

Eagle Eye™

LaserBee PC Data Logging Interface Software

User Instructions/Guide

We have finalized our newly designed Windows based LaserBee PC Data Logging Interface software and added it to our LPM arsenal. It is trademark named **Eagle Eye™**.

Here is a quick Users Guide to show all it's inherent added features.....

Once the Software has been installed as explained in the Software installation instructions on the supplied CD, start the Eagle Eye™ Interface.



Real Time Display...

On the top center of the Eagle Eye™ Software Main screen there is a Large 4 digit 7 Seg display capable of readings up to 9.999 Watts.

This display shows the actual data that is sent from your LaserBee LPM and is identically displayed on the LCD if your LaserBee LPM has one.

The digital display is RED when the Eagle Eye™ software is in Stopped/Standby mode and changes to GREEN when data is being accepted by the Eagle Eye™ software in Run mode.

File Saving...

On the bottom left of the Eagle Eye™ software screen there is a window that allows you to save your Data Logging session to a filename you choose.

That same Filename will be displayed on any Chart that you choose to print out or save as an Image later.

Clicking the [Start] button will initialize saving the data to the file once the [Run] button is clicked.

Start Logging...

On the bottom right of the Eagle Eye™ screen there is a [Run] button... click this button to grab the data being sent from your LaserBee.

It can be stopped and put on hold at any time by clicking the [Stop] button. You can resume at any time by clicking the [Run] button again.

If you have ended your test session, click the [Stop] button and then the [Reset] button to get ready for a new Laser power test.

Main Graph Window...

The large Graph window shows the actual graph that the received Data is producing.

The window needs no special Max-Min setup...

As the data comes in the screen is Auto Sizing making it more versatile and easier to use than any other Hobbyists Data Logging interface to date.

At the top of the Graph window the milliwatts (mW) read are in Green the Average (Avg) of the Graph is in Yellow and the Maximum (Max) of the Graph is in Red.

Right clicking Main Graph Window



Zoom Feature...

Lets say you recorded a session that lasted 180 seconds... only the last 45 seconds is show on the default graph screen..

Once you have stopped gathering data on that test you can Right Click on the Graph screen for more Features/Options...

By clicking on [Zoom All] the entire 180 seconds session will be displayed in the Graph window. Click on [Zoom All] again and the screen goes snaps back to where it was..

Detailed Zoom feature...

By left clicking/holding and opening a small window around any part of the Graphed line no matter how small or large you can Zoom In to see the finest detail of any part of the Graph. You can get back to the original Graph size by clicking [Undo All Zoom/Pan] or [Undo Last Zoom]. Yes you can even Zoom a Zoomed graph.

Point Value Feature...

By right clicking the Graph window and clicking on [Show Point Values] placing your mouse cursor on any part of the graphed line will show the Laser Power at that specific point on the graph. Clicking on [Show Point Values] will disable the feature.

Main Screen Drop Down Menu



[File]...

The choices are self explanatory.

[Load] to load an existing file created by the Eagle Eye™ software.

[Save] to save a file created by the Eagle Eye™ software.

[Exit] to exit and close the Eagle Eye™ software.



[Options]...

[Channel]

As of this writing only Channel 1 is enabled. Channel 2 is for future use. You must stay on Channel 1 (at this time) for the Eagle Eye™ to record your Data.

[Com Port]

After you have checked your computer's Hardware Manager to see which Com Port it is using, you click on it here to open communication with your LaserBee LPM.

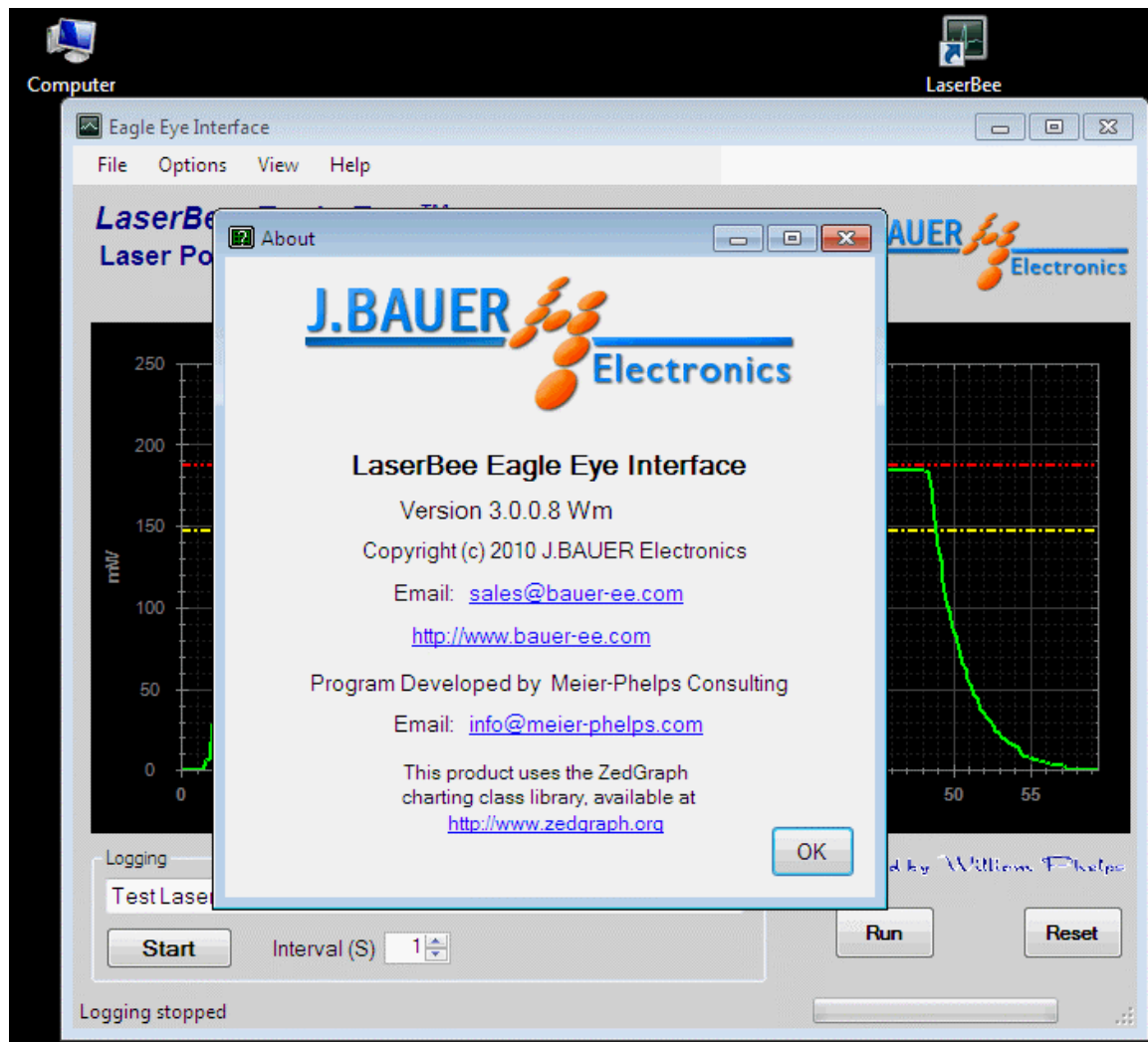
[Debug]

Clicking on [Debug] opens a vertical slider bar on the right side of the Eagle Eye™ software screen as shown in the first picture. Clicking on [Run] and using your mouse to move the slider you can test the Graph without actually recording any data or having your LaserBee LPM connected.

[View]...

[Chart]

Clicking on [Chart] opens a Chart screen with it's own Menus Features explained below.



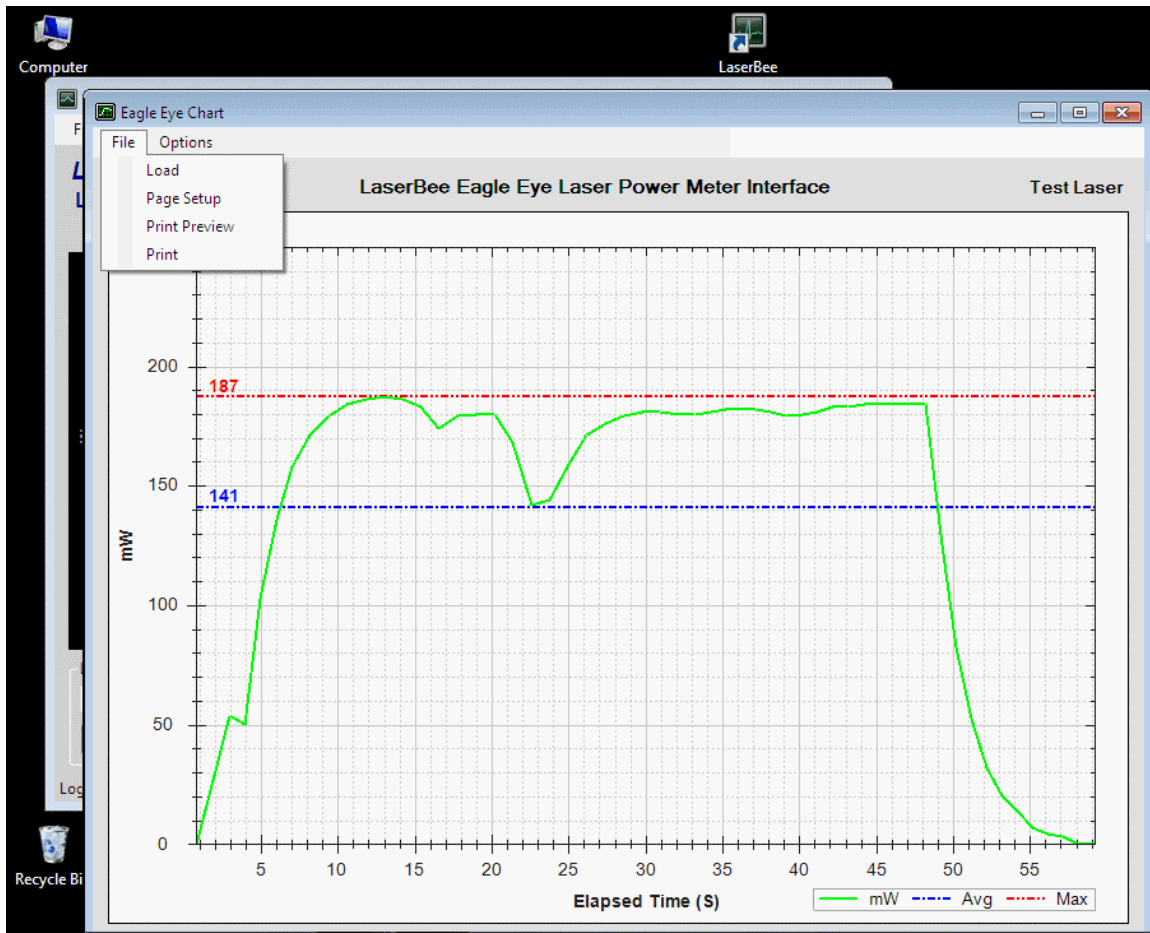
[Help]...

[About]

Self explanatory. Our contact information and Eagle Eye™ Version numbers are displayed here.

Chart Features

From the Eagle Eye™ Main Screen drop down menu Help\Chart you get to the Chart screen.



On the top right of the Chart the File Name that you specified when saving/logging a Laser power session is displayed here.

With a Logging session file loaded... you will see a dashed Red line showing the Max reading and a dashed Blue line shows the average of that loaded file.

Chart Screen Drop Down Menu

[File]...

[Load]

To load an existing logged file created by the Eagle Eye™ software.

[Page Setup]

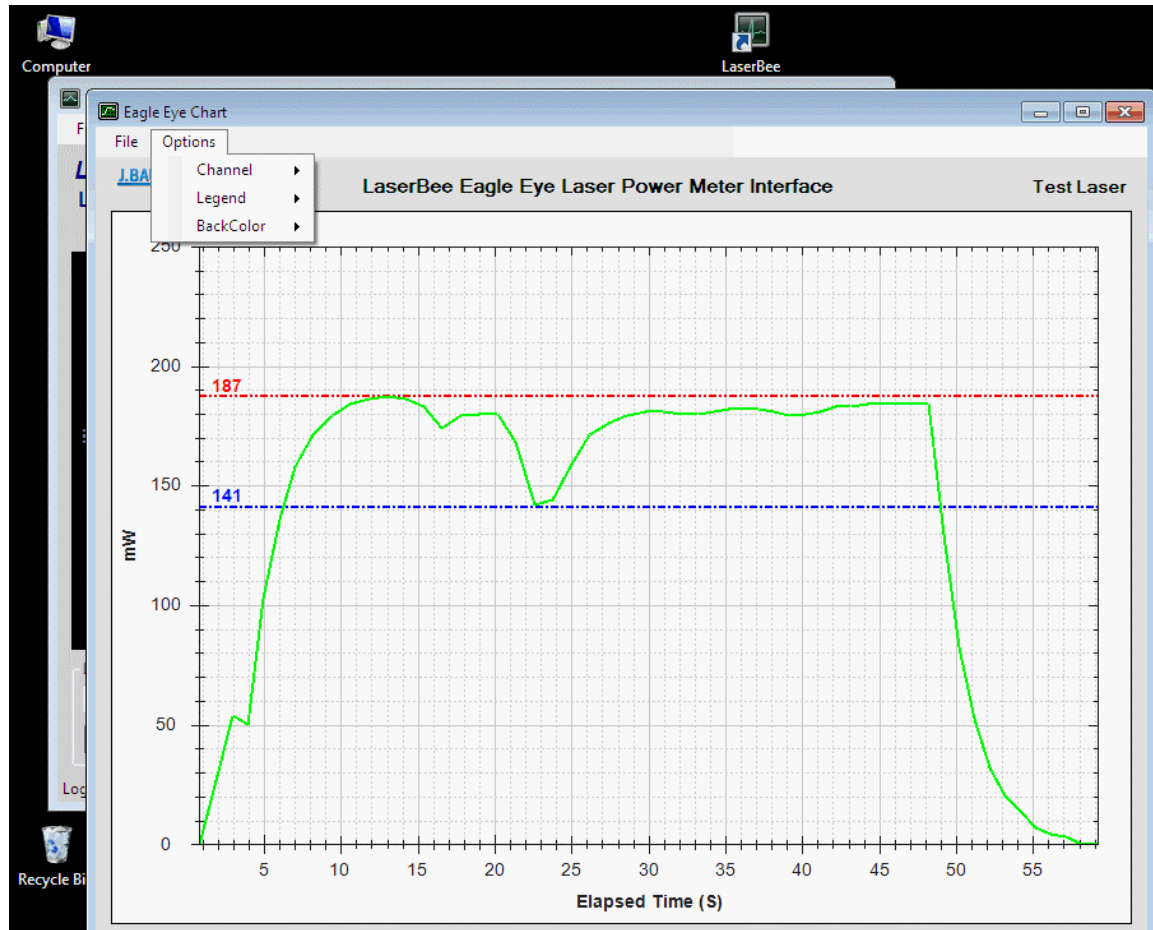
You can setup your page before printing out a pre-recorded Power Graph.

[Print Preview]

You can see a preview of the pre-recorded Power Graph before printing it out.

[Print]

Allows you to print out a copy of the pre-recorded Power Graph by clicking here.



[Options]...

[Channel]

As of this writing only Channel 1 is enabled. Channel 2 is for future use. You must stay on Channel 1 (at this time) for the Eagle Eye to show your Data correctly.

[Legend]

Allows you to move the 3 Color Legend found at the bottom right side of the Chart screen to one of four locations on the chart. By clicking on Legend you can even remove it completely from the chart.

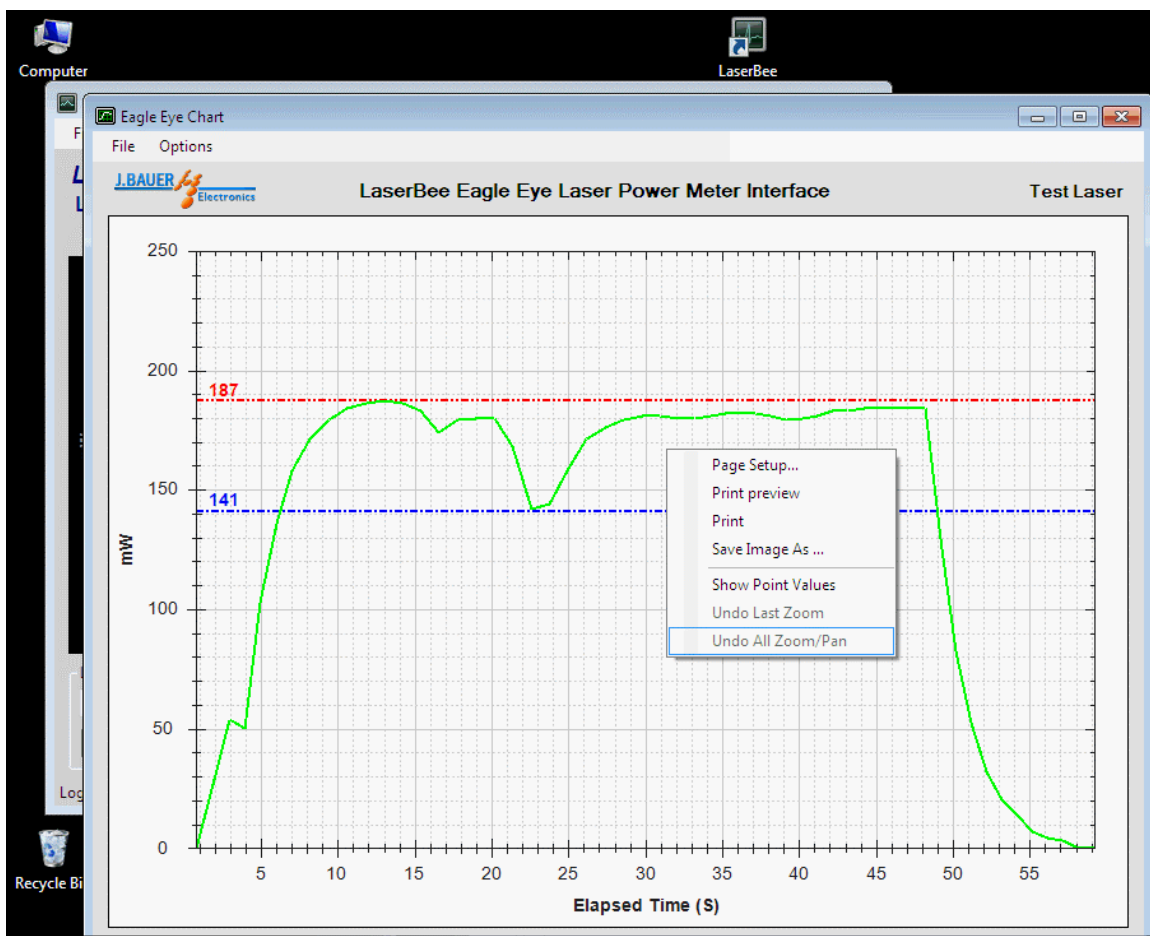
[Back Color]

Allows you to change the background color of the Chart window from White to Black.

Detailed Zoom feature...

By left clicking/holding and opening a small window around any part of the Graphed line no matter how small or large.. you can Zoom In to see the finest detail of any part of the Graph. You can get back to the original Graph size by clicking [Undo All Zoom/Pan] or [Undo Last Zoom].

Right clicking Chart Graph Window



[Page Setup]

[Print Preview]

[Print]

These are the same as explained above but accessible from a right click on the Chart window.

[Save Image As]

This feature allows you to save the chart as an Image. This simplifies sending a chart to anyone over the Web.



[Show Point Values]

By clicking on [Show Point Values] and placing your mouse cursor on any part of the graphed line will show the Laser Power at that specific point on the graph. Clicking on [Show Point Values] again will disable the feature.

For any questions we can be contacted at:- info@bauer-ee.com

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