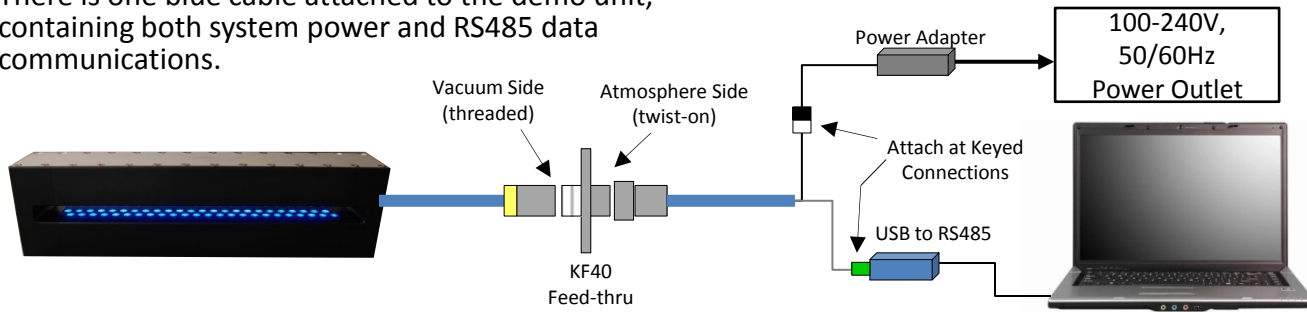


System Interconnect

There is one blue cable attached to the demo unit, containing both system power and RS485 data communications.

Note: This demo unit can be run in atmosphere or vacuum.



1.
 - Connect the Vacuum Side (threaded) connector from the Infinity unit to the KF40 electrical feed-thru.
 - Connect the Atmosphere Side (notched, twist-on) to the KF40 electrical feed-thru.
 - Attach the black Power Adapter and connect to 100-240V/50-60Hz power (may require adapter). This will cause the LED lights to perform a [quick] startup sequence (*RGB systems only*).
 - Attach the USB to RS485 adapter and connect to Windows 7/8/10 PC or tablet. The connection will cause the computer to sound the USB-attach tone (if sound is enabled), and drivers to load.

Software Load

2. Visit <http://landminstruments.com/infinity-downloads/> to download “L and M Infinity Suite #-#-#”. The download page includes a Readme file with software usage information. This Readme file is also available for launch at the completion of the software installation.
3. Launch the installer that was downloaded above and follow the prompts. This will load the Infinity Software Suite, placing the “L&M Infinity” folder on the desktop.

Run the Software

4. Find and open the “L&M Infinity” desktop folder and run the “RTGOM_Infinity” application. There are other applications in this folder, all of which are described in the Readme referenced above.



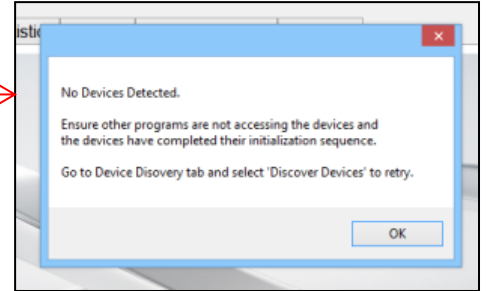
Next Page / Over

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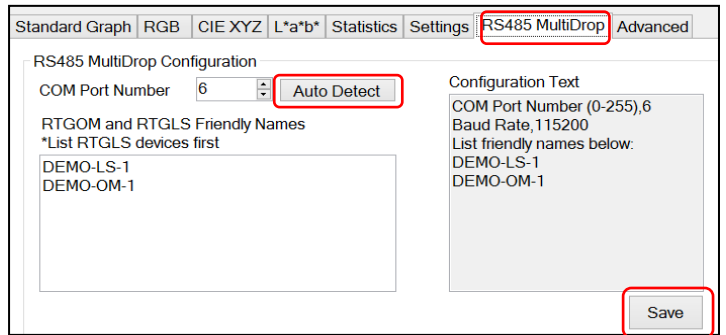
Configure Software

This vacuum demo unit is configured to run with RS485 communication (as opposed to USB). This requires additional configuration as indicated below. This setup is only required one time.

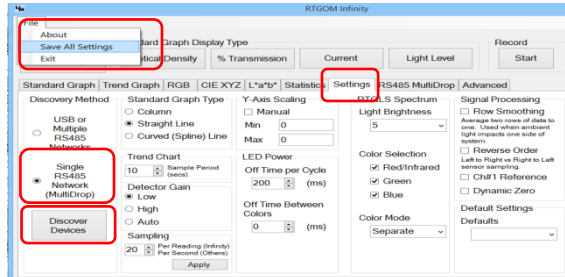
5. Wait for the “No Devices Detected” error message. This can take a few seconds.



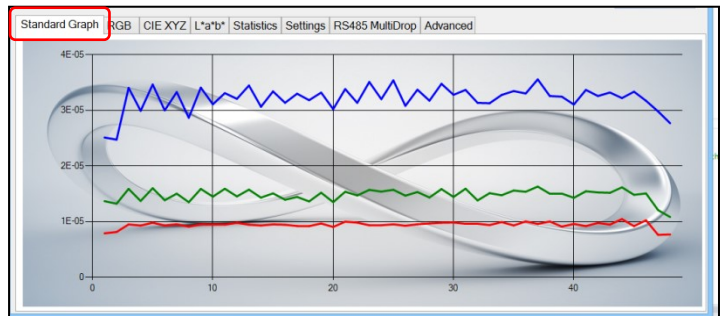
6. Select ‘RS485 MultiDrop’ Tab
Select ‘Auto Detect’
If a “No devices found...” message appears, jump to Page 3 below.
Select ‘Save’
Note: The COM Port Number will likely differ from this example.



7. Select ‘Settings’ Tab
Select ‘Single RS485 Network (MultiDrop)’
Select File->Save All Settings at top left
Select ‘Discover Devices’



8. Select ‘Standard Graph’ Tab
RGB sample at right (Near-IR is one line).
You are READY TO GO!
See the Readme file for usage notes.
See Page 4 for Near-IR monitoring.



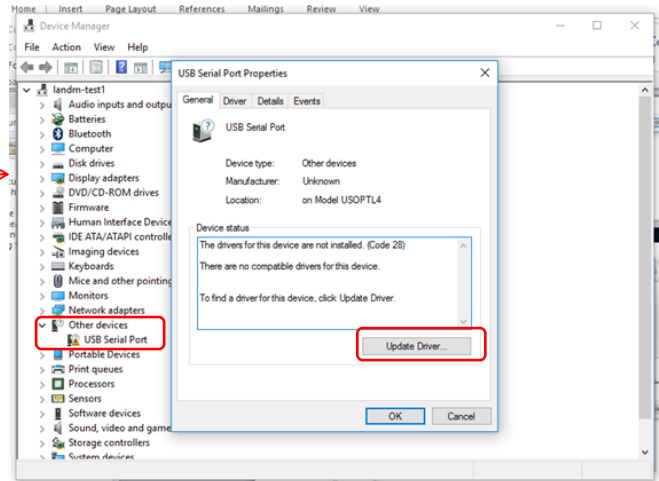
Note: The RTGLS_Infinity application can be run after this configuration is completed. This requires exiting the RTGOM_Infinity application.

Install “USOPTL4” (USB to RS485) Driver

If you arrived here, your system could not locate drivers for the B&B Electronics USOPTL4 USB to RS485 device. The instructions below may differ slightly depending on your version of operating system. The instructions assume a basic familiarity with installing device drivers.

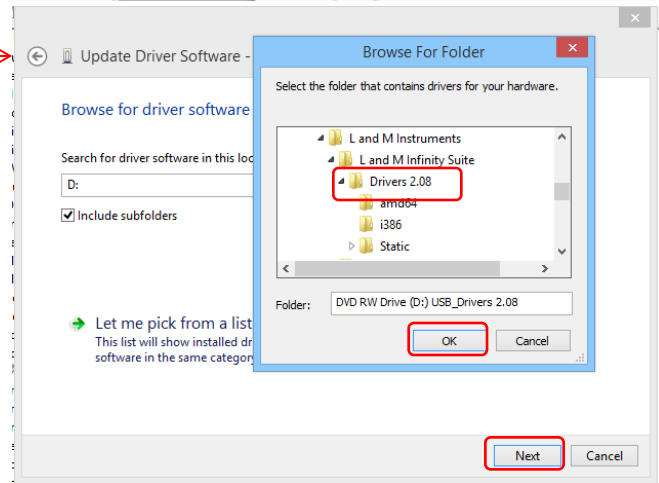
6a.

- Run “Device Manager”
- Locate the “USB Serial Port” or “USOPTL4” under “Other Devices” or “Ports (COM & LPT)”
- Open the Properties control for the device and select ‘Update Driver’. This may be under the ‘General’ tab or a ‘Driver’ tab.



6b.

- Select ‘Browse my computer for driver software’ (the driver files were installed with the L&M Infinity Suite)
- Browse to Program Files (x86)\L and M Instruments\L and M Infinity Suite\Drivers 2.08
- Select ‘OK’
- Select ‘Next’



6c.

- Follow the prompts to complete the driver installation
- Return to Step 6 above (Page 2) and start at: Select ‘Auto Detect’

Near-Infrared System Usage, including High O.D. (0.00 -> 6.00) monitoring

The default system configuration is designed for monitoring three wavelengths (RGB). If you are running an NIR (Near-Infrared) system, you will want to configure the system as shown below.

From the Settings Tab:

- Select Default Settings -> Defaults -> Infrared
- For High O.D. also perform the following:
 - Settings Tab -> RTGLS Spectrum Light Brightness -> 8
 - Settings Tab -> Detector Gain -> Auto
 - Select File->Save All Settings at the top left

