

gLux2 Software

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	Table of Contents	Page
1	Introduction	3
1.1	Installation Requirements	3
1.2	Driver Installation	3
2	Installing GOSSEN Software	4
2.1	Installing gLux2 Software	4
2.2	Uninstalling gLux2 Software	5
3	Using gLux2 Software	6
3.1	Information	6
3.1.1	Version	6
3.1.2	Instructions	7
3.1.3	AutoConfig	7
3.1.4	Device Selection	7
3.1.5	Language Selection	7
3.1.6	Measurement	7
3.2	Meter Operation	8
3.2.1	Selecting a Measured Quantity	8
3.2.2	Selecting a Measuring Range	8
3.2.3	Displaying Measured Values	9
3.2.4	Continuous Measurement On / Off	9
3.2.5	Settings	9
3.2.6	Display Mode – Chart / List	10
3.2.7	Reading Out Memory	10
3.2.8	Clearing Memory	11
3.2.9	Saving a List	11
3.2.10	Deleting a List	11
3.2.11	Test Pattern	12
4	Interface description	13

1 Introduction

Welcome to GOSSEN gLux2 software. GOSSEN gLux2 is a compact, high performance program which supplements your MAVOLUX USB, MAVO-MONITOR USB or MAVO-SPOT 2 USB meter.

gLux2 software provides you with the following functions:

- Control meters and display measured values
- Continuous operation via USB
- Perform measurements at predetermined intervals in specified measuring ranges
- Display measured values in a list or as a graphic
- Save measured values and lists to a readable ASCII file for further processing in databases or spreadsheet programs

1.1 Installation Requirements

The following prerequisites must be fulfilled in order to use gLux2 at your PC:

- Your PC must be equipped with a USB port.
- Operating system: Microsoft Windows as of XP
- Roughly 4 MB available memory capacity

1.2 Driver Installation

Before installing gLux2 software, the USB drivers for the meter must be installed.

Connect the meter to the PC with the included USB cable to this end. If the PC is connected to the Internet, Windows detects the device and installs the drivers automatically.

In rare cases, Windows might not find the drivers online. In this case, the drivers have to be downloaded and installed manually.

Download the D2XX drivers directly from [FTDI Chip](http://www.ftdichip.com/Drivers/D2XX.htm) to this end: <http://www.ftdichip.com/Drivers/D2XX.htm>

You'll find a current driver for your operating system in the table on this website (also available as an executable setup file in the "Comments" column for easier installation with installation instructions).

If Windows is still not able to install drivers for your device, please refer to the manual for the driver installation for old MAVO-USB devices.

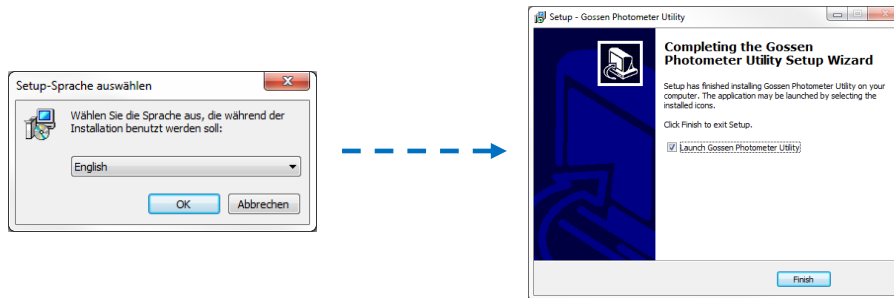
2 Installing GOSSEN Software

After the drivers have been installed and the PC detects the meter, gLux2 can be installed. It's absolutely essential to proceed the above specified order.

2.1 Installing gLux2 Software

Open the **gLux2 Software** folder and execute the **setup.exe** file.

Select the desired setup language and follow the instructions until installation has been completed.



Installation of the GOSSEN software components has then been completed.

What to do if software installation fails:

Proceed as follows if errors occur during installation and the software components are not installed correctly:

- If possible, uninstall all software components in accordance with the instructions included below in section 2.2 of these operating instructions.
- Reboot the PC.
- Check to determine whether or not the drivers for the meter are installed, and install them if necessary in accordance with section 1.2 of these operating instructions.
- Repeat the entire software installation procedure.

If software installation problems persist, feel free to contact our customer service department.

2.2 Uninstalling gLux2 Software

In order to uninstall gLux2 software, open the Windows Explorer and access the installation directory.

The default directory path is **c:\Program Files (x86)\Gossen Photometer Utility**.

From there, execute the **unins000.exe** file and follow the instructions which appear at the screen.

3 Using gLux2 Software

Connect your GOSSEN meter to the PC via the included USB cable and start gLux2 software.

In the case of the MAVOLUX USB and the Mavo-Monitor USB, the unit of measure display blinks when the computer has detected the meter in order to indicate continuous operation via the USB Port. In the case of the Mavo-Spot 2 USB, the battery symbol disappears and “USB” is displayed instead at the top left-hand corner of the window.

3.1 Information

After the program has been started, the “Info” window appears.



3.1.1 Version

After clicking the “**Issue**” button, the software reads the device ID and the firmware version of the connected meter. This procedure is executed automatically when gLux2 software is started.

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3.1.2 Instructions

After clicking the **“manual”** button, the instructions for the selected meter appear in the selected language.

The most up-to-date operating instructions for each respective meter can be found on our website at www.gossen-photo.de.

3.1.3 AutoConfig

The connected meter is detected by clicking the **“auto-config”** button and selected automatically under **“select device”**.

If your meter is not detected, make sure that it's correctly connected to the PC via the USB cable and that the drivers are correctly installed. See sections 1.2 and 3 in these operating instructions for further information.

3.1.4 Device Selection

If your meter was already connected to the PC before starting gLux2 software, device detection is automatic.

If this setting is incorrect or if you didn't connect the meter until after starting the software, you can select your device under **“select device”**. This is necessary in order to assure that measuring range selection and the measuring functions work correctly.

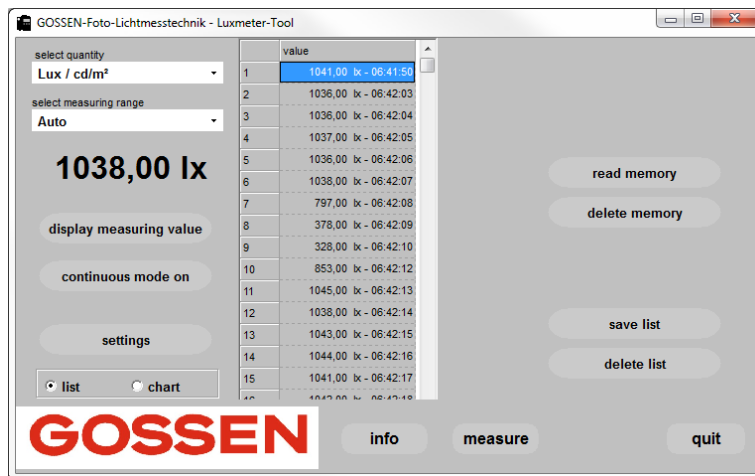
3.1.5 Language Selection

You can select a menu language for gLux2 software here.

3.1.6 Measurement

The meter operation and measuring window appears after clicking the **“measure”** button.

3.2 Meter Operation



3.2.1 Selecting a Measured Quantity

You can select either metric (lx / cd/m²) or imperial (fc / fL) units of measure here.

In the case of MAVOLUX USB meters, the software automatically determines whether or not a luminance attachment has been screwed into place and autonomously selects either illuminance or luminance.

3.2.2 Selecting a Measuring Range

You can switch back and forth between automatic and manual measuring range selection here. All of the measuring ranges supported by your meter are automatically made available for selection.

In the case of the MAVO-SPOT 2 USB, measurement is only possible in the automatic mode.

3.2.3 Displaying Measured Values

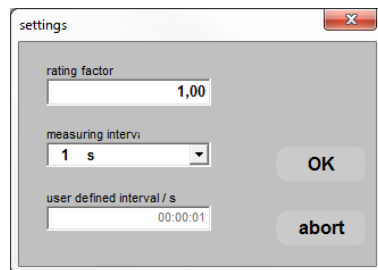
A single measurement can be performed within the selected measuring range and the measured value can be queried from the meter by clicking the “**Display Measuring Value**” button. At the same time, an entry is made to the list or to the graphic in the display.

Continuous Measurement On / Off

Periodic measurement can be started or stopped by clicking the “**Continuous Measurement**” button. A sampling interval can be selected in the settings (see section 3.2.5). The measured values are automatically entered to the list or displayed in the graphic.

If the list or the graphic already contains measured values, a window appears in which you can specify whether you want to clear the current list or add new measured values to it.

3.2.5 Settings



Rating Factor

This function provides you with the opportunity of adjusting the measured value by a given factor, for example in order to take a calibration factor into account.

Sampling Interval / s

The sampling interval for the “continuous measurement” function can be selected here.

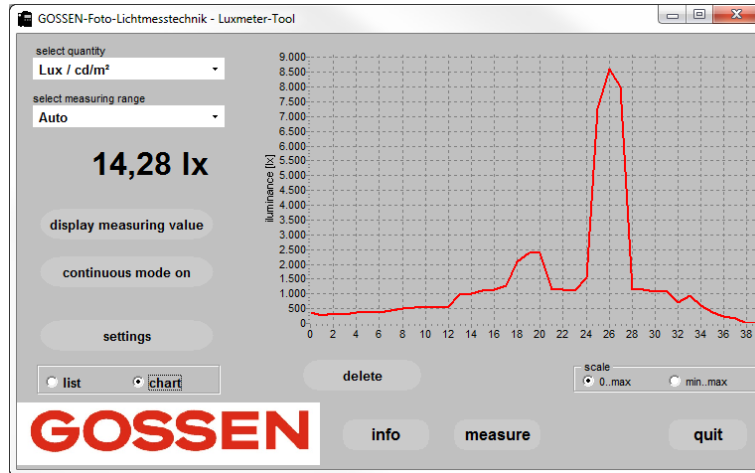
If “user defined” is chosen, any desired sampling interval can be entered under “User Defined Interval / s”.

The MAVOLUX USB and the MAVO-MONITOR USB have a minimum sampling interval of 0.5 seconds. The minimum sampling interval for the MAVO-SPOT 2 USB is 5 seconds.

3.2.6 Display Mode – Chart / List

- List: The measured value and the associated computer system time are indicated (see screenshot in section 3.2)
- Chart

Switching back and forth between these two views is also possible during continuous measurement.



3.2.7 Reading Out Memory

The “**read memory**” button is available in the list view and can be used to read out values into the list which have been saved to memory at the meter. If memory groups have been activated at the MAVO-SPOT 2 USB, all memory groups are read out and listed consecutively (P-01, P-02 ...).

3.2.8 Clearing Memory

The “**delete memory**” button is available in the list view and can be used to delete values which have been saved to memory at the meter.

3.2.9 Saving a List

The “**save list**” button is available in the list view and can be used to save the measured values from the list to the PC. The memory location and the name of the stored list must be selected to this end.

The measured values are saved to a text file in ASCII format and can be conveniently imported into a database or a spreadsheet program.

3.2.10 Deleting a List

The “**delete list**” button is available in the list view and can be used to clear the measured values from the list.

3.2.11 Test Pattern

If you have connected and set up a MAVO-MONITOR USB or a MAVO-SPOT 2 USB, the “testchart” button is available.



Test pattern density corresponds to the SMPTE test pattern. Acceptance and constancy tests can thus be executed in accordance with IEC 61223-2-5.

- 0% Black – measurement of minimum gray-scale value (L_{\min})
- 50% Gray – measurement of deviation in the image (L_{M1} , L_{E1-E4})
- 100% White – measurement of maximum gray-scale value (L_{\max})

4 Interface Description

The interface description is intended to provide programmers with assistance who want to control the meters with other applications (spreadsheet programs, databases etc.), or read out data from the meters.

Devices included in the MAVO-USB product range are equipped with a serial port (USB 1.1, low speed). A USB <-> UART (FT232BM) supplied by Future Technology Devices Intl. (FTDI) is used as an interface module.

Notes concerning programming of the module can be found on the manufacturer's website at <http://www.ftdichip.com/> or the website of the manufacturer's German representative at <http://www.unitronic.de/>.

Refer to section 1.2 of these operating instructions with regard to obtaining the required device drivers.

Nearly all device functions and settings can be remote controlled with software via the interface.

The respective device settings and confirmation messages are triggered by means of character strings (command frames) which are transmitted in ASCII code.