

# PalmOS Zlog Users Manual

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[www.GreatLakesAP.com/zlog](http://www.GreatLakesAP.com/zlog)

## Overview:

PalmOS Zlog is an application for PalmOS handhelds to program, read, and store altitude data from a Hexpert Systems Zlog Recording Altimeter.

PalmOS Zlog provides a complete portable solution to interface to your Zlog. It provides complete capability for configuration and data download/review.

With PalmOS Zlog, you can spend the entire day at the field and save all your Zlog data to your PalmOS device. You can even take a roadtrip with your plane and save all your Zlog data to PalmOS device.

If your PalmOS device has an external memory card interface, then your data can be saved to the card in .csv format. This .csv can then be imported to the Zlog desktop application that came with your Zlog.

If your PalmOS device does not have an external memory card interface, then your data can be saved to an internal Palm database, and hotsync'd to your desktop. A ZlogParser.exe application is provided to extract your Zlog data from the Palm Database on the desktop into .csv files. These .csv files are the same format as the ones save to external memory cards, and so they can also be imported to the Zlog desktop application that came with your Zlog.

## Installation

To install PalmOS Zlog, double click the zlog.prc file which will launch the Palm install tool.

During the installation process, you will be asked which Palm user to install Zlog to. Once this is done, Zlog will be installed the next time you HotSync.

If your PalmOS device does not have an external memory card, then the last step is to copy ZlogParser.exe to your Palm Backup directory. For more information on the location of the Palm Backup Directory, please see the ZlogParser section at the end of this manual.

Your installation should now be complete and you can begin using PalmOS Zlog as described in the following pages.

To connect your Palm to your Zlog, you will need one of the following setups.

- 1) Palm modem cable connected from Palm serial port to Zlog serial cable. You can purchase one here: <http://www.syncablesolutions.com/#MODEM> . Order the Modem adaptor cable, and specify the type of Palm connector you have.
- 2) Palm serial cable connected from Palm serial port and then to Null modem and gender changer adaptor, and finally Zlog serial cable.

## Requirements:

To use PalmOS Zlog you must have the following:

- Palm Powered Device capable of serial communication
- Palm Modem cable, or HotSync cradle or cable, with null modem adapter and gender changer.
- Note: If you have a PalmOne T3 device, then you will require serialfix.prc which is available to [www.palmgear.com](http://www.palmgear.com) . The T3 has a bug in the serial interface that PalmSource and PalmOne have chosen not to address yet. Third party developers have taken it into their own hands and provided a fix for this problem, and this is where serialfix.prc came from.

# Getting Started



Zlog application

## Available Views

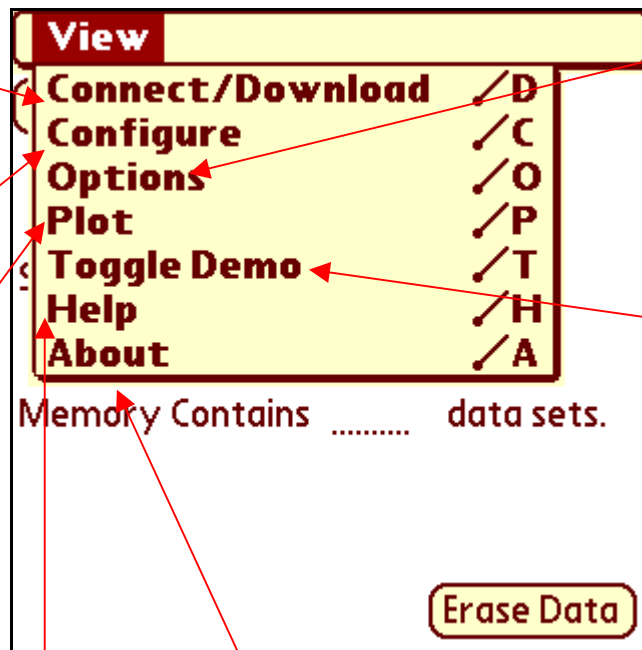
**Connect View-**  
Allows you to connect to the Zlog and get the number of datasets and download the data.

**Configure View-**  
Allows you to configure your Zlog's settings like sample rate and Units setting.

**Plot View-**  
Allows you to get to the chart of your altitude data. You can also access this menu after you download the data from the log view.

**Help View-**  
Provides bried overview and instruction on how to use this application.

**About View-**  
This view provides version and build information along with a button that allows you to register the PalmOS Zlog application.



**Options View-**  
Allows you to program the Auto start, stop, and zeroing of the Zlog.

**Toggle Demo View-** Toggles Demo mode on and off so you can test out this application without having to connect to a Zlog.

## Registration

Zlog is Shareware. It is fully functional for 2 weeks. After that time you are required to register the application by sending payment via paypal, or remove the application from your Palm.

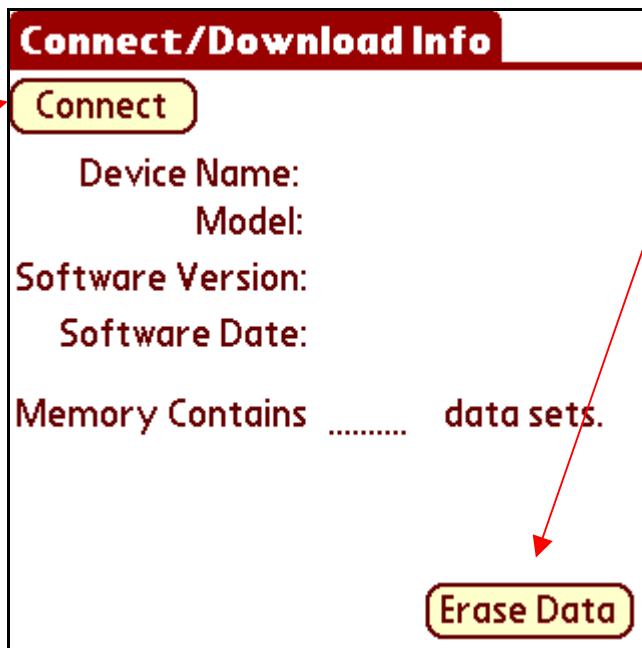
To enter your registration code, tap the Menu key.



After tapping the menu key, choose About from the View pull-down. A menu will be displayed allowing you to enter your code after you tap the register button.

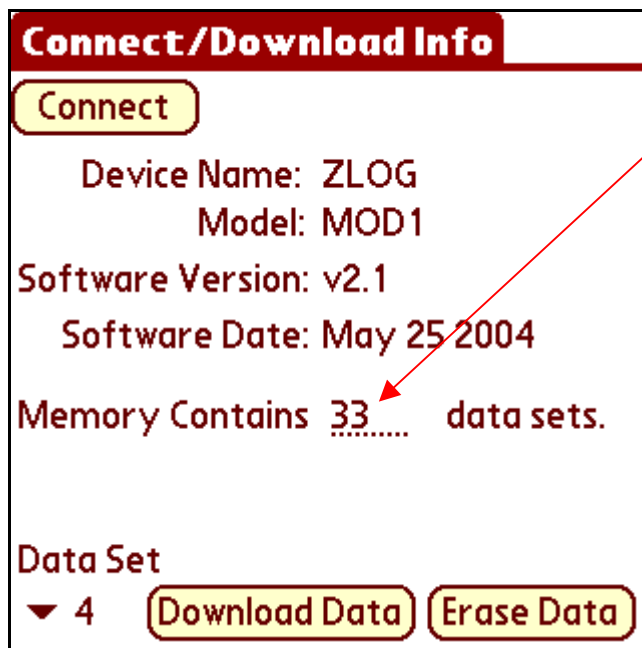
## Connect View

**Connect-** Tap the Connect button and you should see a menu similar to the following.



**Erase Data-** Tapping this button will erase all dataset's from the Zlog.

Choose a dataset from the list using the popup trigger, then tap the Download Data button.



The zlog will show you how many datasets are on the device.

After the data is downloaded, you will be able to view the time and altitude data. Triggers will be in RED on color devices, and Bolder on non color devices. Use the page up / page down keys to view all the data, or use the onscreen scrollbar.

Log Data		
Sample	Time	Altitude
0	0.0	0
1	1.0	0
2	2.0	1
3	3.0	1
4	4.0	1
5	5.0	1
6	6.0	1
7	7.0	1

Min: -1      Photo Memo      Log Memo

Max: 938      Save Log

Tap the Plot button to graphically represent the data.

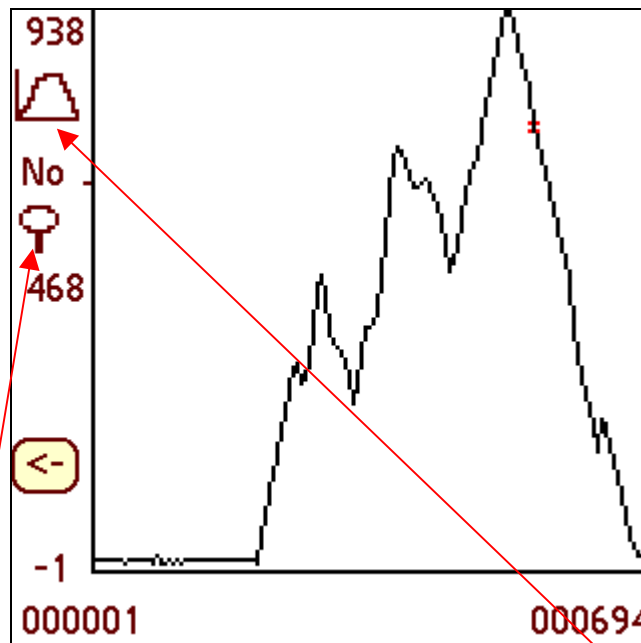
Tap the Photo Memo button and you will get a memo in the Palm Memo app, with all the AP trigger data.

Tap the log memo button and all the DataSets data will be exported to the MemoPad application.

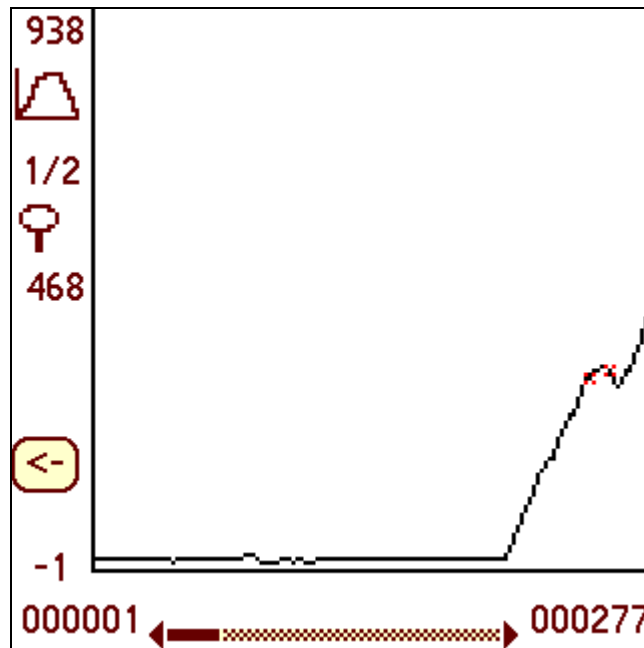
Tap the Save Log button and you can then save all the Data to your SD card or internal Palm database.

After tapping the Plot button you will see a graph of your data. It will be in "Fit" mode meaning it is zoomed out and all the data is "Fit" onto the screen at once.

Tap anywhere on the graph to zoom to that section of the data. Once it is zoomed in, then 1 pixel on the screen will be equal to 1 sample.

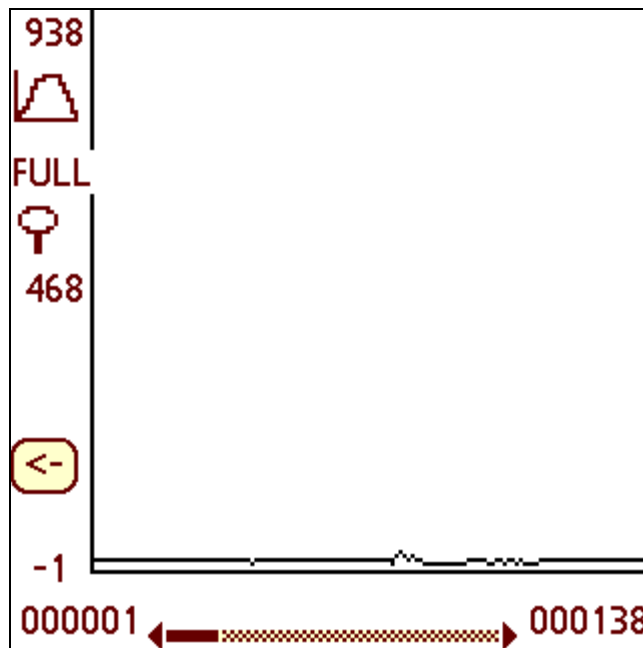


The magnifying glass icon allows you to scroll through the zoom levels. You can scroll through No, 1/2, and Full zoom. The graph icon allow you to calculate a custom ascent/descent rate. It is only active in Full zoom mode. Tap it and it will allow you to pick 2 points to calculate your rate over.



When in the FULL zoomed mode, tapping on the chart and sliding the stylus around will display the (time:Altitude), and on the next line (climbrate );

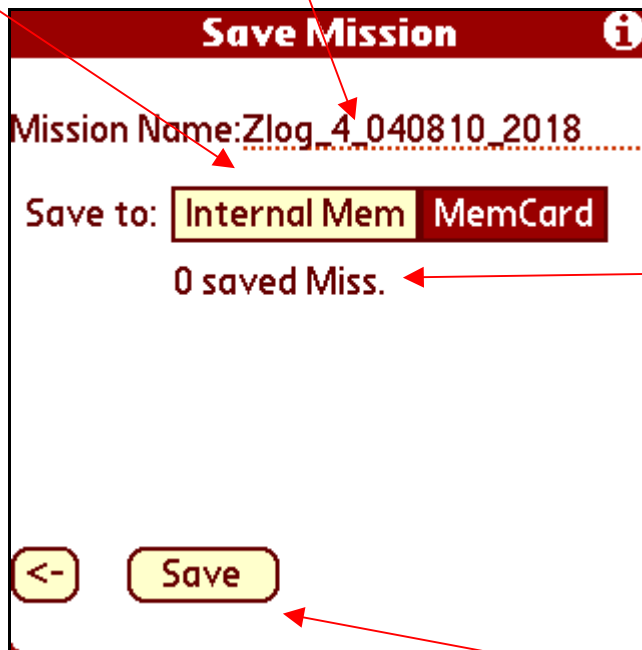
Triggers will be marked as X tickmarks on the chart. If you have a color Palm, then they will be in RED.



Tapping Save Log on the Log Menu will display the following menu:

The naming convention on the file will be the following:  
Zlog\_dataset#\_YearMonthDay\_HourMinute

You can choose between Internal memory, and your external memory card. If you have an external memory card, then please use that over the internal save as it is safer, meaning if the Palm's batteries die, then you do not lose your data.



This will show you how many missions you have saved internally.

Once you are happy with the filename, then tap the Save button

If you want to review your Zlog data on your Palm at a later time, then also save your data to your internal memory so you can use the Review mode. If you Zlog data has also been saved to your internal memory, then you can tap the menu button and choose review. Once on the review menu, you will be given a popup list with the names of all the Zlog missions you have saved. Choosing one will allow you to review the data in chart format, and also on the Plot menu at a later time without having to be connected to the Zlog again.

## Demo Mode

Zlog has a built-in Demo Mode to simulate reading data from the hardware and enable you to see ALL functionality that Zlog offers, even without registering.

## ZlogParser (Only for those who do not have SD card on their Palm)

ZlogParser is a Windows based utility to allow exporting your Mission(s) data from your Palm to a Comma-separated value file that can easily be imported into the Zlog desktop application that came with your Zlog.

ZlogParser can be used with Palms which do not support VFS(Virtual File System), to save your flight data to your PC. If your device supports VFS then it is best to use the VFS support to save your data from your Palm. Place ZlogParser.exe in the following directory:

drive\_letter:\Palm\\Backup where:

- drive letter is the drive your palm desktop software is installed in.
- <user\_id> is most likely the first 5 letters of your lastname and your first initial.
- Find this directory and place ZlogParser.exe in this directory.
- This is the location that your data is backed up to when you perform a HotSync.

Once you have saved Missions on your Palm, they will be backed up to the above backup directory when you HotSync and saved in the file ZlogDB.pdb

After you have HotSync'd, and have ZlogDB.pdb in your backup directory, just double-click ZlogParser.exe from a Windows Explorer, and it will export all the Missions that you saved into separate files called <MissionName>.csv. These files will be created in the backup directory described above. These files are all comma separated, so they can easily be imported into the Zlog desktop application that came with your Zlog.

Note: ZlogParser.exe and ZlogDB.pdb MUST be in the same directory.