

Pelagic Software Updates Upgrading System Software

Upgrade Requirements

- A Windows PC running Windows 7 or later.
 - Or An Apple PC running a recent version of IOS.
- A mini-B USB cable that fits into the computer USB port.
 - The mini-B side connects to the Pelagic control unit
- A small Philips screw driver to open the case of the Pelagic's control head.
- You do not need to provide power to the Autopilot during the upgrade process.



Receiving Software via Email from Pelagic Help Desk

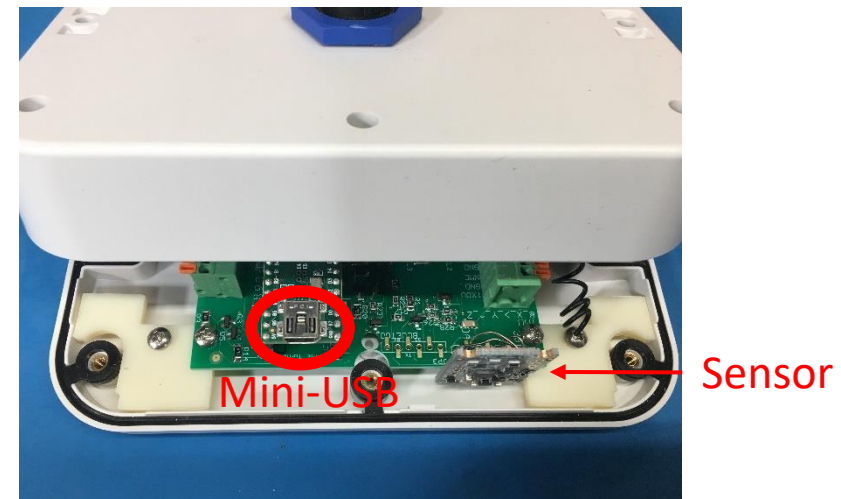
- This is the standard method of distributing the Pelagic software updates.
- There are several files associated with the software and each will need to be downloaded individually.
- Create a new folder, “PelagicSW”, or pick a name.
- Click on the individual links in the email to download the files into the directory you created.
 - If you are running a Windows system, you do not need to download the Apple .dmgy file
 - If you are running an Apple IOS system, you do not need to download the Windows .exex file
- Make sure the .hex, .elf and either .exex or .dmgy, files are all inside the same folder.
- Rename the .exex file to a .exe file, removing the last “x”. These files are sent as an .exex extension because many spam filters will not allow a .exe file to be downloaded, assuming it is a virus.
 - If using IOS (Apple) remove the last “y” from the .dmgy file, renaming it .dmg

Receiving Software via Email

- Create a new folder, “PelagicSW”, or pick a name.
- Download, or move, the ZIP file into the directory created.
- Open the folder containing the ZIP file with windows explorer.
- Right-click on the ZIP file and select “Extract All”. This will decompress the files into a new folder.
 - Make sure the .exex, .dmgy, .hex, and .elf files are all inside the folder together. **The loader will not work if you try to run it from the .ZIP folder, make sure they are extracted.**
- Rename the .exex file to a .exe file, removing the last “x”. These files are sent as an .exex extension because many spam filters will not allow a .exe file to be downloaded, assuming it is a virus.
 - If using IOS (Apple) remove the last “y” from the .dmgy file.

Loading the New Software

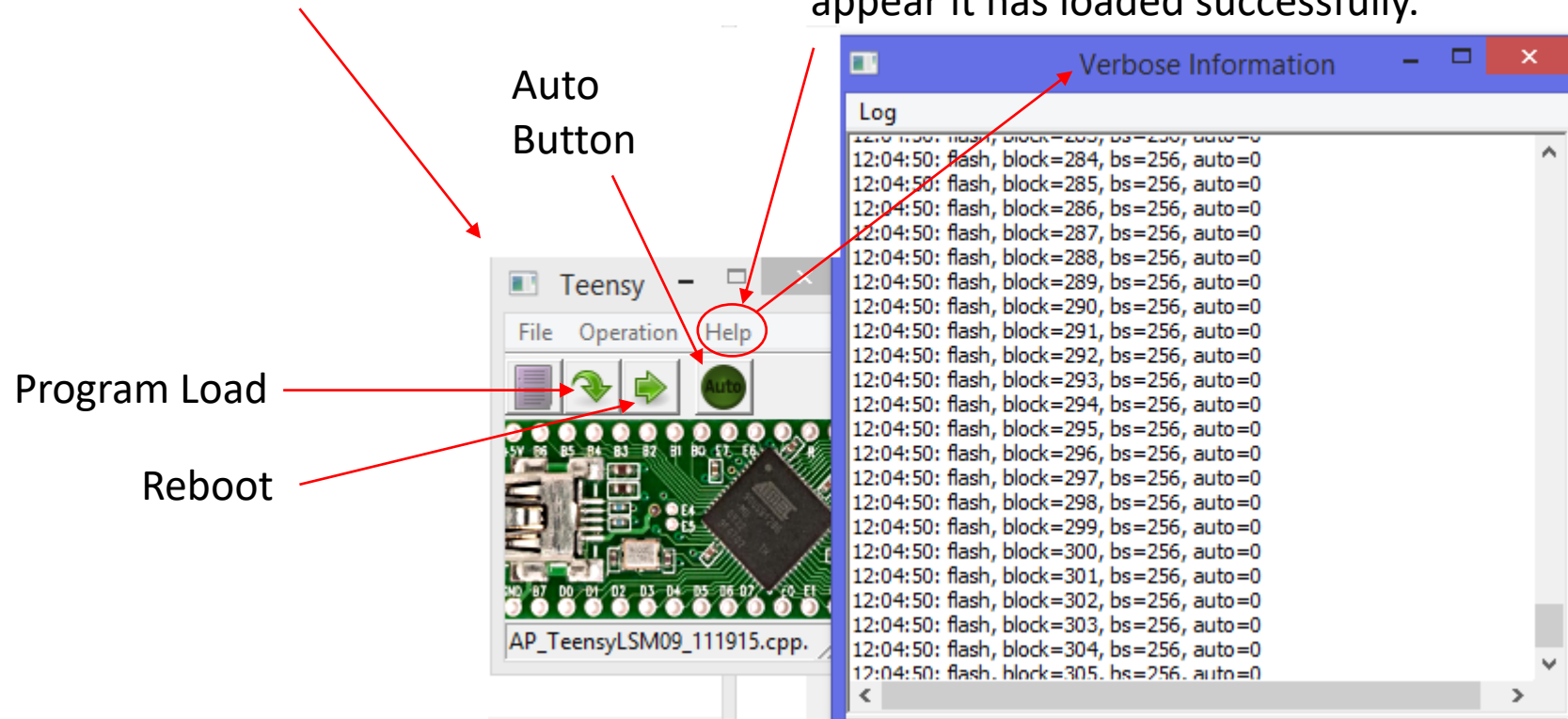
- Power off and remove the Pelagic control unit.
- Using a small-head Philips screw driver, open the autopilot control head by removing 6 screws on the back.
 - Note the original model has 4 screws on the face.
- With the serial number on the far side of the unit, carefully lift the cover and slide it towards the back of the unit, exposing the Mini-USB connector. Be careful **NOT** to push on the sensor.
- Connect the USB cable to the computer.
- Locate the USB Mini-B connector on the raised processor board as shown. The connector is at one end and the other end has a push button.
- Insert the Mini-USB USB cable into the socket.
- Run the Teensy.exe program (.dmg on IOS) which will open the Teensy loader window (note, it's very small)
 - It will automatically recognize the Pelagic system



The Teensy Loader for Windows PC

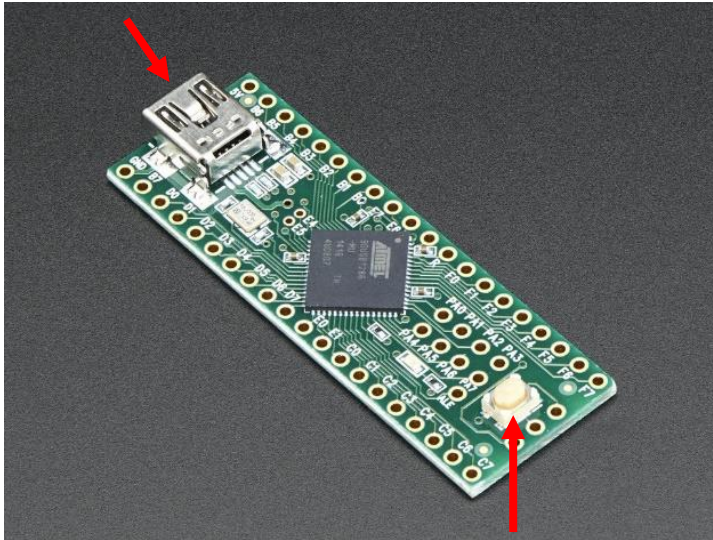
This is the Teensy loader window. It will appear when you run the teensy.exe file

Click on Verbose Mode under the Help button to view status of the download. If no errors appear it has loaded successfully.



Loading New Software (continued)

Mini B - USB
connector



Press Button

- Make sure the small AUTO button on the TEENSY loader is GREEN. Click on it to change the state. If this does not happen go to the file button on the TEENSY screen and click on "Open Hex file". Proceed to open the file.
- With the cable connected to the PC and the control unit, **press the small button on the micro computer**. The TEENSY load progress will show program load data for about 7 secs.
 - If software doesn't load automatically, you can click on the "Program Load" button shown on prior slide
- To view status of the download, you can click on Verbose Mode under the Help button. If no errors appear, it has loaded successfully.
- Once it completes, the Pelagic will reboot and come up in standby mode, with the red light flashing.
 - If the unit doesn't reboot automatically, you can click on the "Reboot" button shown on prior slide
- There is no other action required. All your previous settings, including calibration, orientation and gain will be intact.
 - The log file can be saved by choosing in the Verbose Information Log.
- Close the case, be sure to snug down the case screws as they create the watertight seal.
 - They should be tight but not so tight as to crush the seals. Tighten in a cross-case order and then retighten the screws you started with, similar to a head gasket order.

Control Head Models – Access to the USB connector.



Current Model: USB Connector is exposed by removing 6 screws on the back of the control head.



Original model: The USB connector is exposed by removing 4 screws on the front panel and then the circuit board by removing the 3 screws holding it in place.