Download the MEMS VCSEL Utility software from the official website.
2. Run the installer and follow the on-screen instructions to complete the installation process.

Connecting Device

1. Connect the MEMS VCSEL device to your computer using a compatible USB cable.
2. Launch the MEMS VCSEL Utility software.
3. The software should automatically detect the connected device.

Using Features

1. Navigate through the software interface to access different features like Error Code Display, Mode Config Switches, etc.
2. Make necessary adjustments such as Delay and Power settings without needing to

press the 'Save' button.

Updating Drivers

1. Periodically check for driver updates within the software.
2. Download and install any available driver updates to ensure compatibility with Windows 11.

Frequently Asked Questions

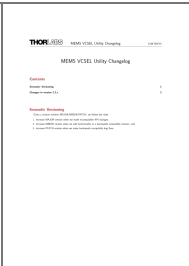
How do I resolve compatibility issues with Windows 11?

Ensure that you have the latest version of the MEMS VCSEL Utility software installed, including updated drivers that support Windows 11.

What should I do if the device is not detected by the software?

Try reconnecting the device, restarting the software, or checking the USB connection for any issues. If problems persist, contact customer support for further assistance.

Documents / Resources

	THORLABS MEMS VCSEL Utility Changelog [pdf] Owner's Manual MEMS VCSEL Utility Changelog, VCSEL Utility Changelog, Utility Changelog, Changelog
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References

- [User Manual](#)

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