

EasySense Mac OSX

Quick Start Guide

Contents

Compatibility	1
To begin	2
Recording data	2
A New recording	2
Displaying data	4
Data Value boxes	4
Show or Hide Channels	4
Y-Axis display	4
Zoom	4
Title	5
The Table display	5
Changing a sensor's range	5
Analysing captured data	5
Values	6
Interval / Difference	6
Gradient	7
Area	7
Retrieve Remote	8
Edit menu options	8
Copy	8
Select All	8
File menu options	8
Printing	8
EasySense Software Multi-user Site Licence	9

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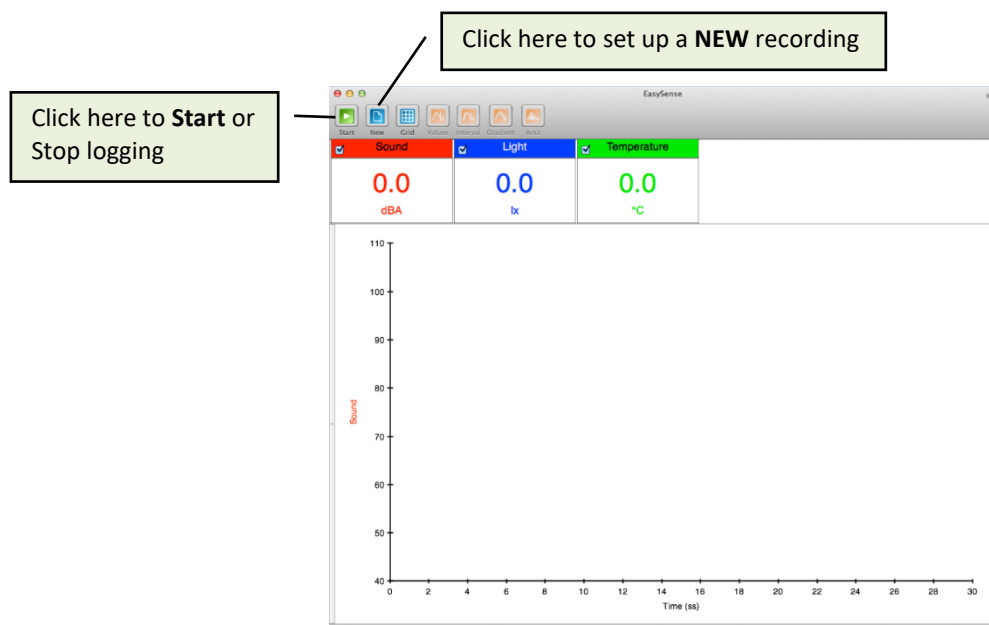
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Compatibility

Computer	Mac OSX V10.7 or later 64 bit processor
Connection	USB
Data Logger	EasySense Vu EasySense Vu+ EasySense VISION EasySense V-Log4 and V-Log8

To begin

- Download the EasySense Mac software from the Mac App Store and install.
- Use the USB lead to connect the data logger to the computer and open the EasySense program.



Recording data



To begin recording, simply click on the **Start** icon.



During logging the Start/**Stop** icon will show a red square. Click on this icon to stop data being recorded before the selected duration has passed.



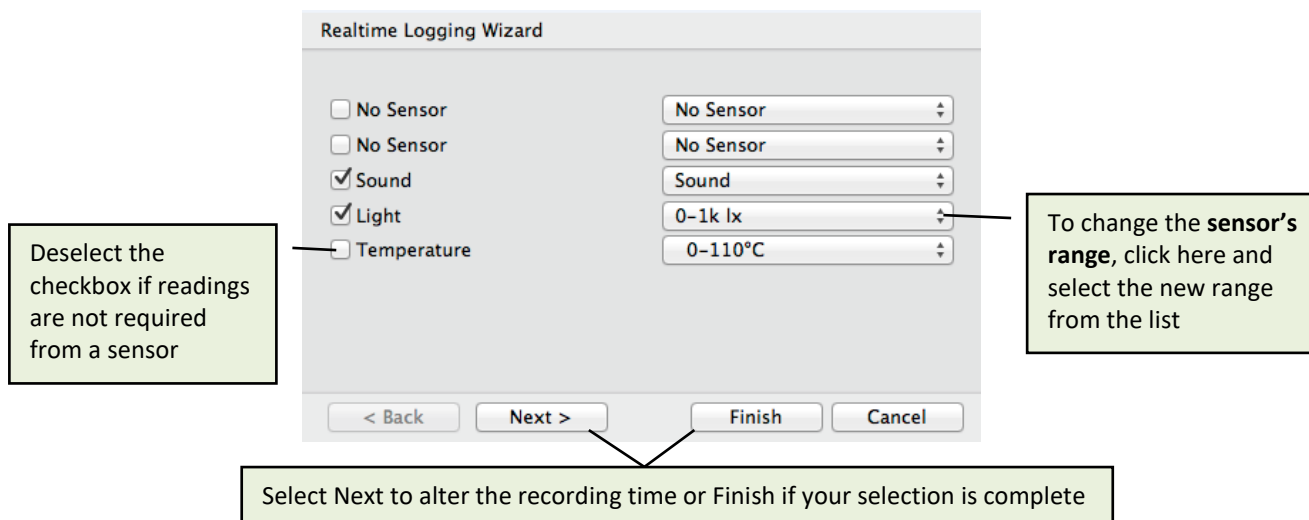
If you want to repeat the last experiment (with all of the settings the same) simply click on the **Start** icon again.



A New recording

To set up a new investigation e.g. to change the duration of a recording in Graph, or to identify a change of sensors or change a sensor's range, select the **New** experiment wizard.

Stage 1: Sensor selection, range and deselect



Stage 2: Recording duration

Realtime Logging Wizard

Select the total recording time

30 seconds

Select the sampling rate

50 / second (20ms)

Number of samples: 1500

< Back Next > Finish Cancel

Select the duration of the experiment

Select the interval between samples being taken

The number of samples that will be taken with this set up (this will alter automatically)

Select Finish if your selection is complete or Next to select a start condition

Stage 3: Select the Start condition as required.

Realtime Logging Wizard

Select start condition

☒ None

☐ Trigger on level

Channel Light

Above 0.0 lx

< Back Next > Finish Cancel

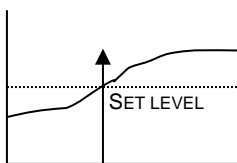
Select 'None' to begin recording as soon as you click on the Start icon

Select 'Trigger on level' to delay the start until a set condition is reached. Select

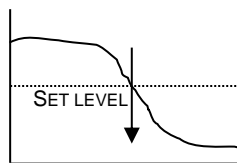
a. The trigger sensor

b. Whether the value should be above, below, rise above or fall below

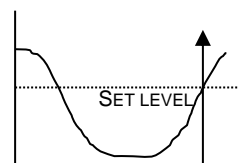
c. Enter the set value



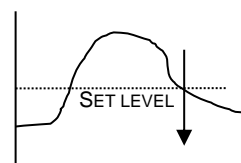
Above - start recording when the value is above the set level.



Below - start recording when the value is below the set level.



Rises above – logging will not start until the value from a sensor rises up above the set level.

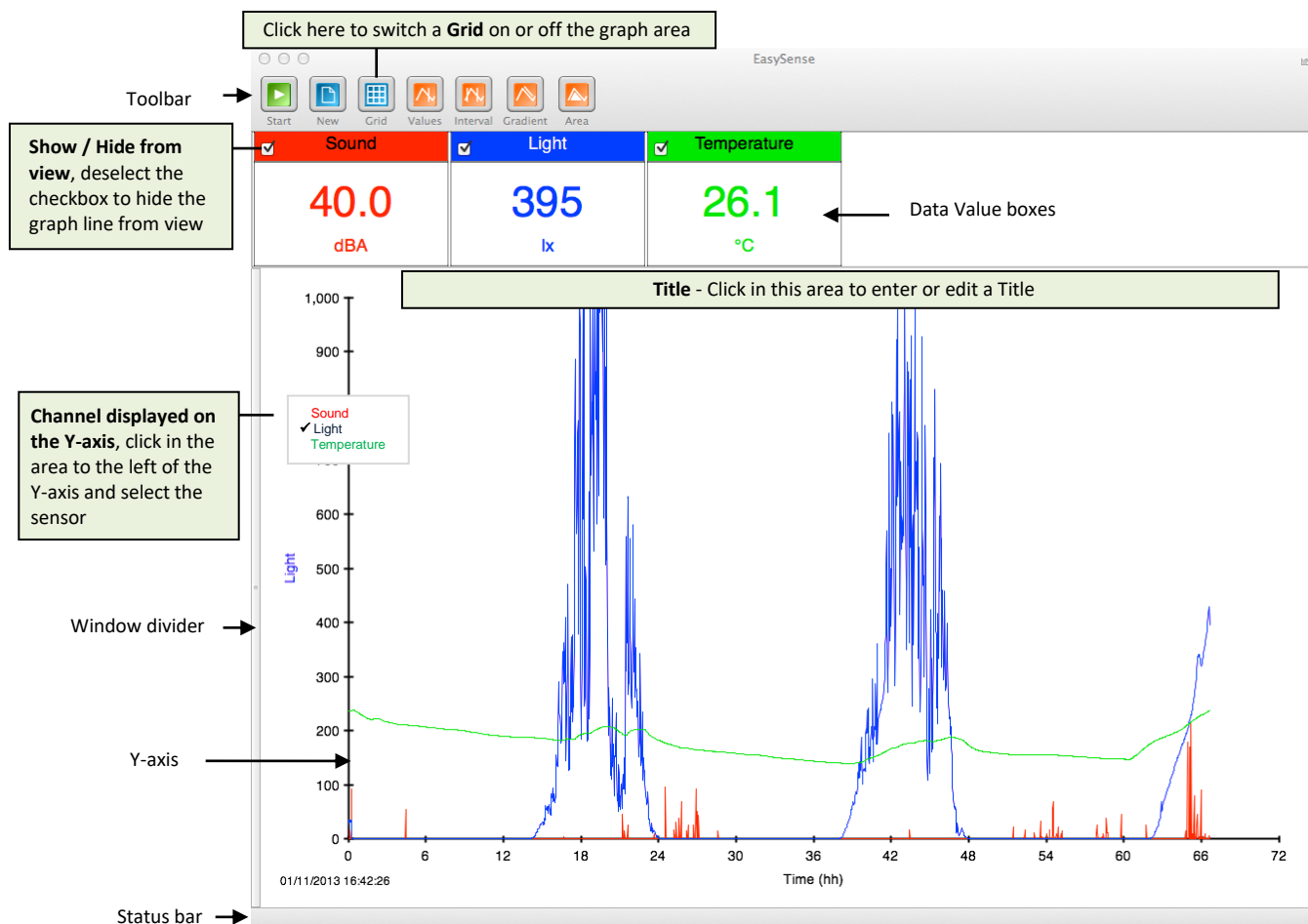


Falls below - logging will not start until the value from a sensor falls below the set level.

- Select **Finish**.
- Click on the **Start** icon . Recording will start when the start condition you have selected is met. The recording will stop when the selected time span has passed.

If trigger on level was selected, a 'Waiting for trigger' message will appear in the status bar (below the graph). When the trigger condition is reached the recording will begin.

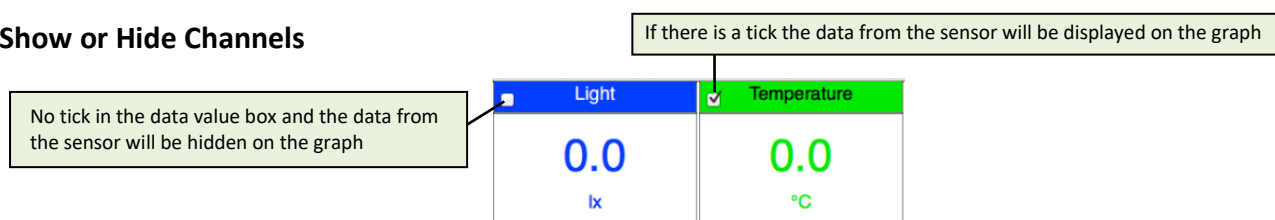
Displaying data



Data Value boxes

The value recorded by a sensor is displayed in a data value box. The colour used in a data value box corresponds to the colour of the plotted line and the y-axis label on the graph.

Show or Hide Channels



Y-Axis display

Click with mouse button in the space to the left of the graph area and select the sensor you want displayed on the Y-axis.

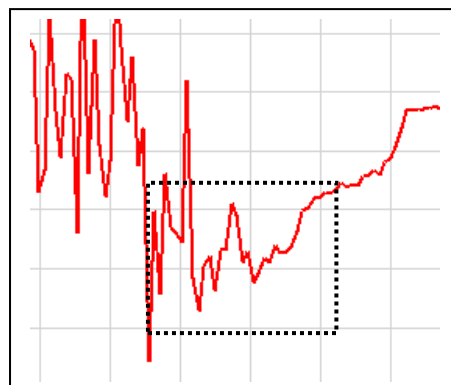
Zoom

An area of the graph can be magnified so that it can be seen in greater detail.

Position the mouse pointer at the top corner of the area to be magnified. Click, hold down and drag the rectangular box over the area to be magnified. Release the mouse button to show the magnified area.

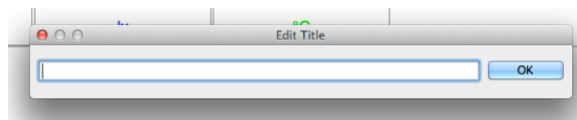
To expand the magnified area further, repeat the above.

Double click the mouse to return to the original graph.



Title

To add or edit a title either click with the mouse in the area above the graph or select **Edit Title** from the Display menu. Type in the text for the title.



The Table display


The graph area automatically fills the window. To expose the table either select **Show Table** from the **Display** menu or drag the window divider to the right i.e. position the mouse pointer over the window divider to the left of the screen, when it becomes a $\leftarrow\rightarrow$ symbol, click, hold down the mouse button, and drag to the right to expose the table area.

The width of the columns in the table can be increased or decreased. Position the mouse pointer in between the columns in the heading, when it becomes a $\leftarrow\rightarrow$ symbol, click, hold down and drag to adjust the width.

Time (ss:ms)	Sound (dBA)	Light (lx)

Changing a sensor's range

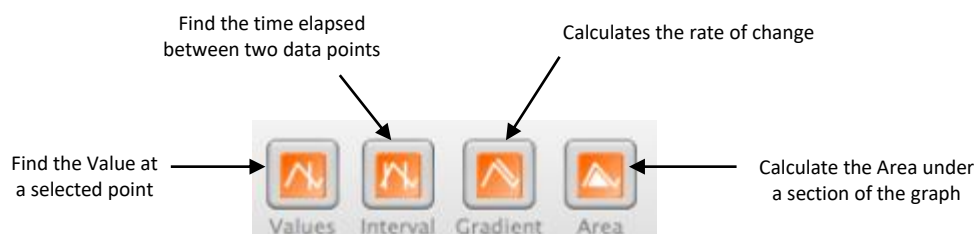
Some *Smart Q* sensors have multiple ranges e.g. a Light Level Sensor. The way to change a sensor's range to one more suitable for an experiment is:

- Select the New recording wizard icon. 
- Click on the sensor's name, it will be listed using its current range.
- Select the required range from the list.
- Select Finish to exit the wizard.



Analysing captured data

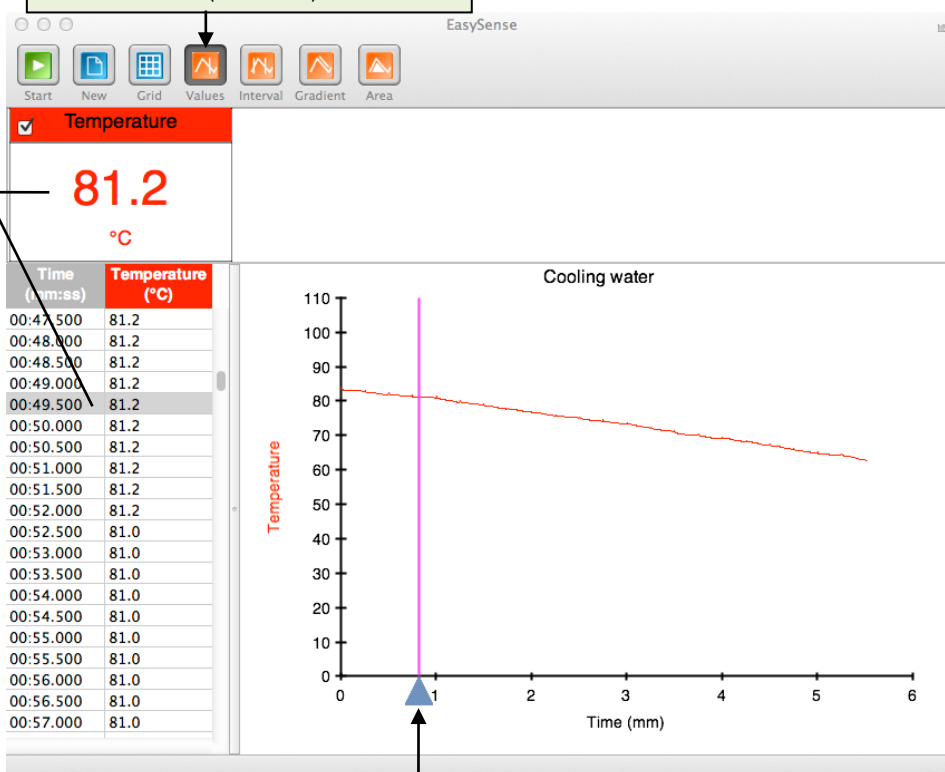
There are a number of tools built into the graph window to allow the analysis of captured data. Select the tool either using the icons on the toolbar or from the Analysis drop down menu.





Values

Click here to **select** (or **deselect**) the Values icon



The Value at this marker point is shown here and highlighted in the table

Click and drag the marker to select a data point



Interval / Difference

Click here to **select** (or **deselect**) the Interval icon



The **Difference** between the data at these two

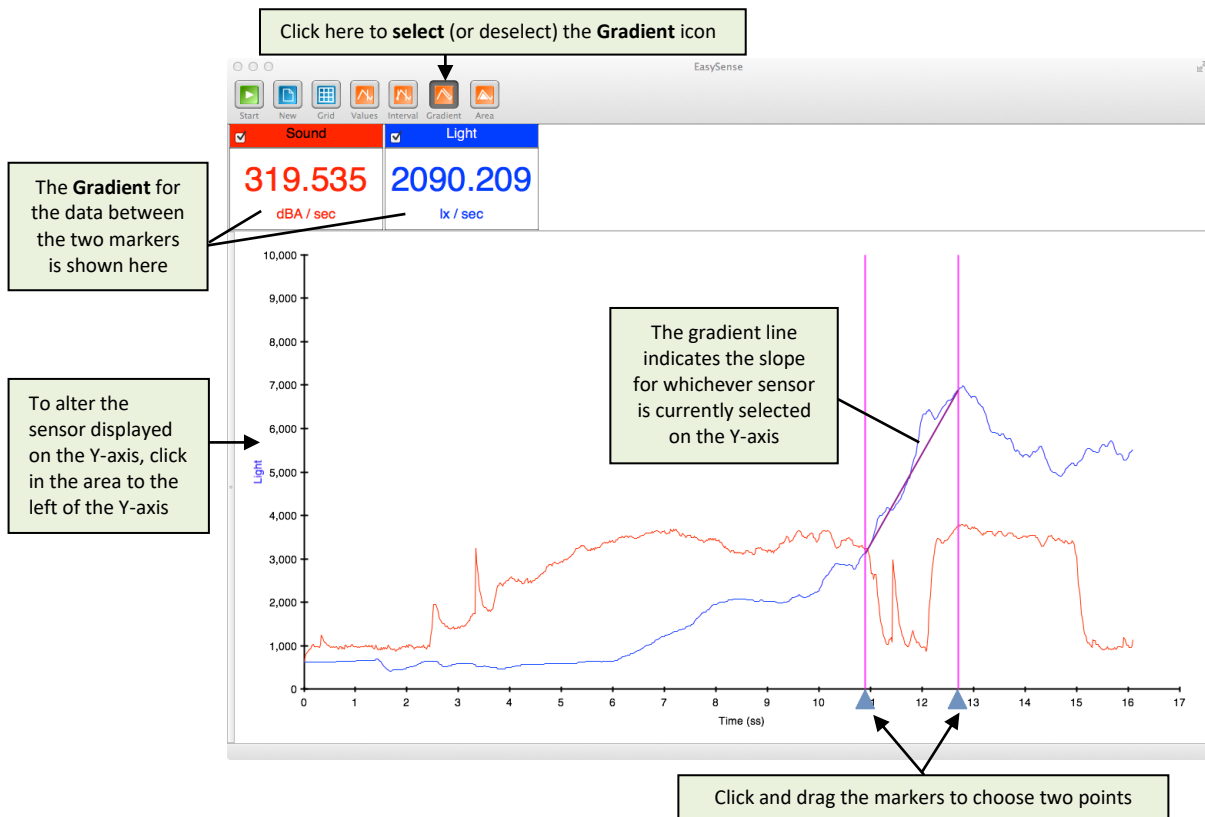
The time **Interval** between the two points is shown next to the marker

Click and drag the 2 markers to choose the points or select from the table



Gradient

This feature calculates the rate of change of data. When the graph line is horizontal the gradient is zero and values are not changing. A positive gradient shows that values are increasing – the larger the gradient, the faster the change.



Area

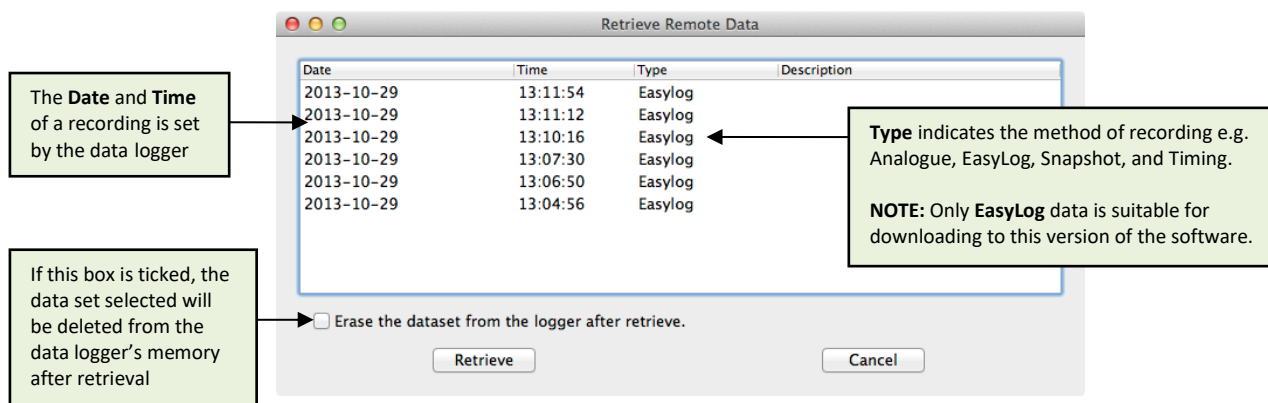


Retrieve Remote

Retrieved data can be used in the same way as real-time data i.e. it can be analysed, saved and printed.

To retrieve data stored on the Vu data logger:

- Select **Retrieve Remote** from the **File** menu. A dialog box will open showing a list of data sets.
- Select the required set of data and click on the **Retrieve** button.



Edit menu options


Copy

Used to copy the current Table onto the clipboard from where it can be pasted into spreadsheet, word processor or desktop publishing applications.

Select All

Use to select all the data in the Table.

File menu options

Item	Description
New 	Use to set up a new recording e.g. opens the Logging wizard.
Open	Use to load previously saved data files. Locate the correct EasySense file (.SSL) and click on Open.
Save As	A dialogue box will open to allow the captured data to be saved as an EasySense file using a filename and destination of your choice. Saved as .SSL type file.
Save	<p>Provided the file has been saved previously, the data will be automatically saved, retaining the name given the first time it was saved.</p> <p>If you Save while only a selected part of the data is being used then only the selected data will be saved.</p>

Printing

Page Set-up	To set up the print output to suit your printer. Use to select whether to print in landscape or portrait format.
Print	To print out a copy of the current graph area

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