

PASPORT LIGHT LEVEL SENSOR

This guide covers the major features of this product - it does not cover all of the available functions. This guide is not intended to replace the original equipment manual. Please refer to the manual for more detailed operating instructions and safety information.

EQUIPMENT DESCRIPTION

The PASPort Light Level Sensor [1] measures illuminance in Lux - lumens per square meter - up to 150,000 Lux. This sensor works in conjunction with the Xplorer GLX.

This manual covers the functions and range of the sensor. For use of the Xplorer GLX, please view the associated manual.



Figure 1: PASPort Light Level Sensor

EQUIPMENT OPERATION

BASIC OPERATION

1. Connect the sensor to one of the four available ports on top of the Xplorer GLX [2], or use the available extension cord between the GLX and the sensor [3].
2. An optional handle can be screwed into the side of the sensor [4]



Figure 2: Ports on Top of GLX



Figure 3: Sensor Extension Cable



Figure 4: Handle Attachment

3. Point the aperture [5] of the sensor towards the source of light that is being measured.



Figure 5: Aperture

SETTINGS

The Light Sensor has three buttons [6] on it to change the sensitivity level of the sensors. The range of each setting is:



: 1.5K, or best for illuminance between 0 – 1,500 lux (0.5 lux resolution)




: 15K, or best for illuminance between 0 – 15,000 lux (5 lux resolution)



: 150K, or best for illuminance between 0 and 150,000 (50 lux resolution)

Figure 6: Setting Buttons

When you first plug the sensor into the GLX the 15K  setting is automatically selected. When the light level exceeds the range of the current setting, it will be noticeable by a flat line at the maximum value [7] of the current setting. At this point the setting will need to be changed to ensure that accurate values are being obtained.


The resolution is best at lowest setting, therefore it is best to have the lowest setting possible selected. For example, when measuring a light intensity of 500 Lux, the  setting should be selected as it will provide much greater accuracy than the setting.



Figure 7: Value Out of Range

NOTES:

Ensure that the units being plotted on the y-axis of the graph are in Lux, and not 'old Lux'; this is a bug in the GLX firmware and is not an accurate measure of illuminance.

If you want to export light level data as a text file, you must collect your data in the **Table** format. If you collect data in the **Graph** format and then move to export data from the **Table**, your data will not show up. Refer to the **Xplorer GLX Quick Start Guide** for more information.