Biolumen

Master Control Unit Installation Guide

Requirements

Hardware: Master Control Unit (MCU)

Interface device (Windows Desktop, Laptop or Tablet)

Software: Windows XP or later

Google Chrome (with Chrome Apps)

BioLumen Control user interface app

Drivers: Windows should have the correct drivers installed. However, on some Windows releases or following operating system updates, it may be necessary to re-install these – should this be necessary, the drivers can be downloaded from the BioLumen support website

IMPORTANT: The system does **not require** an internet connection to install or run the application once the Chrome app has been successfully installed.

https://www.tropicalmarinecentre.com/en/biosystems/resources

Questions? Contact the support team at info@biosystems-tmc.co.uk

System Set-up

1. Download and install the BioLumen control user interface app
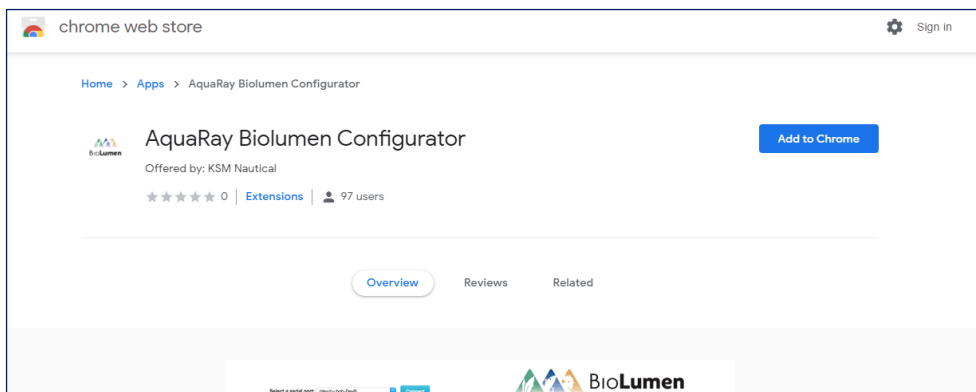
<div style="background:#1a2a5e; height:40px;"></div>

(if this link does not work, open Google Chrome and paste the url below into the address bar:

https://chrome.google.com/webstore/detail/aquaray-biolumen-configur/elfnkekhjmchpkjmafmggkinnjnbenkj)

1.1 Download the BioLumen Chrome App

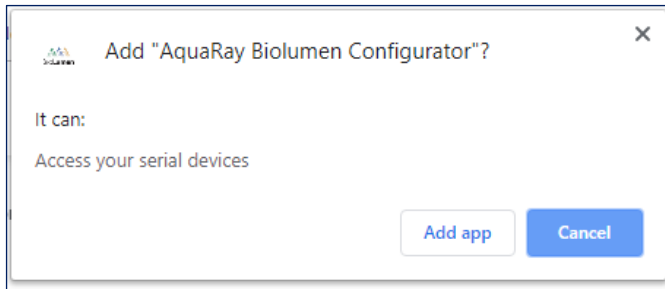https://www.tropicalmarinecentre.com/en/biosystems/resources

1.2 This will take you to the correct page in the Chrome web store

1.3 Click **Add to Chrome**

You will then be prompted to *Add "AquaRay Biolumen Configurator?"*. Click **Add app.**

Add "AquaRay Biolumen Configurator"? ×

It can:

Access your serial devices

[Add app] [Cancel]

Note: The MCU is designed to communicate with the interface device via Bluetooth. Where this is not possible or Bluetooth connectivity is not available, there is a USB cable stored in the MCU unit which can be used to connect the MCU directly to a USB port on the interface device. Questions? Email the support team at info@biosystems-tmc.co.uk

2. Establish a Bluetooth connection between the MCU and the interface device

Note: screenshots are from Win10 – earlier versions may vary – contact support for assistance if required at info@biosystems-tmc.co.uk
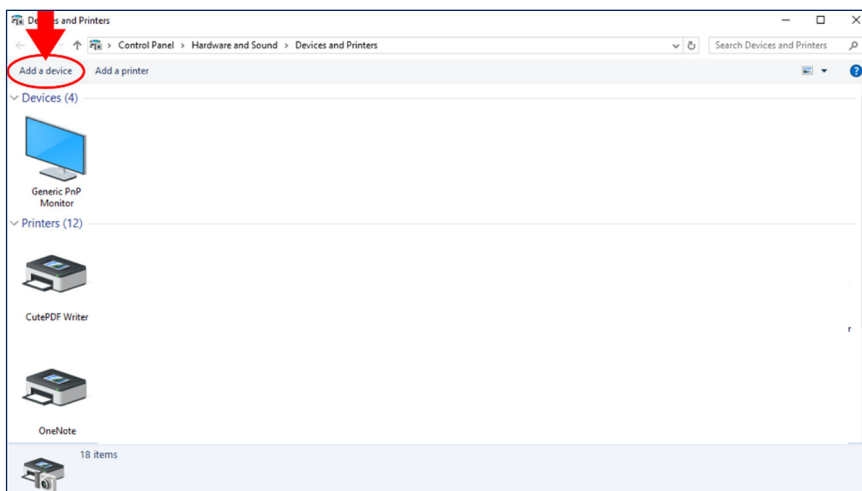
2.1 "Pair" the MCU to the interface device using Bluetooth functionality

- *a. Make sure that the MCU is plugged in and switched on*
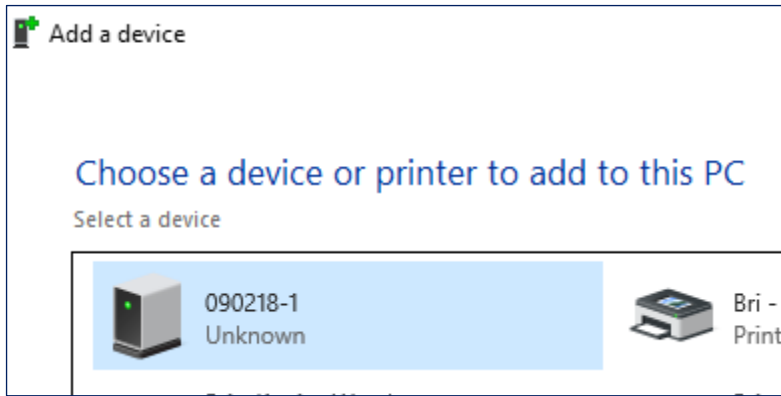- *b. Navigate as follows:*

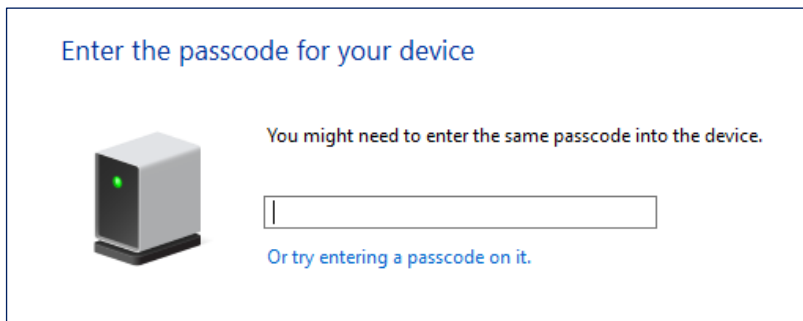*Start – Settings – Bluetooth & other devices – Devices and printers*

        c.   *At the top left of screen, select "Add a device"*

        d.   *Select the MCU from the displayed options in the "Add a device" pop-up screen (it should be identifiable by its serial number which should match the number printed on the outer label of the unit)*

> e. When prompted, input the MCU passcode (factory default is "**0000**") and click "Next":

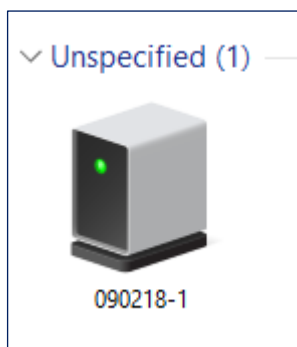The MCU will now "paired" with the interface device and will appear in the "Devices and Printers" window.

2.2 Identify the Bluetooth communication port (COM port) allocated to the MCU
by the Windows operating system

Note: When the MCU is first "paired" to a Windows interface device, the Windows operating system allocates a communications port (COM port) to the MCU. You will need to know which port has been allocated to the MCU before you can open the Bluetooth connections. To find the COM number for your device, follow the steps below.
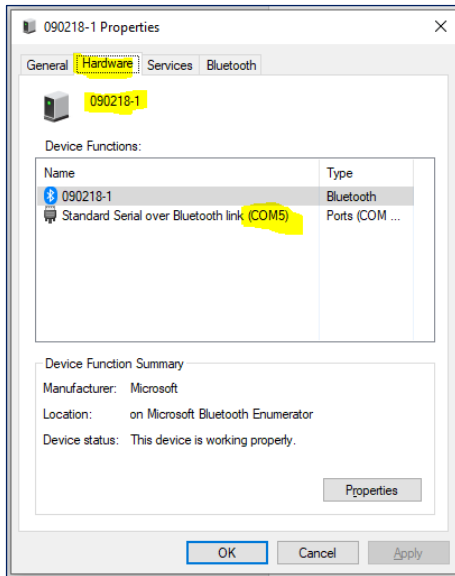
IMPORTANT: The COM number will stay the same for each MCU, provided the same Windows device is used to connect to that MCU. However, if the same MCU is connected to a different computer, this procedure will need to be repeated and the COM number may be different.

Questions? Email the support team at enquiries@biosystems-tmc.co.uk

    a.   *Navigate to the "Devices and Printers" menu*

    b.   *Right-click on the MCU icon:*

    c.   *Select "Properties" then "Hardware" – this will confirm which COM port has been allocated to the MCU – make a note of the number.*

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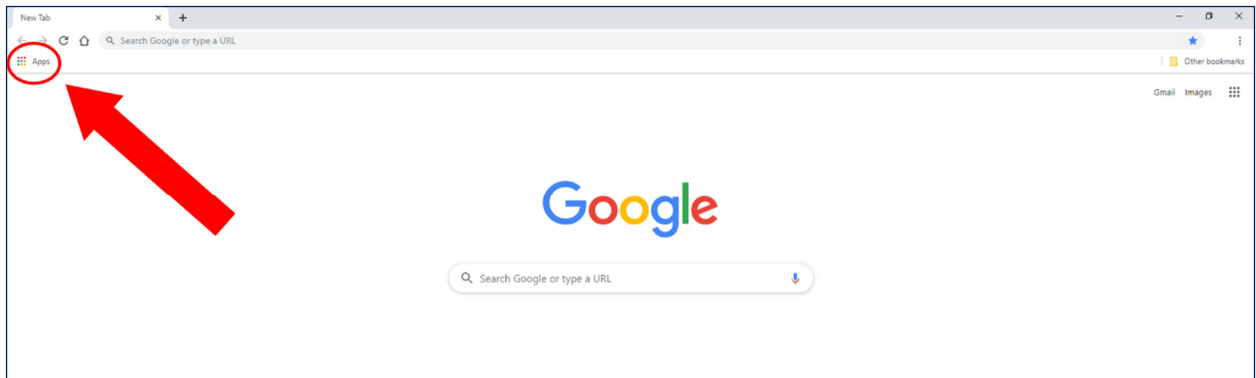
info@biosystems-tmc.co.uk

The MCU is now ready to be connected to the BioLumen Chrome user interface app.
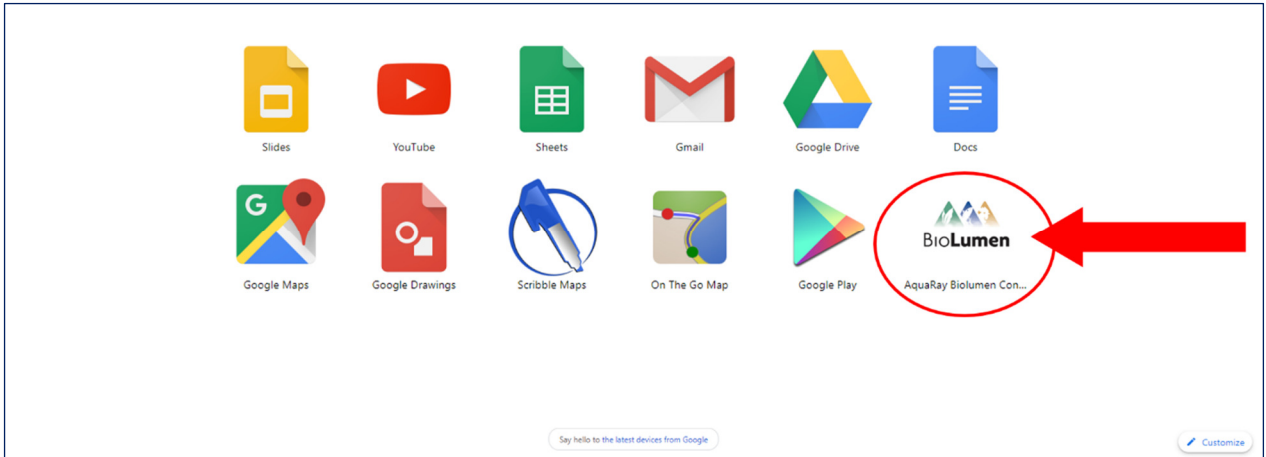
User Guide

Connect the MCU to the BioLumen control user interface app

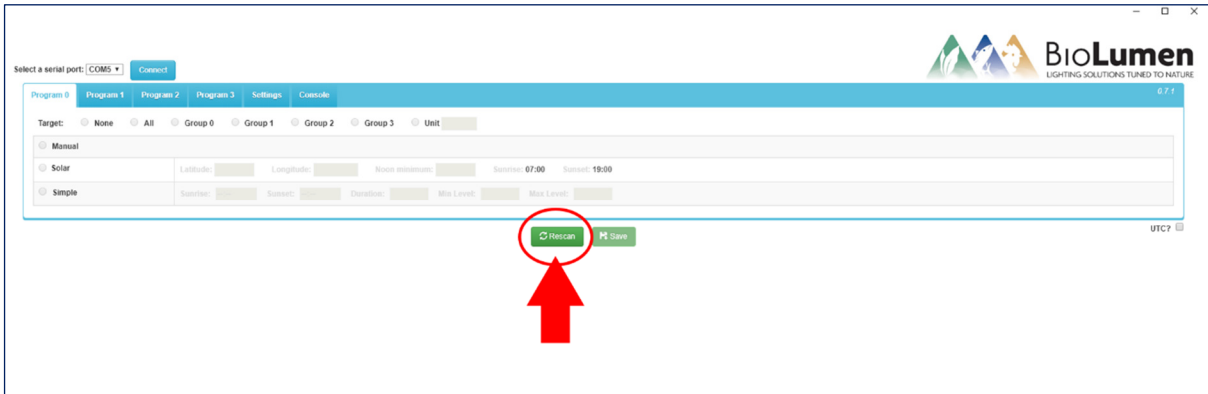a. Open Google Chrome and click on the "Apps icon to open the "Apps" menu

...and click on the **BioLumen control user interface app icon.** If you don't see the "apps" icon, type **chrome://apps/** in the search bar…

(Tip: to create a short-cut to the app, simply right-click on the icon and select "Create shortcuts…")
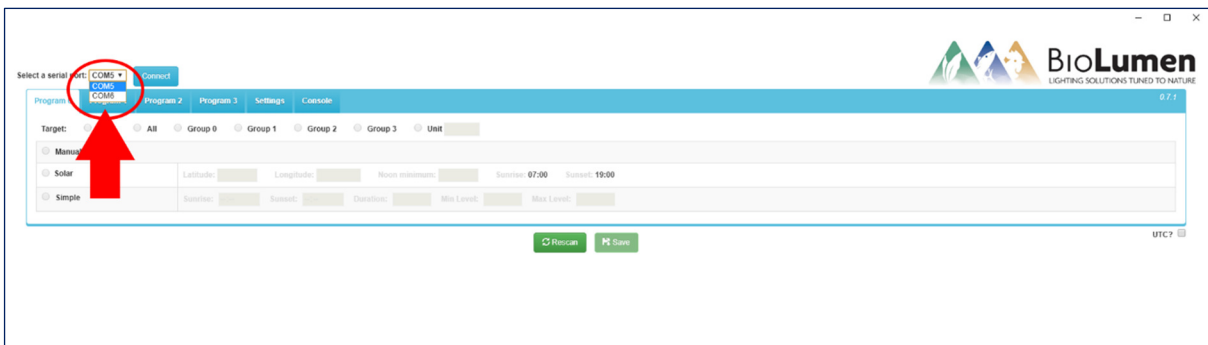
This will open the **BioLumen control user interface app**.

    b.   Wait 5 seconds, and then click "Rescan":

    c.   Open the drop-down list at the top-left of the screen and select the COM number identified in step 2 of the Set-Up guide.
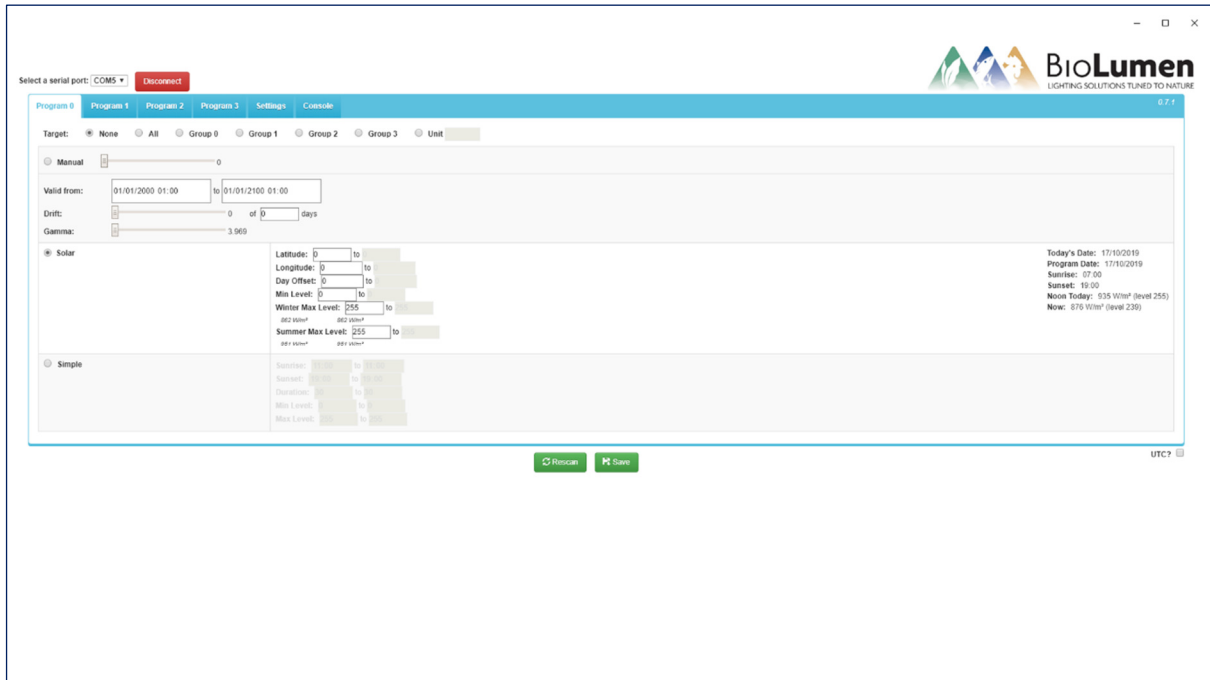
d.   Click "Connect".

After a short pause, the "Connect" button will go red and change to "Disconnect"

e.   Click "Rescan" again – this will refresh the connection and update the system.

The BioLumen User Interface is now connected to the MCU and ready to be configured.

For more details and explanations of the system functionality, please refer to the video tutorial library at https://www.tropicalmarinecentre.com/en/biosystems/resources.

Questions?
You can reach the BioLumen support team by emailing info@biosystems-tmc.co.uk

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