

Firmware Color Editor for CBD D-type based LCD printers

Introduction

CDB D-type based printers, such as Anycubic Photon, Epax X1 or Kelant Orbeat are known for their low contrast user interface. While the UI graphics can be edited using community tools the text colors are built into the firmware and CBD has ignored user requests to use others.

This software allows users to modify some of the UI colors that can't be changed using UI file modification tools.

To avoid the risk of printer damage only previously checked firmware versions are supported.

WARNING

This software modifies the printer firmware!

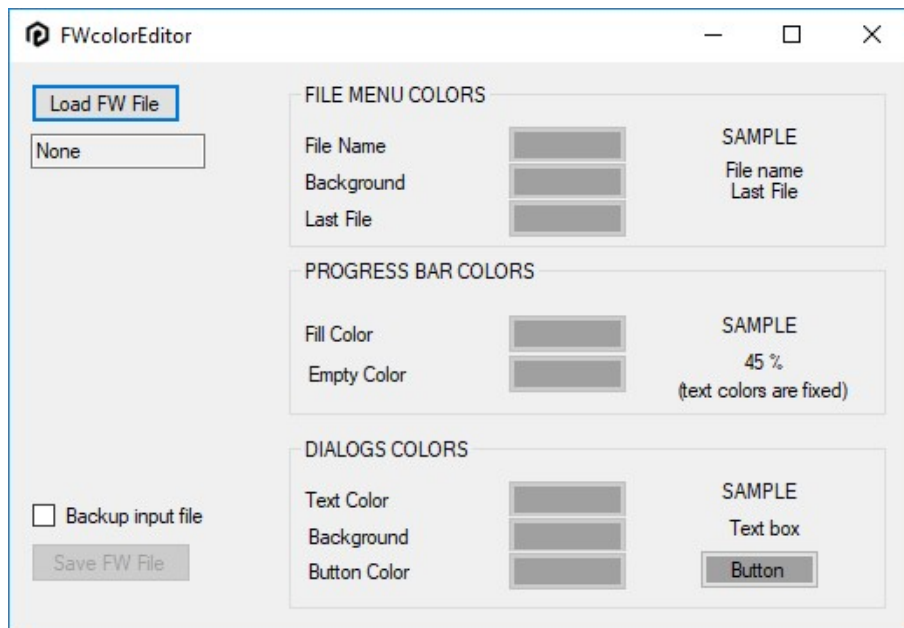
Do NOT modify this software or the associated firmware database (FWdata.csv) if you are not completely sure of what you are doing.

Failing to do so may end in bricked or damaged printers!

This software is provided AS-IS and user assumes all the responsibility of the use of this program.

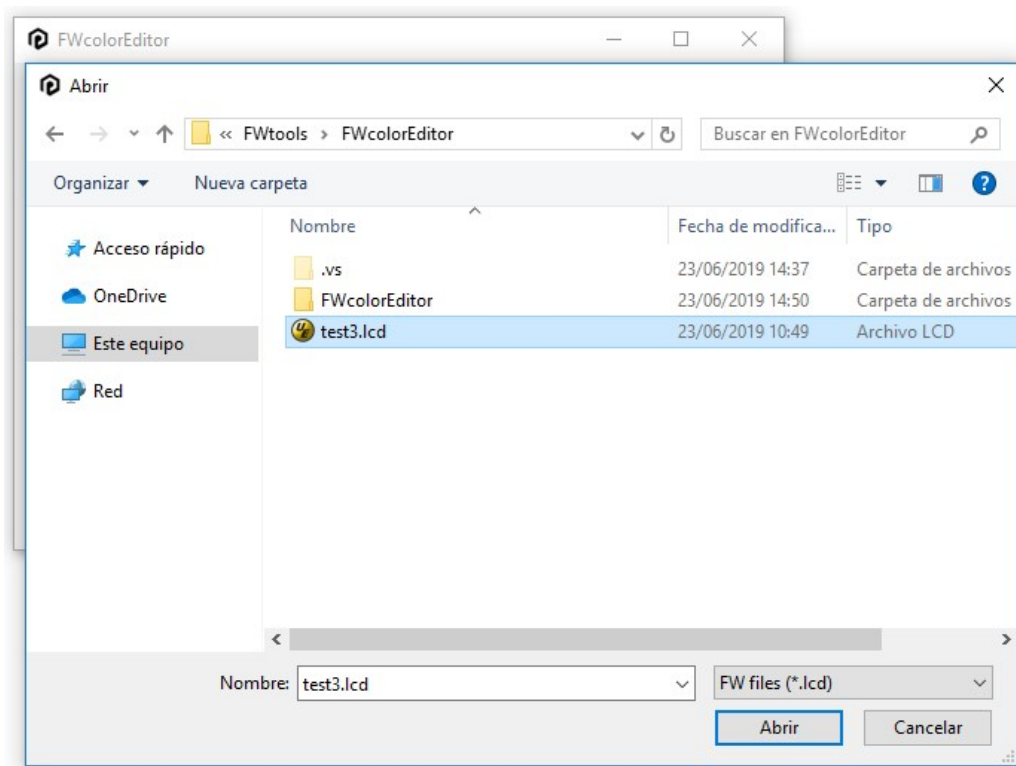
GUI

The software provides a graphic user interface to ease modification of the firmware colors:

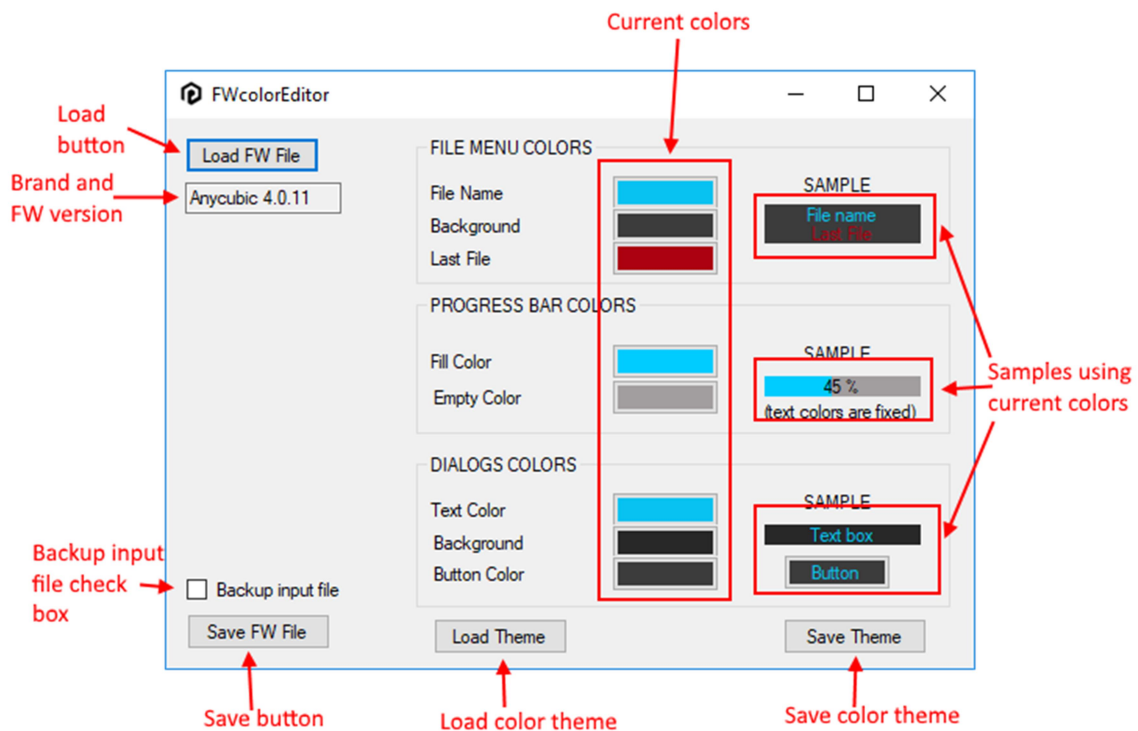


Usage

1.- Load a FW file by pressing "Load FW File" button and selecting the desired file using the file dialog:



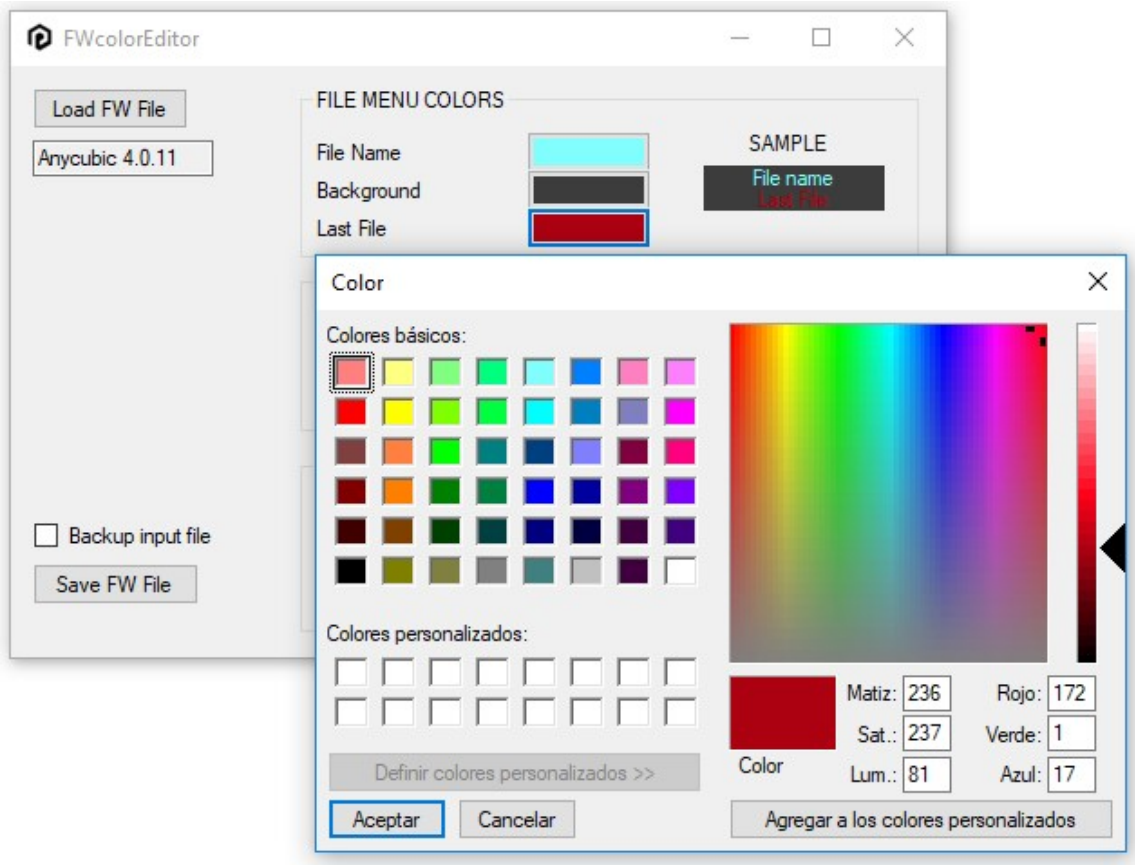
2.- If firmware version is supported the current colors are shown in the corresponding boxes and the “Save FW File” button is enabled:



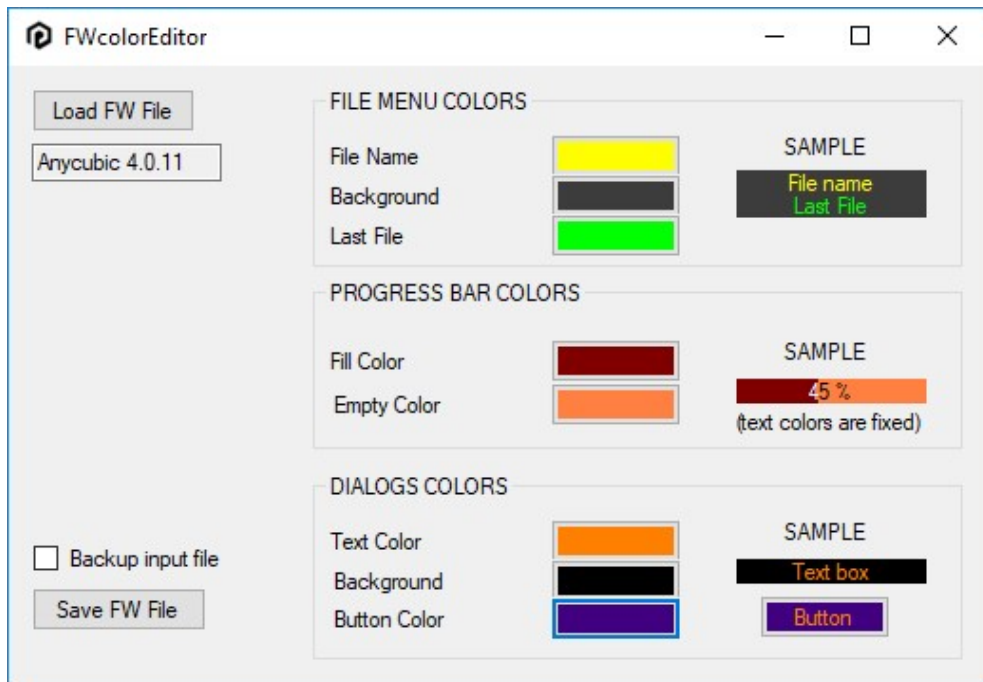
Note: Unsupported versions will not update shown colors and will show “Unsupported” in the version box.

Note: Some firmware versions do not allow modifying all the colors. Unsupported colors are shown as “unknown” in its color box.

3.- If a known version is loaded colors can be edited by pressing the corresponding color rectangle, selecting the desired new color and pressing OK:

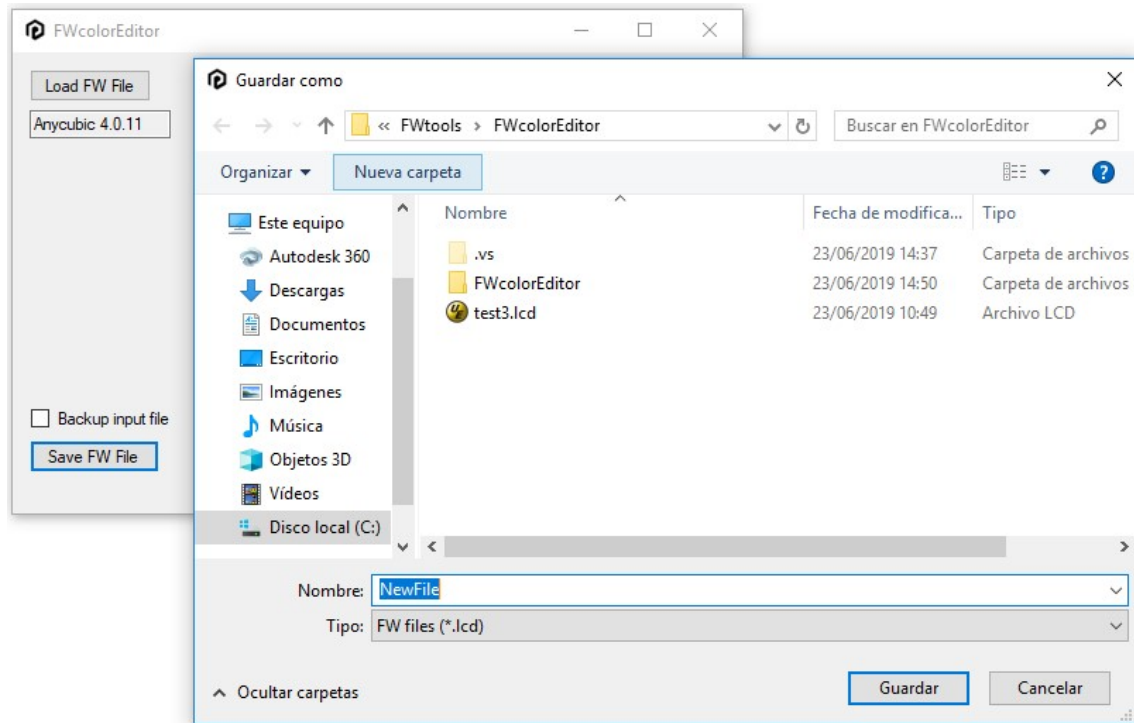


4.- The modified colors are shown in the application boxes and samples are updated:



Note: Due to LCD differences the colors won't exactly match the ones that will be displayed in the printer.

5.- Once all the desired colors have been changed, a new FW file can be generated by pressing “Save FW file” button. If the “Backup input file” box is checked the input file is copied to <input file name>.OLD. This allows overwriting input file while keeping a copy of original file (but note that if you repeat this procedure the copied file will be overwritten!):

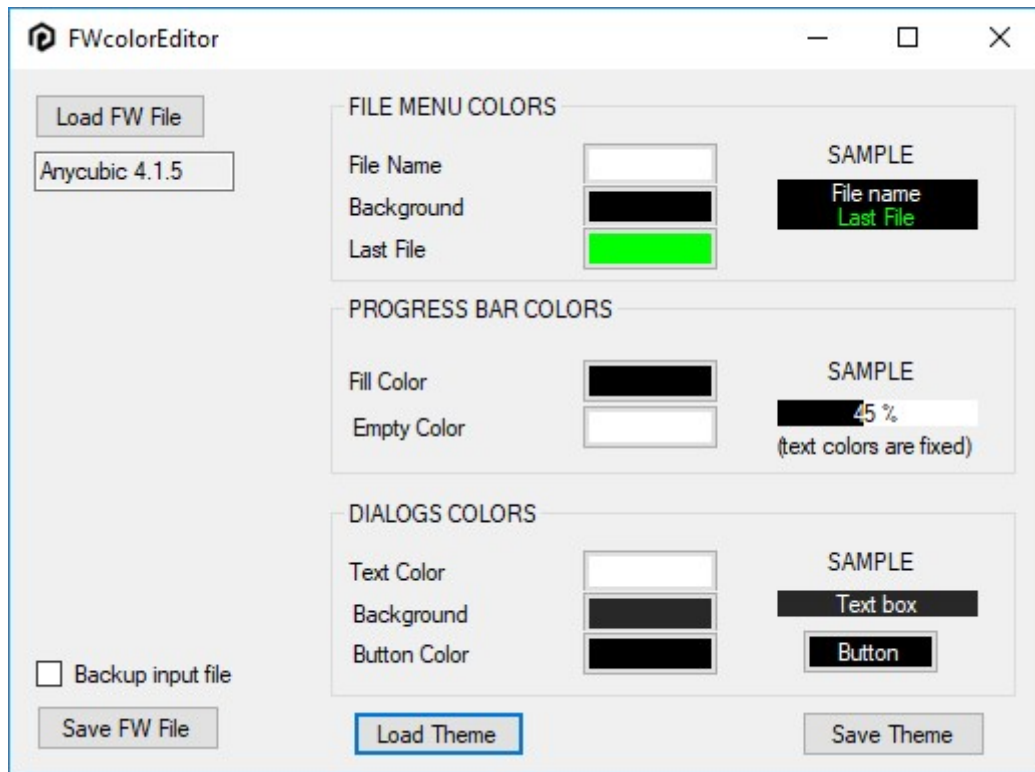


Note: To update the printer the FW file must be named “update.lcd” and placed in the root folder of the USB drive.

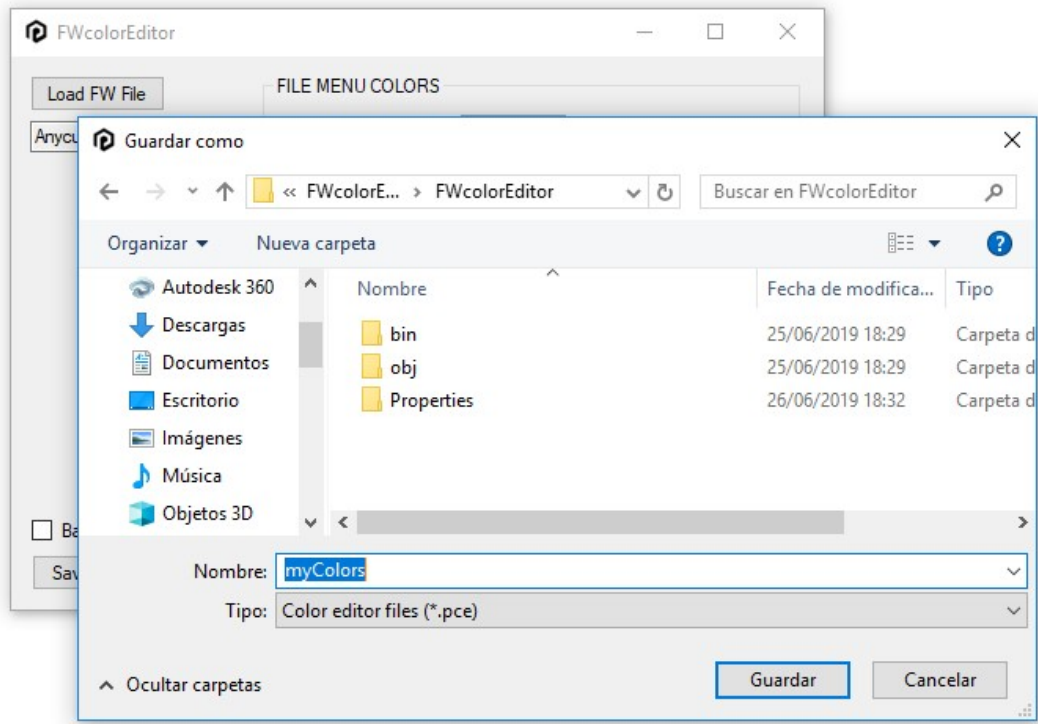
Using Themes

The application allows saving customized colors to be used on later releases of the FW without having to edit all the colors again.

- 1.- Set the desired colors by loading a FW file and editing the colors (or load a customized FW file with the wanted colors already set):



2.- Save the colors to a *.pce file (Photonsters Color Editor) for later usage by pressing “Save Theme” button:



Note: “Save Theme” button is only enabled if a FW file or a theme file has been loaded.

Note: It is not necessary to save a FW file to save the changed colors into a theme file.

3.- At any point you can load a theme file (*.pce) by pressing “Load Theme” button and selecting the desired theme file.

Note: Invalid colors marked as unknown can’t be edited.

Supported versions

Currently the following versions are supported:

Brand	Version
Anycubic	4.0.11
Anycubic	4.1.0
Anycubic	4.1.3
Anycubic	4.1.5
Anycubic	4.2.1
Anycubic	4.2.2
Anycubic	4.2.3
Anycubic	4.2.5
Anycubic	4.2.10
Anycubic	4.2.12
Anycubic	4.2.14
Anycubic	4.2.15
Anycubic	4.2.17
Anycubic	4.2.18
Anycubic	4.2.19
Epax	4.2.13
Epax	4.2.15
Epax	4.2.16
Epax	4.2.17
Epax	4.2.18
Epax	4.2.23
Orbeat	4.2.12
Orbeat	4.2.14
Elegoo	4.2.7
Elegoo	4.2.16
Phenom	4.2.22 (2.8)
Phenom	4.2.23 (2.9)

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