

DSSHold

Holding/Landing Pattern Computer



- For PalmOS® 2.0 or later.
- Easy-to-use dialogs guide your inputs!
- Displays Holding patterns with proper entry and both inbound and outbound headings.
- Displays Landing patterns with all four pattern legs plus entry leg and course line.
- Uses only 80 K of Palm memory.
- On-line Help for each screen!

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For Technical Support

How to reach us:

You can e-mail us on the Internet at **ddeloach@msn.com** for “same or next day” service (we check our mail every day).

For technical support by phone, call Darren evenings from 7:30 pm to 10:30 pm Central at **903-583-0982**.

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Overview

Welcome to DSSHold for PalmOS! Using DSSHold, you will be able to visualize any holding pattern or landing pattern, including your entry into the pattern.

DSSHold is actually two products in one:

- a holding pattern computer for IFR holding patterns, and
- a landing pattern computer for IFR or VFR flights.

Many flight maneuvers require good visualization to perform them correctly, and holding and landing patterns are especially important in this regard. Each pattern requires you to not only know the turns and headings of the pattern itself, but also how to properly enter the pattern given your aircraft's course.

DSSHold will gather the required inputs and draw both the pattern, your course line, and optionally the wind direction so you will have a good mental picture of the pattern you must enter and fly.

This manual will give you all the information you need to get started using DSSHold. After you have installed the software on your Palm® device using HotSync®, you can get information specific to each dialog in the on-line Help.

Program Installation

Before Installing

Before you install DSSHold, make sure your computer meets the following minimum PC requirements:

System Requirements

- An IBM PC-compatible running the Palm® HotSync® software
- A PalmOS® version 2.0 or later handheld device; supports color or monochrome devices.
- 80K of free RAM in your handheld device

We welcome any comments you have on the installation and use of our software; future enhancements (and future pilots) depend on your feedback.

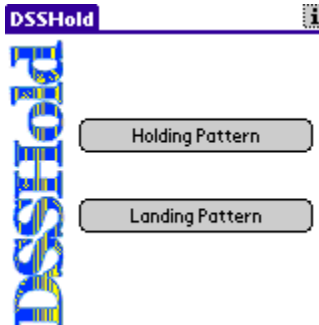
Setting Up DSSHold

1. From the Start Menu, start the Palm Desktop Install Tool.
2. Place the Installation Disk in the A: 3.5" floppy disk drive.
3. Click the Add button in the Install Tool and browse to your A: drive.
4. Select the following files to be added at the next HotSync operation: **DSSHOLD.PRC** and **MATHLIB.PRC**.
5. Click Done to exit the Install Tool.
6. Place your handheld device in the cradle, and begin a HotSync operation by pressing the button on the cradle. The software will be copied to your Palm device.

DSSHold User Interface Basics

The DSSHold Main Dialog

When you first start DSSHold, you'll see the Main dialog. From here, you can select either a Holding pattern or a Landing pattern:



There are only two **Menu** trees on the Main Screen:

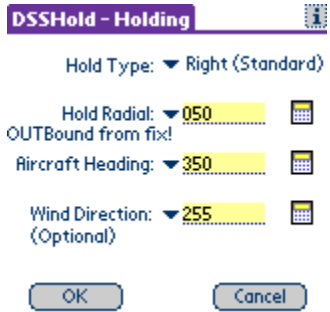
- **Edit** — The standard PalmOS Edit menu.
- **Options** — About DSSHold and About MathLib give copyright information.

From the Main dialog, you can:

- Tap the <Holding Pattern> button to begin a holding pattern calculation, or
- Tap the <Landing Pattern> button to begin a landing pattern calculation.
- Tap the <i> button at the top for on-line help. All dialogs in DSSHold have this button.

Holding Patterns

Selecting the Holding Pattern button on the Main dialog displays the holding pattern input screen:



Enter the hold type using the drop-down list; you can select either a standard right-turn pattern, or a non-standard left-turn pattern.

For the holding radial, aircraft heading and optional wind direction, you may enter the numbers in three ways:

- Use Graffiti to enter the numbers on the field
- Select the drop-down arrow and pick the value from the list
- Tap the Keypad button beside the field on the right to pop up a keypad you can tap using your fingers or a stylus; tap the Exit button on the keypad to return back to this dialog.

Enter the holding radial FROM the fix (the figure shows the 050 radial FROM) as described in the hold clearance, from 1 to 360.

Enter your course and wind direction from 1 to 360 degrees.

Tap OK when all values have been entered, and your holding pattern is displayed:

Note the holding pattern entry is described in the top right corner of the dialog, as well as shown in the pattern diagram. Your course line to the holding fix is also shown in blue, plus the inbound and outbound headings of the hold itself. If you entered wind direction, the wind line is drawn in light blue.



Landing Patterns

Selecting the Landing Pattern button on the Main dialog displays the holding pattern input screen:

Enter the landing pattern type using the drop-down list; you can select either a standard left-turn pattern, or a non-standard right-turn pattern.

For the runway and optional aircraft heading and wind direction, you may enter the numbers in three ways:

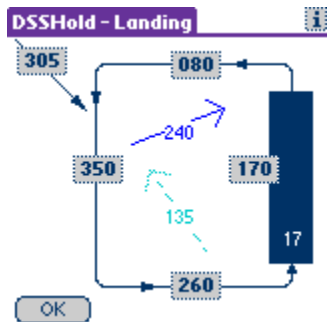
- Use Graffiti to enter the numbers on the field
- Select the drop-down arrow and pick the value from the list
- Tap the Keypad button beside the field on the right to pop up a keypad you can tap using your fingers or a stylus; tap the Exit button on the keypad to return back to this dialog.

Enter the runway number from 1 to 36 (ex. Runway 17 above).

Enter your course and wind direction from 1 to 360 degrees. These values are not required, but if you do enter them then your course line and the wind line will appear as overlays on the pattern diagram.

Tap OK when all values have been entered, and your landing pattern is displayed:

Note the four legs of the pattern, plus the 45 degree entry leg, is shown on the diagram. Your course line is overlaid near the top of the pattern diagram, so that you can see the direction from which you will arrive at the airport. Compare your course line to the 45 degree entry leg, and when you are nearing the airport you can make any necessary course changes to enter the pattern using the 45 degree entry. If you entered the wind direction, then the wind



line is drawn in light blue near the bottom of the pattern diagram.

Tap OK to close the dialog.

Summary

The safety of your own aircraft, and the other aircraft around you, depends on your ability to fly predictably using standardized traffic patterns.

DSSHold will let you visualize both the entry and the legs of the holding or landing pattern before you arrive, so that you'll already be mentally prepared to properly enter and fly the pattern in a safe and predictable fashion.

DSSHold is the perfect tool to assist you in understanding and visualizing the holding or landing pattern you must fly!

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