

Display Software Update Instructions

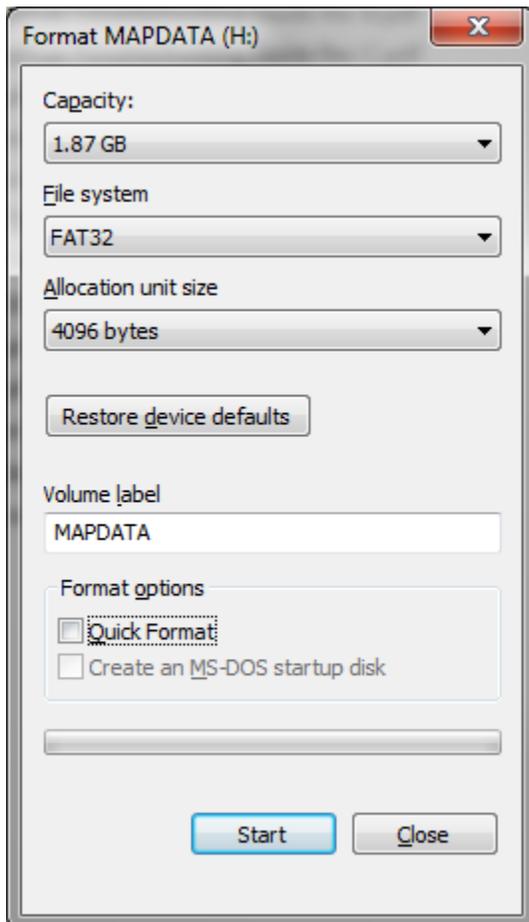
Software in the Enovation Controls color displays can be updated through the USB port. This process applies to all color displays.

NOTE: Verify you have a USB Flash drive compatible with USB 2.0 and it is not a uDisk drive. (See Appendix C to determine if it is a uDisk)

Step 1: Format your FLASH Drive



Using your computer format the FLASH drive as a FAT32 file system.
Make sure Quick Format is de-selected
Do not use a MAC/Apple computer for this operation.
If it is already formatted erase any auto executable files.



Step 2: Download files from your OEM source

Download the file straight from the website to your thumb drive or first to your downloads folder then right click on the file to send it to the thumb drive.

Do not add spaces or special characters to the file name.

Do not unzip the file.

Do not try and open the file by double clicking on it.

Make sure your Web Browser does not automatically open files of known type.

Make sure Windows did not append a number to the file name like .tar(1).gz.

The file name should always end in .tar.gz, .gcibin, .pv1 or .pv2.

Step 3: Insert the thumb drive

For help locating the USB connection see the installation manuals for the specific displays which can be found on the support site support.enovationcontrols.com.

Step 4: Start the Loader

Apply power to the display while holding any button except the lower left one or far left one in the case of the PV480/485. Release the button when you see "Booting" appear on the screen. If the loader comes up prompting you to plug the thumb drive in try a different one or check continuity on the cable, pinout is listed in the appendix.

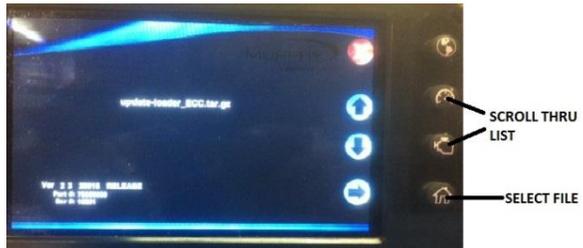
If your display is all glass with no buttons hold a magnet to the back of the display in the area shown in the installation manual, then apply power. There will be usually be a circular area along the top or a cutout in the top center where the magnet should be held.

Loader Screen – plug in USB flash drive prompt



Step 6. Update the configuration File

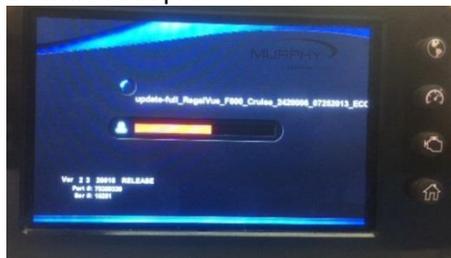
a) Select the file



b) Start the download



c) Download in process



d) Download Complete



e) Display will automatically reboot and load the configuration file

Appendix A. Error Codes

These error codes will appear when there is a problem during the download process:

- Unit gets stuck indefinitely loading the file – possibly illegal characters in the file name () or spaces or file is corrupted. See ! - 0 error code which are similar.
- ! - 0 – cannot recognize the file, probably has (x) added to the extension; .tar(1).gz instead of .tar.gz, (1).gcibin, or file is corrupted. Check for illegal characters in file name – spaces or ().
- 300 – Password flag read error
- 301 – Invalid file: password flag, wrong file type for display, PV780-.gcibin vs PV780B-.pv1), possibly out of memory from large data log files. M2 Platforms before loading a .pv2 file install the PV2 Support Upgrade.pv1 file.
- 302 – Security error: Unsecured file on a secured unit
- 303 – Part Number Match failed
- 304 – Corrupted tar file
- 305 – Load for different display type (.tar)
- 306 – Load for different display type (.gciBin)
- 307 – Unknown file extension (check for spaces in file name or illegal characters)
- 308 – Not a post ECC corrected load
- 309 – Password incorrect
- 401 – Corrupted tar file
- 402 – Unknown hardware family
- 403 – Corrupted load file or Missing Part Number
- 404 – Not a post ECC corrected load or Missing Serial Number
- 405 – Attempt to Downgrade the BootLoader, Attempt Rejected
- 406 – eMMC Downgrade Error – Config needs to be built in newer version of PowerVision
- 501 – Factory Reset Error

Bootloader Does Not recognize the display part number –

Part number is Red

Question mark next to part number



Appendix B. Powervision Developers

Script routines are compiled after they are transferred to the display from a USB Flash drive or from a direct connection to Powervision. One of the last tasks the loader performs is compiling the script routines, if there is an error in the script routine which hangs up the compiler the loader may also hang up and never appear to complete the installation process. You will need to connect directly to the display with Powervision and compile the scripts in that manner to see where the error is.

Appendix C. USB Flash Drive vs uDisk Drive

Both of these devices appear the same and work properly in the Windows browser on a computer however the uDisk does not work reliably with the displays. If the flash drive is not recognized perform the following check:

- 1) Plug in your USB device
- 2) Open the Windows control panel then open the device manager
- 3) Expand the Disk Drives category
- 4) The description will indicate if it is a USB device or a UDisk Device

