



## How to Update NN3D to v2.13 (Combo Update)

MFD8/12



### 1. NN3D v2.13 Update Introduction

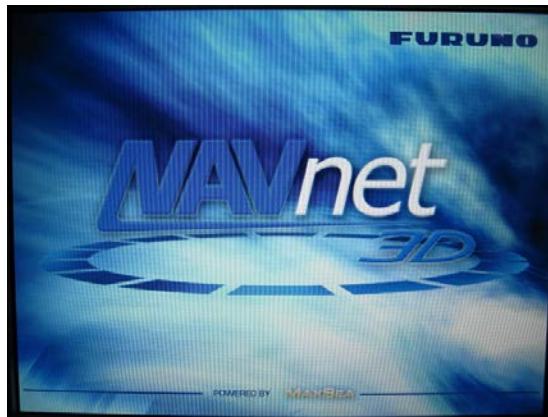
MFD8/12 - The MFD8 and MFD12 are updated using a single SD-Card. The same SD-Card/Program updates both the MFD8 and MFD12 displays. A pre-programmed v2.12 SD-Card can be purchased from FUSA (Part Number NN3-812-SD1) or downloaded from [www.FurunoUSA.com](http://www.FurunoUSA.com) (approx. 40MB download). Please refer to the appendix for detailed instructions on how to download and burn the update files on a regular SD-Card.

#### IMPORTANT ISSUES:

1. Furuno RECOMMENDS that you perform a Master reset on the MFD8/12 before applying the update. Performing a Master reset will clear all the settings, routes and waypoints (a Master Reset will not remove any chart data). Please refer to the appendix for detailed instructions on how to perform a Master Reset on the MFD8 and MFD12 and how to backup the waypoints and routes.
2. To correctly apply the update, all MFD(s) MUST be disconnected from the Network.
3. Do NOT mix Navnet 3D MFD Software Revisions in a given network. Make sure that all MFDs are updated at the same time to v2.13.

#### 1.1. Update Procedure – MFD8 and MFD12

- a. Power OFF every MFD on the network and DISCONNECT the network cables of every MFD (this can be done by disconnecting the Ethernet cables on the back of the MFDs or at the HUB).
- b. Insert the Update SD-Card into **the upper slot** of the MFD's card reader.
- c. Power ON the MFD.
- d. The Following Screen will appear.



- e. After the message “Do you want to update the program?” appears, click O.K.
- f. After the message “Do you want to update the FPGA1 program?” appears, click O.K.
- g. After approximately 20 seconds, the unit beeps and the LED at the power key flickers every 1 second.
- h. Power off the unit and remove the SD card.
- i. Perform a Master Reset on the MFD then power it OFF (follow the instructions at the end of this document) Make sure to save all waypoints, routes, settings to an SD card first.
- j. Repeat this process with every MFD8/12 installed on the vessel.

If you do not have an MFDBB in the network, reconnect all the network cables and turn on all of the MFD(s) starting with the Master. If you have a MFDBB, follow the update instructions for that unit.

***Important:** When the MFDs are up and running, you must reset the Vector Charts settings to the factory defaults. Press the [MENU] key, select the “Chart” menu and press the “Reset Default Settings” button (at the end of the page) under the “Vector” and “Custom Config” tab. Repeat this process on every MFDs.*

*After resetting to the default settings, the user is free to adjust the settings the way he likes.*

## 2. Appendix

### 2.1. Create an SD-Card to update the MFD8/12

A 64MB or larger SD Card (32GB Max) is needed for the update. Furuno highly recommends using “SanDisk” SD-Cards.

- a. Download the ZIP file at [www.FurunoUSA.com](http://www.FurunoUSA.com).
- b. Unzip the files on your computer. This creates a folder named “1950055\_0213”.

- c. Insert a SD-Card into your computer. If the SD-Card folder automatically opens, close it.  
Note: Make sure that the SD-Card is empty (delete any file)
- d. Open the folder you unzipped in step b). Select all files (CTRL-A) and Copy them (CTRL-C).
- e. Open the SD-Card and Paste all the files **to the root of the SD-Card** (CTRL-V). In other words, you should see a bunch of files when you open the SD-Card.

## 2.1. How to backup Routes and Waypoints

An SD-Card will be necessary to backup the Waypoints and Routes

- 1) Power ON the system.
- 2) Insert the SD-Card into the SD-Card slot of the NN3D keyboard.
- 3) Press the [MENU] key and turn the RotoKey to select the “File” category.
- 4) Use the Cursor and click on “Export Points and Routes”.
- 5) Select “Yes” when the message “A SD-Card has been detected...” appears.
- 6) Enter a file name by turning the RotoKey (to select a character) and pressing the RotoKey (to validate the current character). Press on the RotoKey twice to validate the name and save the backup file.

To recall, a backup file,

- 1) Insert the SD-Card containing the backup file into the SD-Card slot of the NN3D keyboard.
- 2) Press the [MENU] key and turn the RotoKey to select the “File” category.
- 3) Use the Cursor and click on “Import Points and Routes”.
- 4) Select “Yes” when the message “A SD-Card has been detected...” appears.
- 5) A message box will appear with a list of all the backup files contained on the SD-Card. Simply turn the RotoKey to choose the file you want to import then push on the RotoKey to validate.

Note: When importing a backup file, it overwrites and replaces all the Routes and Waypoints currently loaded in the unit. You can Export your current Waypoints and Routes database on the same SD-Card (under a different name) if you want to revert back to your old database later on.

## 2.2. Master Reset

The Master Reset will restore every setting (Installation and User settings) to the factory defaults. A Master Reset will also erase all Waypoints, Routes and tracks. It is recommended to backup the user database on an SD-Card before doing a Master Reset.

*Note: A master reset will NOT erase the charts. However, if the chart unlock codes were entered manually via the keyboard, they will be erased. If they were entered via the ucpool file, they will not be erased.*

- 1) Power OFF the MFD and disconnect it from the network.
- 2) Press and Hold the [CANCEL] key.
- 3) Start the MFD and continue to press the [CANCEL] key.
- 4) The Cursor will appear, continue to hold the [CANCEL] key until the Installation Wizard appears (approximately 1-2 minutes).
- 5) The MFD8/12 will not shut OFF (unlike the MFDBB) but the Installation Wizard should appear with the language selection (confirming the Master Reset).
- 6) When the language selection appears simply turn OFF the MFD by pressing the Power key for 5 seconds.

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