



Upgrading the software in C70, C80, C120, E80 and E120 Displays

Upgrading the software on the C70, C80, C120, E80, and E120 is fast and easy using a commonly available CompactFlash (CF) memory card, a memory card reader for your PC or Apple Mac computer, and the latest Raymarine multifunction display (MFD) software which may be downloaded from [Raymarine's Software Updates webpage](#).

Before beginning the software upgrade, you may wish to read the following related answers from the Raymarine knowledge base:

- Latest Software for C-Series Displays (C70, C80, C120)
- Latest Software for E-Series Displays (E80, E120)
- Choosing Compact Flash Cards and Reader/Writers
- Formatting CF Cards for Use With C-Series Displays
- Backing up waypoints, routes and tracks on C and E-Series

Obtaining the Latest Software for Your MFD

The latest software for Raymarine's MFDs is always available for download on the "Downloads and Updates" tab on the product's web page on Raymarine.com.

If you have not already registered your Raymarine products online, you will be prompted to do so before you will be permitted to download software upgrades.

To register your product, you will need to know your MFD's serial number which can be found on the rear of the MFD, on the UPC code on the end of the original box your MFD came in, or under the UPC code on the product registration decal that came with your MFD. One of these decals may have been affixed to the record card in your MFD reference manual by the Certified Raymarine Installer. Additionally, serial numbers for MFDs may be accessed via the product's user interface. Keying the command sequence MENU->SYSTEM DIAGNOSTICS->SOFTWARE SERVICES=>UNIT INFO will provide access to the MFD's SERIAL NUMBER.

Unpacking the Software Download

There are software downloads available for users of both Windows-based PCs and Apple Mac Computers.

The Windows version of the download is a self-extracting WinZip file. Simply download the file from Raymarine to your desktop. Double-click on the icon for the downloaded file to run the self extractor. By default, the package will extract to the location:

C:\Raymarine\CSeries (or E-Series)

If you are happy with that location, then click the UNZIP button and then close the WinZip self-extractor after the software update files have been extracted.

The Mac version of the software is a simple WinZip file. Use your own Stuff-It Expander software to open and extract the software file. Windows users who are familiar with WinZip can also download and use this file if they desire.

Copying Files to a Compact flash Memory Card

PC Users: open the folder:

C:\Raymarine\CSeries\CSeries_vXXX
or
C:\Raymarine\ESeries\ESeries_vXXX

(Where XXX denotes the software version.)

Inside of this folder, you will find a DOB file called "autorun.dob" and also a PKG file. The exact name of the PKG file will vary slightly depending on whether the file is intended for use with a C or E-Series MFD, and the software version number, but have a form similar to "E_App_Upg_429.pkg."

Mac users, go to the location you extracted the files contained in the ZIP file to. You should see the same DOB and PKG files as mentioned above.

Now, for both systems, using your CF memory card and your computer's CF memory card reader/writer, copy both the DOB and PKG file to the root level directory for the removable disk drive corresponding to your CF memory card (ex. Removable Disk (E:)). For example, if your computer has assigned Removable Disk (E:) to your CF memory card reader/writer, then the software update files (i.e. the DOB and PKG files alone) should be copied directly to Removable Disk (E:), not to any folders created on the CF memory card.

Your upgrade card is now ready.

Backing Up Your Waypoints, Routes and Tracks

It will be necessary to reset the MFD as the final step in the process of updating it. This procedure WILL erase any of the waypoints, routes and tracks that are currently stored within the MFD.

To backup your data before upgrading, please follow the steps outlined in: Backing up waypoints, routes and tracks on C and E-Series.

The steps for restoring this data to the MFD are also contained in this same FAQ.

Note: one may use a single CF memory card to both backing up the data within one's MFD as well as for performing the software update. When using this CF memory card for backing up the data within one's MFD, be certain to not insert the CF memory card into the MFD's CF memory card reader/writer until the MFD has been powered up and has completed its startup initialization.

Upgrading the C-Series or E-Series MFD

Now that you have backed up your data for safe keeping, we will upgrade the MFD software.

1. Turn off the power to your MFD unit, and remove any installed Navionics Chart or CF memory cards.
2. Insert the CF memory card containing you just prepared into the card slot on your C-Series or E-Series MFD.
3. Turn on the MFD unit's power with the red power button.
4. The MFD will power up to a Software Update Utility screen like that pictured below.
5. In the column on the left under "Upgrade Packages Available" there should be a single file listed. Its name corresponds to the name of the PKG file that you copied to your CF memory card. Note: In the event this CF memory card has been used for previous upgrades of the MFD, you may see previous upgrade packages available as well. Highlight the one corresponding to the latest software version using the track pad control.
6. Press the soft key labeled "UPGRADE THIS UNIT."
7. You will see first a single bar, then a double-bar progress indicator appear indicating that the software is being transferred. This process can take up to 90 seconds.
8. When the progress indicator reaches 100%, it will disappear to indicate that the software upgrade is complete.
9. Remove the upgrade card from the card reader slot.
10. Press the soft key labeled "REBOOT." The MFD will restart and come up in normal operating mode.
11. You can confirm that the upgrade was successful by examining the "Navigation Warning" dialog box that appears at startup. The software version installed in the MFD is indicated on the lower right corner of the box, as illustrated below and circled in magenta.
12. Press the OK to continue as you normally would.
13. As a final step in the process we must reset the MFD for the final initialization of the new software to occur. Press and hold down the power key until the MFD shuts off.
14. Press and hold down the left-most soft key, while simultaneously pressing the releasing the power key. The MFD will power on, then the words "Factory Reset" and a countdown 3...2...1 appear. You must hold in the left-most soft key throughout the entire countdown.
15. The MFD will then restart. When the "Limitations of Use" disclaimer appears, press OK to accept the terms.
16. Power off the MFD.
17. This step applies to C-Series Classic MFD owners only. Press and hold down the left-most soft key, while simultaneously pressing the releasing the power key to perform a second Factory Reset. The MFD will power on, then the words "Factory Reset" and a

countdown 3...2...1 appear. You must hold in the left-most soft key throughout the entire countdown.

18. The MFD will then restart. When the "Limitations of Use" disclaimer appears, press OK to accept the terms. You may reinsert your Navionics Chart card at any time.

At this point the MFD is ready for normal operation. You should restore your waypoints and routes from your CF memory card. As well, if you customized any of the settings (ex. page customization, units configuration, chart layer configuration, etc.), you will need to manually re-configure these settings. Please refer to your owner's handbook for more details.