



DL150 Software Help Manual



Software Information

The DL150 USB software is a program for downloading stored data from the DL150 when it is connected to a PC or laptop computer. The data may be displayed graphically or as a data list in Excel or similar programs. The major functions are all listed in the main window.

The maximum storage capability is 100,000 data points.

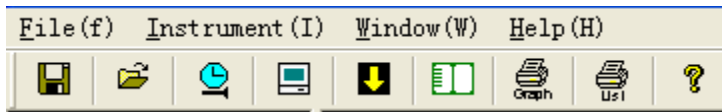
System Software Required:

Windows 7, Windows 8.1 and Windows 10

Minimum Hardware Required:

PC with Pentium 90MHz or higher 32 MB RAM;
At least 7 MB of hard disk space available to install Datalogger USB software.
Recommended display resolution 1024X768 with High Color(16 bit).

Main Menu



- **File**

Save



Save the recorded data to the disk.

Open



Open a saved file.

Print Setup

Change the printer and printing options.

Print Preview

Print preview the graph or the list.

Print



Print the graph or the list.

- **Instrument**

Correct Time



Correct the DATA LOGGER TIME.

Datalogger Setup



Setup the DATA LOGGER - Recording Mode, Normal/Peak, sample rate, Auto Power off, Logging method and Transient CAP Detection Level.

Download Data



Download data from the DATALOGGER.

Import Data to List



Previous Measurement Import the previous measurement data.

- **Window**

Instrument

Show or hide the instrument window.

Info Dialog

Show or hide the info dialog window.

- **Help**

About

Show the version information of the Software.


Help Topics



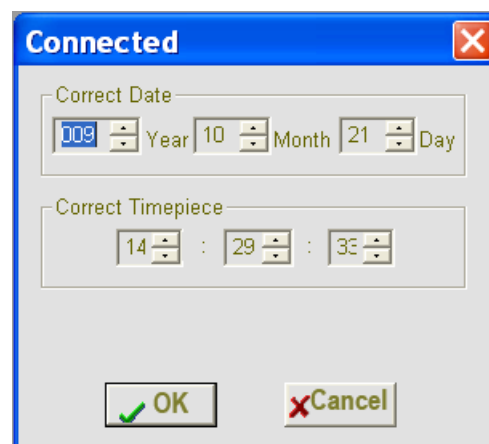
Open the software help document.

Operation


Correct Time

Click the icon  to open the Date and Time Dialog:

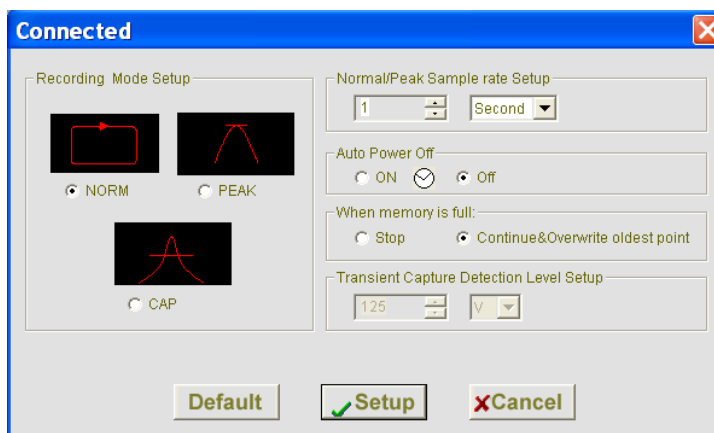
The current PC Date and Time are shown.
Click the “OK” button to set the DATA LOGGER Date and Time to the PC date and Time.



Datalogger Setup

Click on the icon  on the menu bar. The Setup window will appear.

- LOGGER recording mode can be set as NORM (normal RMS values), PEAK (capture Peak values) or CAP (capture Transients).
- Normal/Peak Sample rate Setup
This sets the interval for how often to record data to the Datalogger memory. This function is available at NORM (RMS) and PEAK mode.
- Auto Power OFF. Select ON or OFF
- When Memory is full
Instruct the datalogger to either stop when the memory is full or to continue logging by overwriting the oldest data.
- Transient Capture Detection Level Setup.
Enter the unit (A or V) and desired level in the boxes. The datalogger will record only when this level is exceeded. This function is only available at CAP mode.



Press the DEFAULT button to set the Logger to factory default condition.

Press the CANCEL button to abort the setup.


Press the Setup button to save your setup selections and Erase all data from memory.

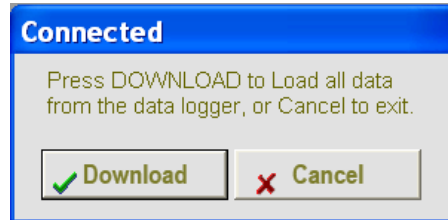
IMPORTANT: You cannot Start and Stop and Start the meter again.

If you press Start and then STOP, you MUST connect the meter to the PC and run the software setup again to setup the meter for a new recording session. This meter only makes one record operation at a time. You cannot append recordings.

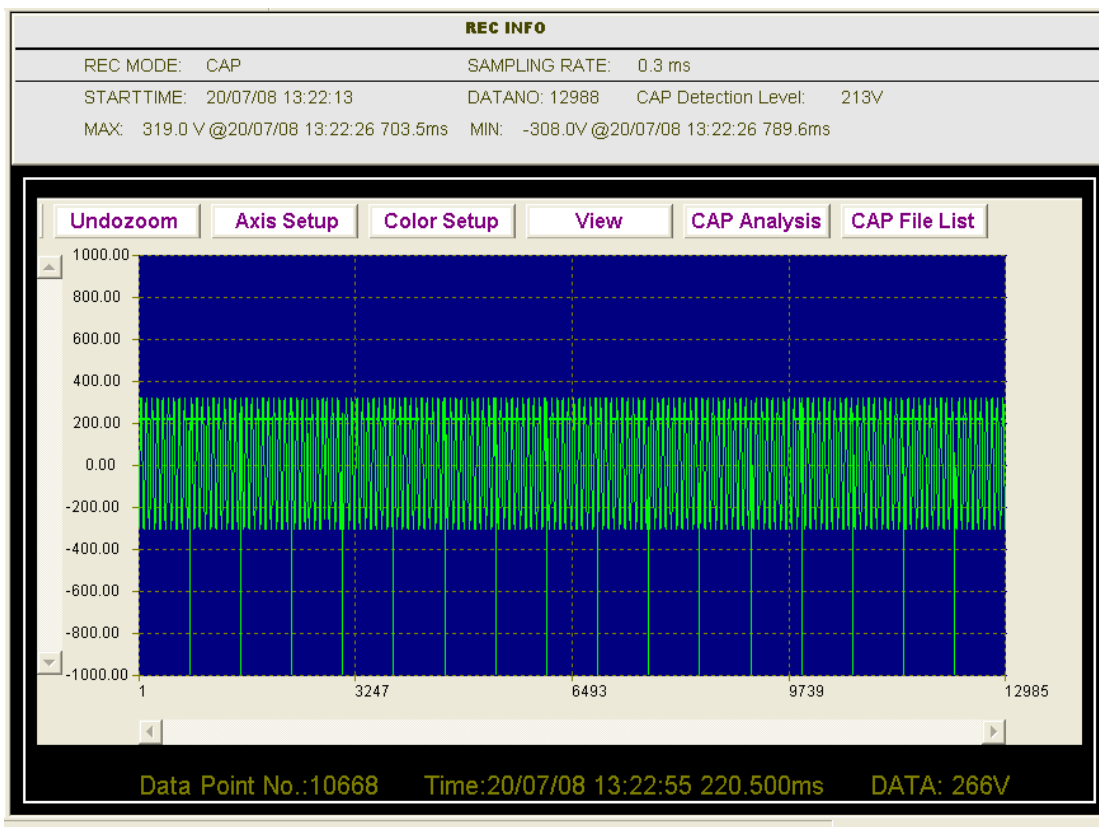
Datalogger Download

To transfer the readings stored in the Logger to the PC:


1. Connect the DATA LOGGER to the same USB port used when the DATALOGGER was initialized.
2. Open the Datalogger software program if it is not still running
3. Click the Download icon .
4. The Window shown below will appear. Press DOWNLOAD to begin transferring readings.



The readings are viewed in graph window



The top field shows detailed information of the readings (REC MODE, SAMPLING RATE, START TIME, DATANO, CAP Detection Level, Record Max data and Min data).

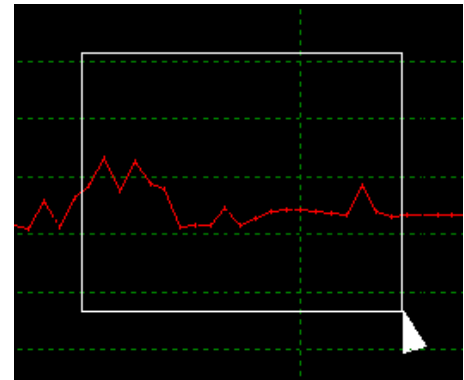
Click the  icon to save the data to a file.

Data Graph Menu



Zoom in:

1. Press the left mouse button and drag a rectangle around the area to be expanded.
2. Release the mouse button.
3. Use the horizontal scrollbar to scroll through all the data.
4. Use the left vertical scrollbar to scroll through the data point.

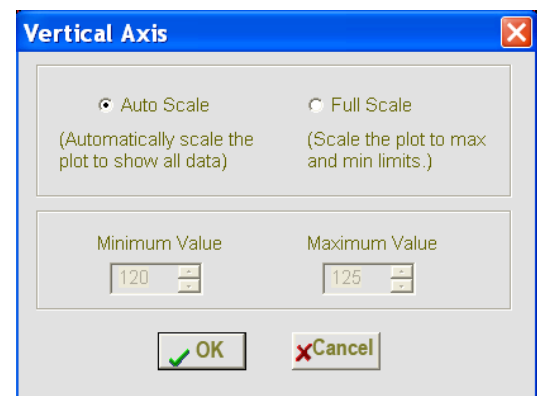


Zoom out: Zoom out to full view by clicking

Undozoom

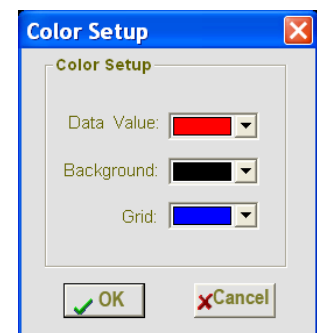
Vertical Axis:

1. Select Auto Scale or Full Scale.
2. For Full Scale, enter the Minimum and Maximum values
3. Click OK



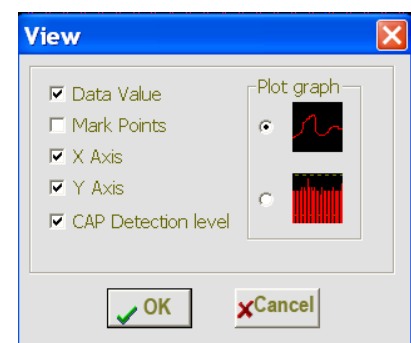
Color Setup:

Setup the data value color, background color and grid color.



View:

1. Select items to display including, Data plot, Data points marked, Axis and Cap set level
2. Plot as a line or bar graph

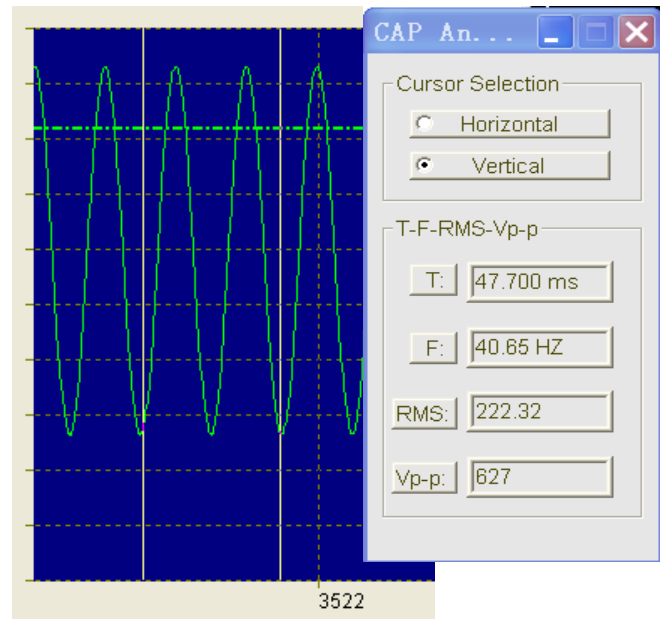
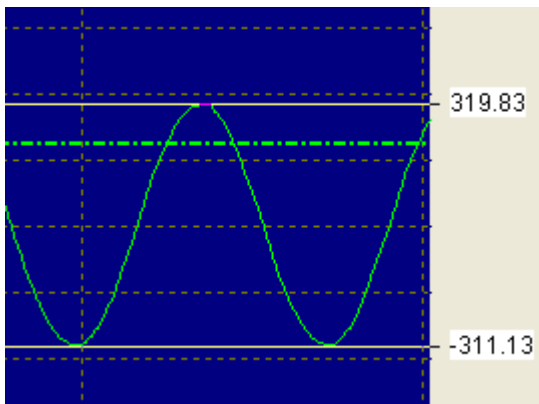


CAP Analysis:

Analyze the time, frequency, RMS value and the Vp-p (peak to peak) of the wave.

This function is only available in the CAP mode.

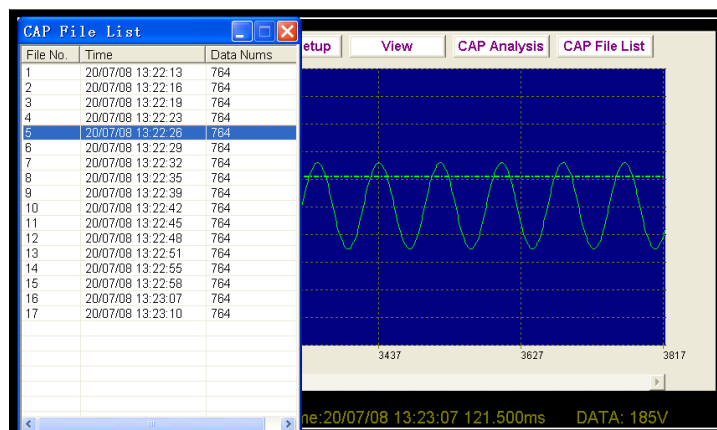
1. Select the Vertical cursor and click the right mouse button on the graph, the dialog will show the T, F, RMS and the Vp-p of this file wave graph.
2. Select the Horizontal cursor and click the right mouse button on the graph, the panel will show the specific data value at the cursor.




Cap File List:

Get the file list of the wave graph.

Click any item in the list to get the wave graph of this file.





Import data to list

Click the list icon  to display data as a list with time stamps.

No.	Time	Data Value
24	10/22/09 10:55:27 5.612ms	-31 V
25	10/22/09 10:55:27 5.856ms	-17 V
26	10/22/09 10:55:27 6.100ms	-1 V
27	10/22/09 10:55:27 6.344ms	15 V
28	10/22/09 10:55:27 6.588ms	33 V
29	10/22/09 10:55:27 6.832ms	49 V
30	10/22/09 10:55:27 7.076ms	63 V
31	10/22/09 10:55:27 7.320ms	81 V
32	10/22/09 10:55:27 7.564ms	93 V
33	10/22/09 10:55:27 7.808ms	107 V
34	10/22/09 10:55:27 8.052ms	119 V
35	10/22/09 10:55:27 8.296ms	127 V
36	10/22/09 10:55:27 8.540ms	139 V
37	10/22/09 10:55:27 8.784ms	143 V
38	10/22/09 10:55:27 9.028ms	153 V
39	10/22/09 10:55:27 9.272ms	153 V
40	10/22/09 10:55:27 9.516ms	161 V
41	10/22/09 10:55:27 9.760ms	161 V
42	10/22/09 10:55:27 10.004ms	170 V
43	10/22/09 10:55:27 10.248ms	171 V
44	10/22/09 10:55:27 10.492ms	171 V
45	10/22/09 10:55:27 10.736ms	171 V
46	10/22/09 10:55:27 10.980ms	171 V
47	10/22/09 10:55:27 11.224ms	165 V
48	10/22/09 10:55:27 11.468ms	153 V
49	10/22/09 10:55:27 11.712ms	145 V
50	10/22/09 10:55:27 11.956ms	138 V

File save and open

1. Click the  icon to open the file save dialog box.
3. Name the file and save it with the default “.avdata” extension. The file will be saved with this extension to be reopened in the Datalogger software program and also as an “.xls”file to be opened in Excel or other word processing program.
4. Click on the  icon to open and view an existing data file in the data graph window. When prompted, select a “. avdata” file saved earlier.



Print Graph and Data List

Click the icon  to print the graph.

Click the icon  to import data to a list, and then click  to print the list.