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## MAYDAY QUICK START

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For a list of complete instructions and documentation, please visit our website:

[www.maydayboards.com/downloads](http://www.maydayboards.com/downloads).

Instructions valid for firmware versions:

**1.0.0 – 1.0.2**

Written on: **18/12/2015**

**ATTENTION:** Before use, visit our website [www.maydayboards.com/downloads](http://www.maydayboards.com/downloads) to update the software on the Mayday. Software updates are incredibly important to ensure the safety & reliability of your system during use!

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## CONNECTING TO A PC

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To update the Mayday firmware you will need a Windows PC running XP or newer.

Before connecting the Mayday to your computer, go to [www.maydayboards.com/downloads](http://www.maydayboards.com/downloads) and download the 'Mayday Firmware Updater' zip file.

Unzip the folder in a location of your choosing. Run the **avrInstall** application and follow the prompts to completion. Connect the Mayday to your computer and wait for it to light up. Now run the **Mayday Firmware Updater** application.

Select the firmware file (Mayday.cpp) located in the same folder as the applications. Select the available COM port option from the drop down menu.

Hit upload and wait 10-20 seconds for the firmware to finish installing. Once complete, the Mayday should light up bright white then turn to light blue.

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## BUTTONS

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The Mayday has two pushbuttons labeled 'A' and 'B'.

**Button A:** Quick press once to move the servo head into the armed position. **Hold for 3 seconds to arm the Mayday before use during flight.**

**Button B:** Quick press once to move the servo head into the disarmed location. **Hold for 3 seconds to enter calibration mode.** While armed, press and hold to disarm.

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## CALIBRATION

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From the idle mode, press and hold button **B** to enter servo programming mode.

Once in servo programming mode you will be able to guide the servo head left and right using the A & B buttons.

You must set up to three waypoints for the servo head to travel to during deployment.

To set a waypoint, quick press both the A & B buttons at the same time.

Each waypoint corresponds to a different color during programming.

**GREEN:** Final servo position for parachute ejection. (Disarmed or 'Opened' location. Set this location to release the parachute for deployment.)

**ORANGE:** Middle servo position. (Travel position that the servo will go through on its way to the GREEN position from the RED position. If unsure, set to same location as GREEN.)

**RED:** Initial servo position for parachute holding. (ARMED or 'Locked' position. Set this position to hold the parachute before release.)

Place the Mayday board on a mounted position on the craft. The LED will flash white while it is calibrating if it is not stable enough. The LED will show dim red if it is calibrating. After calibration the Mayday will flash green to let the user know if the board has been calibrated successfully or flash red if the calibration was unsuccessful.

A demonstration video is available on our website [www.maydayboards.com](http://www.maydayboards.com)

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## HEADER INPUTS

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The Mayday uses a 2x3 male header pin connector for power, servo control, and manual override.

Each pin on the Mayday is reverse current protected to a reasonable extent. (Each protection max varies pin to pin.)

The Mayday can take a power input from 2.7v to 11.8v. Both grounds are connected. The servo output operates at 5v.

