



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

MFDBB



## 1. NN3D v2.13 Update Introduction

MFDBB – The combo update for the MFDBB requires a USB Jump Drive (USB flash memory stick). Additionally, a USB KEYBOARD and USB MOUSE ARE REQUIRED to perform the update. A pre-programmed USB Jump Drive can be purchased from FUSA. Caution: You must use the correct software file depending on what type of Motherboard is in the MFDBB. New MFDBB processor units sold after March 1<sup>st</sup> 2012 and having a serial number of 4350-3067 and higher use the “DUX” motherboard. Part # for a pre-programmed USB Jump Drive is NN3-DUX-JMP. MFDBB processor units sold before March 1<sup>st</sup> 2012 and having a serial number of 4350-3066 and lower use a “Kontron” motherboard and must use USB Jump Drive part # NN3-KON-JMP. Dealers can view service advisory #06-12T dated April 30<sup>th</sup> 2012 for more information. You may also supply your own 2GB or 4GB Jump Drive (DUX mother board requires 4GB USB Jump Drive) and download the update (approximately 800MB download) from [www.FurunoUSA.com](http://www.FurunoUSA.com). Please refer to the appendix for detailed instructions on how to download the necessary files and create a USB Jump Drive that can be used to update an MFDBB.

### IMPORTANT ISSUES:

1. Furuno STRONGLY RECOMMENDS that critical waypoints/routes are saved to a separate SD Card before you attempt to update an MFD's Software. Please refer to the appendix for detailed instructions on how to backup waypoints and route data.
2. To correctly apply the update, all MFD(s) MUST be disconnected from the Network.
3. Before updating an MFDBB system that is configured as a Master (DHCP “ENABLED” or “ON”), it **must be reconfigured as a Slave** (DHCP “DISABLED” or “OFF”) from the Installation Wizard section of the menu.  
**You must perform a Master reset on the MFDBB** before applying this update. Performing a Master reset will automatically set the MFDBB as a slave and clear all settings (a Master Reset will not remove any chart data\*). Please refer to the appendix for detailed instructions on how to perform a Master Reset. \*Unlock codes entered manually will be erased. If entered via Ucpool file, they will not be erased.
4. Do NOT mix Navnet 3D MFD Software Revisions in a given network. Update all MFD's to version 2.13.

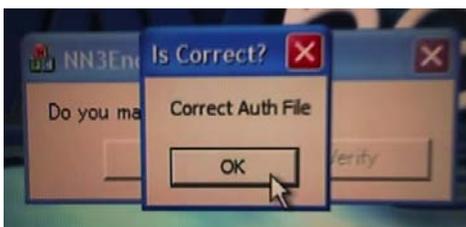


```
Update(Only) CompactFlash OS Image
Sun Dec 16 13:03:48 EST 2007
Now write disk image.
Please wait about 18 minutes.
root@tty1:~# 253898*8 records in
253898*8 records out
1839933448 bytes (1.8 GB) copied, 575.951 seconds,
Sun Dec 16 13:13:24 EST 2007
Please type reboot[ENTER]
```

- f. Type “reboot” and press ENTER.
- g. As soon as the message “Please Hit return [auto 15 seconds]” appears, remove the USB jump drive (within 15 seconds) **then** press the ENTER key on the USB Keyboard.

```
gration/1) (ksort/1) (mitchmo/1)
spend_usbd) (khubd) Done.
Waiting for processes to finish.....
Syncing/Unmounting filesystems: /dev/
Turning off swap... Done.
Unmounting remaining file systems.
/dev/root unmounted
Preparing for reboot...
Please hit return [auto 15 seconds].
```

- h. The System will automatically restart. After approximately 3-4 minutes, the following screen will appear. Select “Make” by pressing the [ENTER] key on the USB keyboard or by using a USB mouse (that you can plug on the USB port that was previously occupied by the USB Jump Drive).



- i. Then click on OK to confirm (or press the [ENTER] key on the USB keyboard).
- j. After approx. one minute, the MFDBB will shut down.
- k. Repeat the update process with every other MFDBB.
- l. Once every MFD(s) has been updated, start the unit that will be set as a Master (leave it disconnected from the network at this point). When the installation wizard appears, select the language (if you previously did a Master Reset) then skip the countdown. Set the unit as Master then click on “Save and exit”.

The MFDBB will restart **then** shutdown automatically. When the MFDBB is shutdown, reconnect all the network cables and repower the MFD(s) beginning with the Master.

***Important:** When the MFDs are up and running, it is highly recommended to 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 all MFDs.*

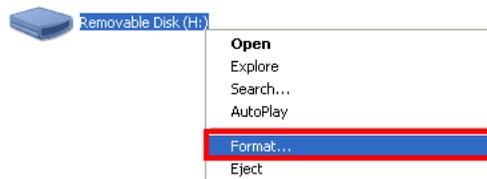
*After resetting to the default settings, the user is free to adjust the settings the way he likes.*

## 3. Appendix

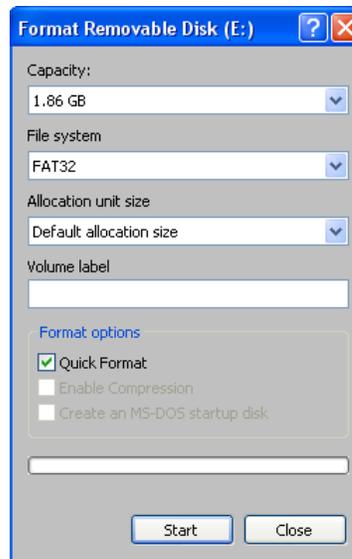
### 3.1. Create a USB Jump Drive to update the MFDBB

A 2GB or 4MB (DUX Motherboard requires a 4MB USB Jump Drive) USB Jump Drive is required to update the MFDBB.

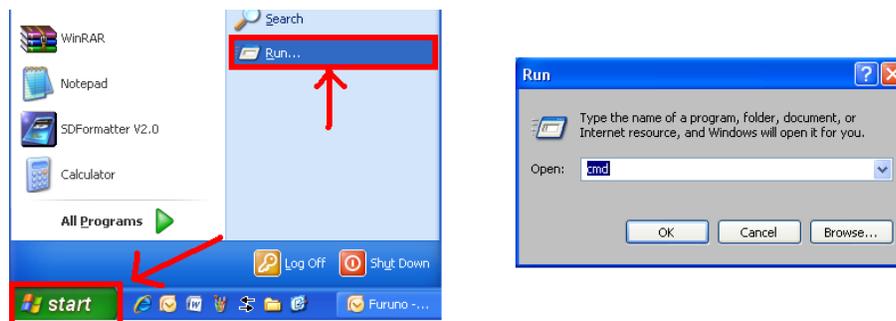
- a. Download the ZIP file at [www.furunousa.com](http://www.furunousa.com).
- b. Unzip the files on your computer. This will create a folder named “MFDBB\_1950052\_0213\_Kontron” or “MFDBB\_1950052\_0213\_DUX”, depending on what MFDBB software file you downloaded. Caution: You must use the correct software file depending on what type of Motherboard is in the MFDBB. MFDBB processor units sold after March 1<sup>st</sup> 2012 and having a serial number of 4350-3067 and higher use the DUX motherboard. Dealers can view service advisory #06-12T dated April 30<sup>th</sup> 2012 for more information.
- c. Insert the USB Jump Drive into your computer.
- d. If the Jump Drive folder automatically opens, close it. Click Start and select “My Computer”. Right-click on the Removable Disk and choose “Format”.



- e. Format the USB Jump Drive **using FAT32** (you can use “Quick Format”).



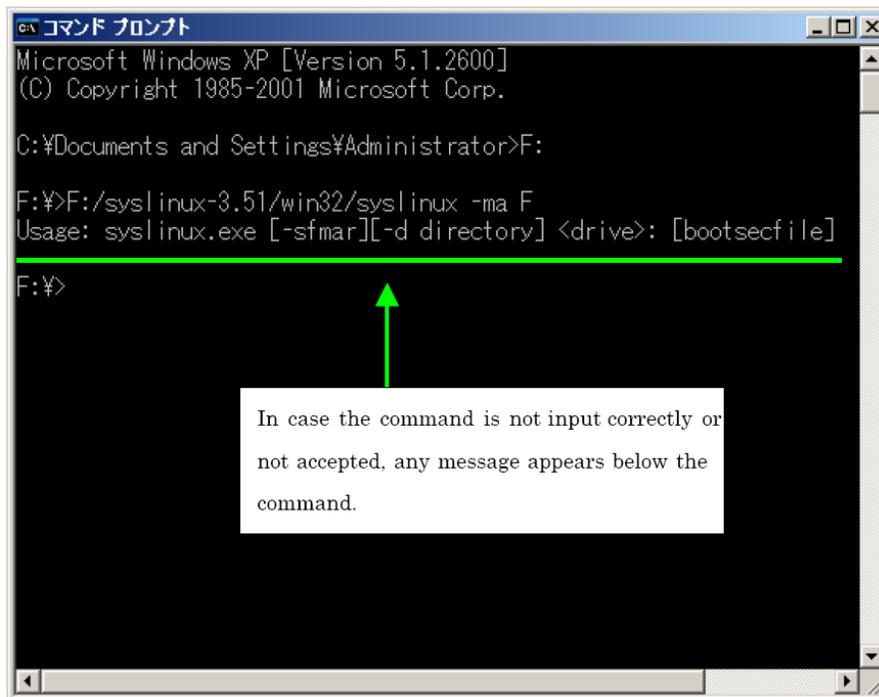
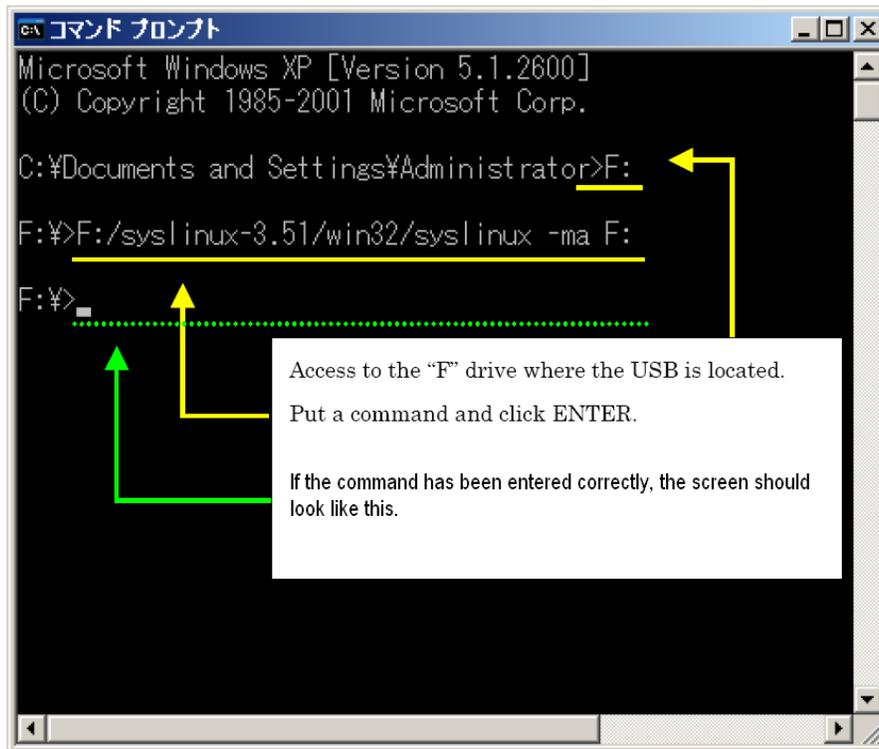
- Open the folder you unzipped in step b). Select all files and folders (CTRL-A) and Copy them (CTRL-C).
- Open the USB Jump Drive and **Paste all the files and folders at the root of the Jump Drive** (CTRL-V).
- Open a DOS command prompt (click on “Start”, then “Run” then type “cmd” and select “OK”).



- Type “X:” where X is the letter of the USB Jump drive.
- Type the following command (in the following example, the USB jump drive letter is F) and press RETURN.

**F:/syslinux-3.51/win32/syslinux -ma F:(in case the USB is located in “F” drive)**

Space      Space



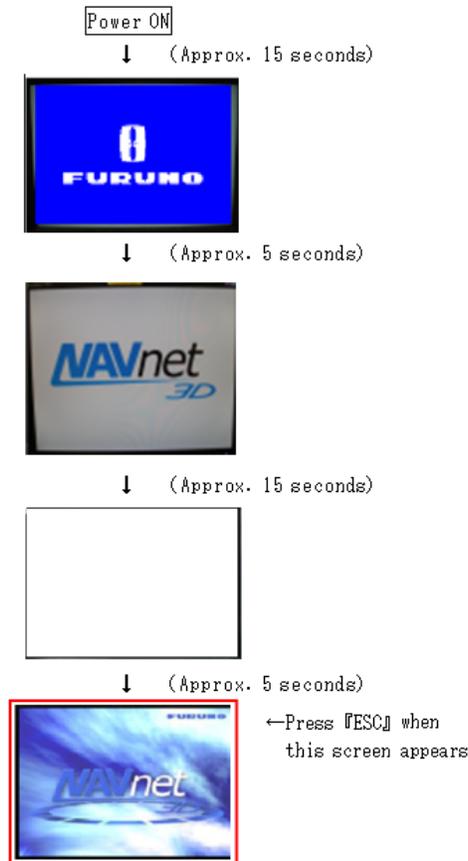
## 3.2. Master Reset

A USB keyboard is needed to perform a Master Reset on the MFDBB. 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*

*Note: The USB Keyboard needs to repeat the key command when the corresponding key is held. Some keyboards (such as a wireless keyboard) will not be able to reset the MFDBB.*

- 1) Disconnect any network device (only connect one MCU001 Keyboard controller).
- 2) If the MFDBB is on, Power it OFF by pressing the “Power” key of the MCU001 keyboard for more than 5 sec.
- 3) Make sure the USB keyboard is correctly plugged into one of the USB ports of the MFDBB.
- 4) Turn ON the MFDBB. As soon as the last screen of the following sequence appears (NavNet3D logo on a “blue cloud” background), push and hold the ESC key on the USB keyboard until the MFDBB restarts automatically.



- 5) When the MFDBB restarts, you can release the ESC key. After approximately 1-2 minutes the MFDBB will power OFF completely (with software version 2.01 and above). If the current software of the MFDBB is v1.11 or earlier, the installation wizard will appear on the Language Settings. In this case, simply shutdown the unit manually by holding the power key on the BB keyboard for 5 sec.

### 3.3. 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.*