

LITTLEMORE SCIENTIFIC ENGINEERING



Software for use with the 764 Environmental Monitor

The RView program is provided for PC compatible computers running Windows 95 or 98

Functions:

- Program logger start time, logging interval etc
 - Download the logged data to the PC
 - Display the logged data as graphs, tables etc
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Program the Logger

Aim the logger at the PC infrared port and open the Set & Download window (one click in RView):

The screenshot shows a window titled "Set & Download" with a blue title bar. The window contains the following elements:

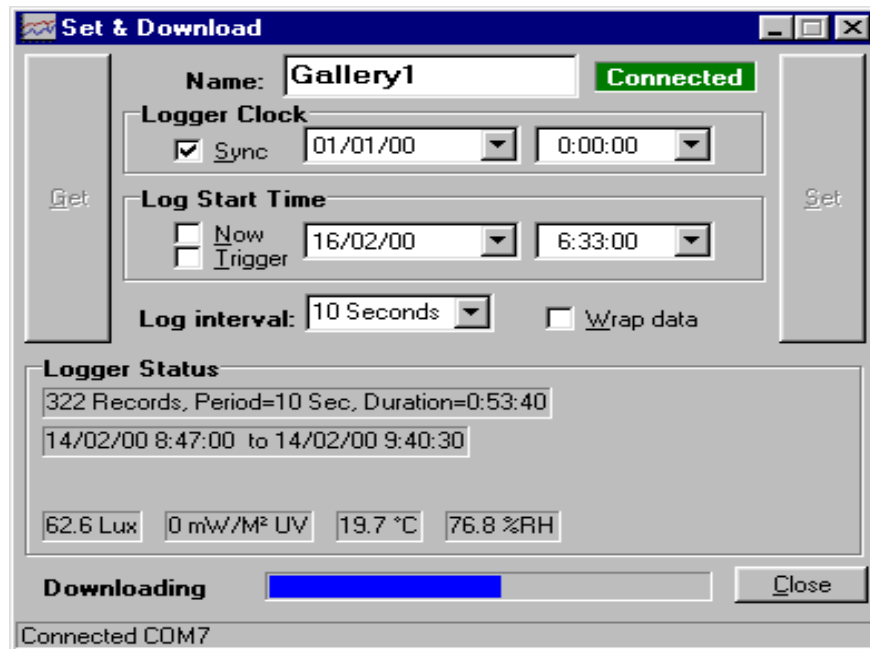
- Name:** Gallery1 (text field) and **Connected** (green status indicator).
- Logger Clock:** A section with a checked **Sync** checkbox, a date dropdown set to 01/01/00, and a time dropdown set to 0:00:00.
- Log Start Time:** A section with two radio buttons: **Now** (unchecked) and **Trigger** (unchecked). The **Trigger** option has a date dropdown set to 16/02/00 and a time dropdown set to 6:33:00.
- Log interval:** A dropdown menu set to 10 Seconds and a **Wrap data** checkbox (unchecked).
- Logger Status:** A text area displaying "322 Records, Period=10 Sec, Duration=0:53:40" and "14/02/00 8:47:00 to 14/02/00 9:40:30". Below this, four data fields are shown: 419 Lux, 34.1 mW/M² UV, 19.3 °C, and 77.0 %RH.
- Buttons:** "Download" and "Close" buttons at the bottom.
- Status Bar:** "Connected COM7" at the bottom of the window.

The current logger settings can be viewed by pressing the Get button or the logger can be programmed by filling in the form and pressing the Set button.

"Logger Status" shows the data the logger has now.

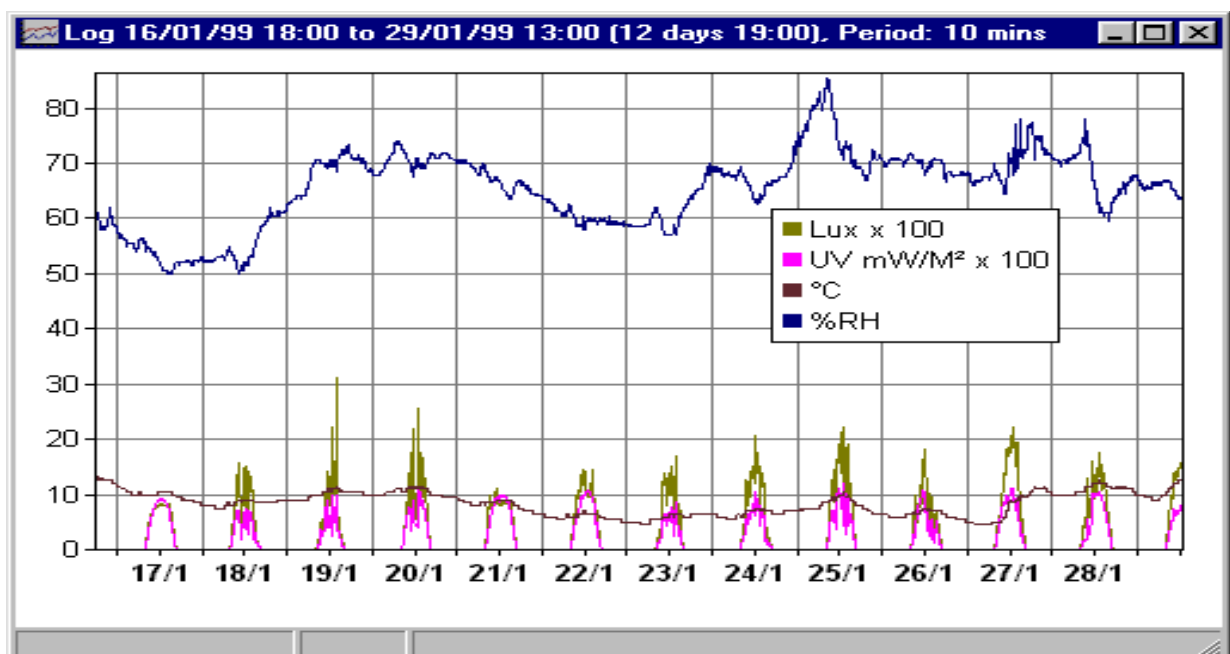
Download data

Press the Download button to transfer data from the logger to the PC:

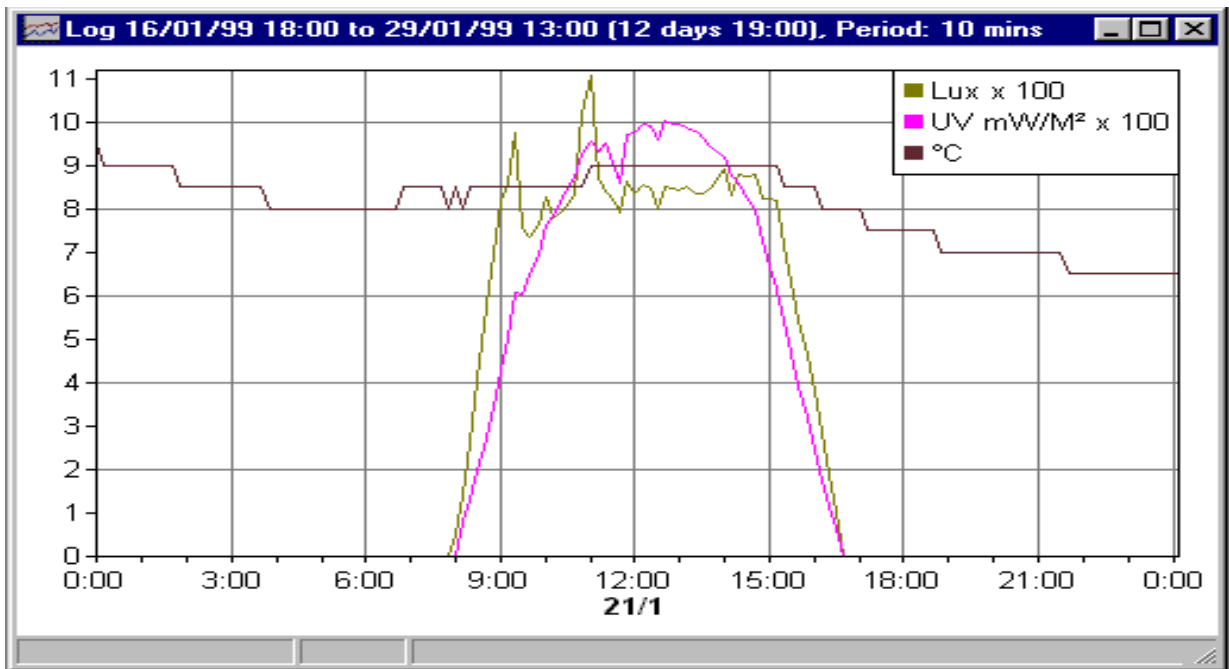


View the Data

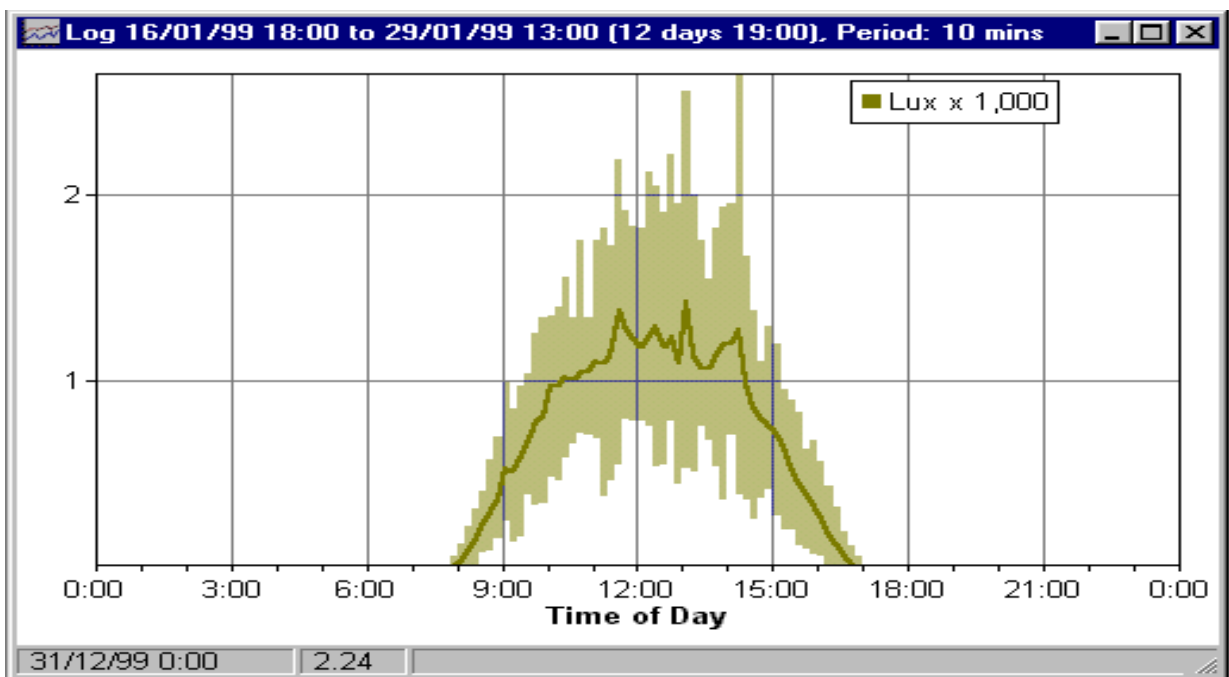
Once the data is stored on the PC it is easily displayed using RView. When a data file is opened a typical view is as follows:



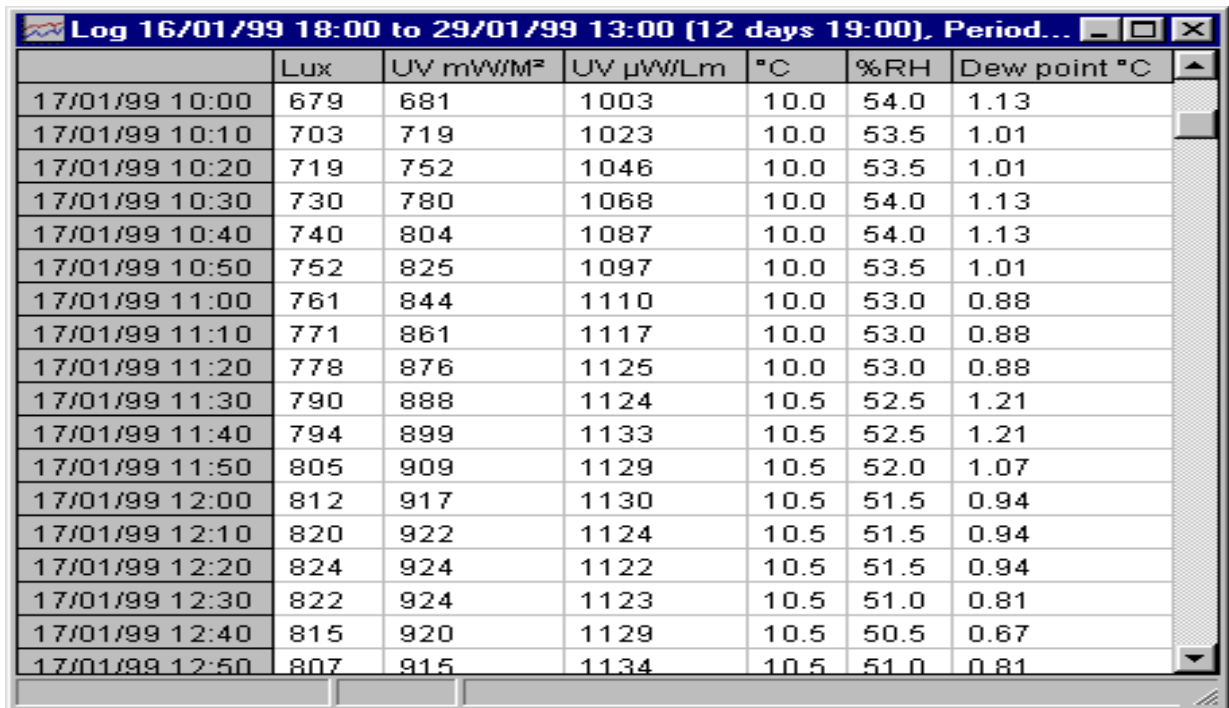
The graph is automatically scaled to show all the data but it is possible to show different units and zoom in on part of the data, for example:



The data can be analysed in various ways, for example the following graph shows the mean lux level and max/min by time of day:



Data can also be shown as raw text:



	Lux	UV mW/M ²	UV µW/Lm	°C	%RH	Dew point °C
17/01/99 10:00	679	681	1003	10.0	54.0	1.13
17/01/99 10:10	703	719	1023	10.0	53.5	1.01
17/01/99 10:20	719	752	1046	10.0	53.5	1.01
17/01/99 10:30	730	780	1068	10.0	54.0	1.13
17/01/99 10:40	740	804	1087	10.0	54.0	1.13
17/01/99 10:50	752	825	1097	10.0	53.5	1.01
17/01/99 11:00	761	844	1110	10.0	53.0	0.88
17/01/99 11:10	771	861	1117	10.0	53.0	0.88
17/01/99 11:20	778	876	1125	10.0	53.0	0.88
17/01/99 11:30	790	888	1124	10.5	52.5	1.21
17/01/99 11:40	794	899	1133	10.5	52.5	1.21
17/01/99 11:50	805	909	1129	10.5	52.0	1.07
17/01/99 12:00	812	917	1130	10.5	51.5	0.94
17/01/99 12:10	820	922	1124	10.5	51.5	0.94
17/01/99 12:20	824	924	1122	10.5	51.5	0.94
17/01/99 12:30	822	924	1123	10.5	51.0	0.81
17/01/99 12:40	815	920	1129	10.5	50.5	0.67
17/01/99 12:50	807	915	1134	10.5	51.0	0.81

The graphs can be printed or copied to the clipboard for use in word processed documents etc.

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