

Flash Express Guide

Programming Main Monitor Code

1. Installation

1-1. Introduction

Flash Express is the application software for downloading and flashing the firmware to [boland](#) Multi-Format Video Monitors.

It has a very easy and interactive interface to download and verify.

1-2. Supported OSes

Windows 98 / NT / XP / Windows 7

1-3. Download Interface

RS-232 Serial com port, null modem connection (cross-over)

1-4. UART Port Configuration

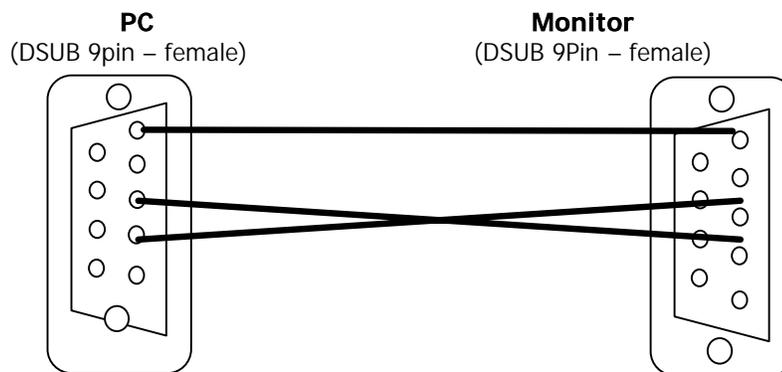
Baud rate: 115200 bps

Data bit: 8bit

Stop bit: 1bit

Parity bit: None

1-5. Cable Configuration (Serial Crossover)

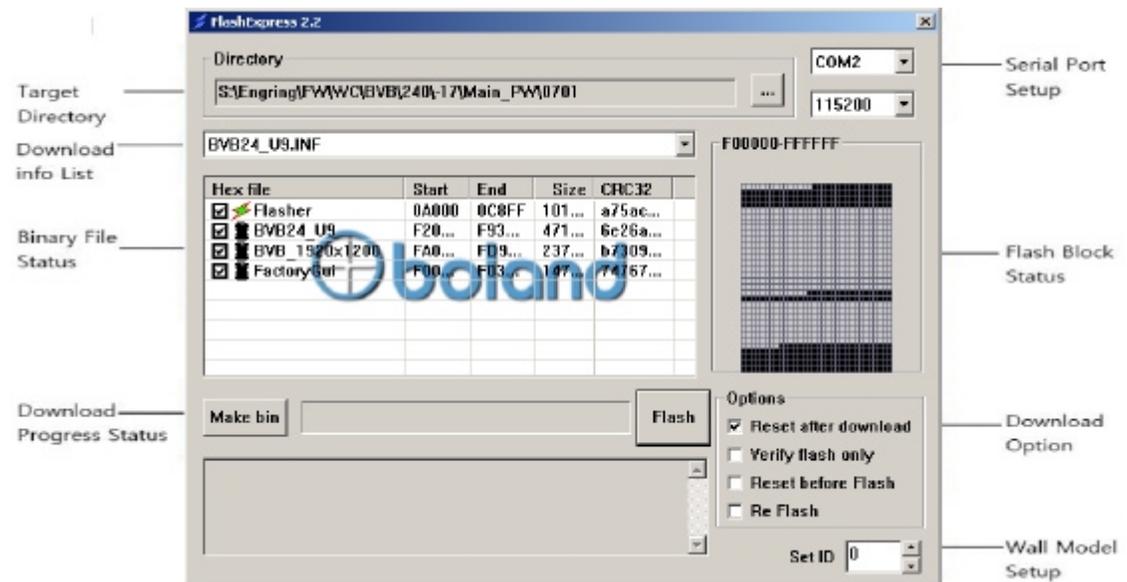


1-6. Typical File Names

File Name	Description
FlashExpress.exe	Flash Express executive file (Runs to do updates commanded in .inf file) (page 3)
flashExpress.inf	Flash Express configuration info file
flasher.hex	Flash write hex file
<model>.hex	Main software hex file
<model,res>.hex	Panel resolution driver hex file
FactoryGui.hex	Factory GUI resource hex file
<model>.inf	Files to be updated info file

2. Functions

Flash Express shows status of file transfers as shown below.



2-1. Target Directory

Select directory folder for firmware HEX to download.

2-2. Download Info List

Select download info list for specific HEX files to download
All_Latinus.INF : All files in list will be written.

2-3. Binary File Status

Display firmware HEX files to download
Flash Express will not download boxes not checked.

2-4. Download Progress Status

Shows progress and result of downloading.

Click Flash button to start transfer [with monitor Power off, click Flash button, Powering-On will start transfer]
(When the monitor powers up after pressing the Flash button, downloading starts).

2-5. Serial Port PreSetup

Setup UART serial ports.
Select serial port to use from COM1 to COM4.
Select the baud rate of downloading (115200 only)

2-6. Flash Block Status

Shows blocks of writing, Black blocks are not written.
White blocks are to be written, Violet blocks show writing is finished.

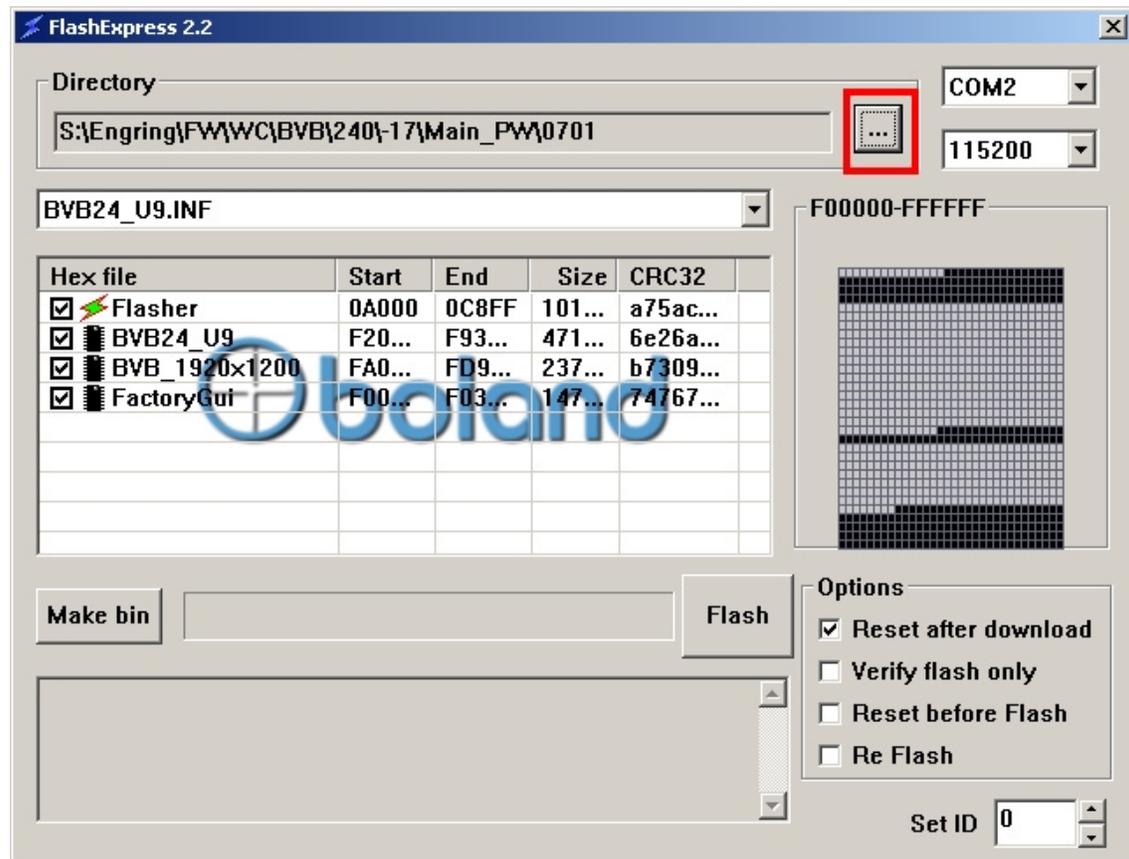
2-7. Option

Setup Options for writing.
Reset after target download – Reset target after download finished.
Reset before Flash – Reset target before download initiated. [Power on mode]

3. Firmware Update

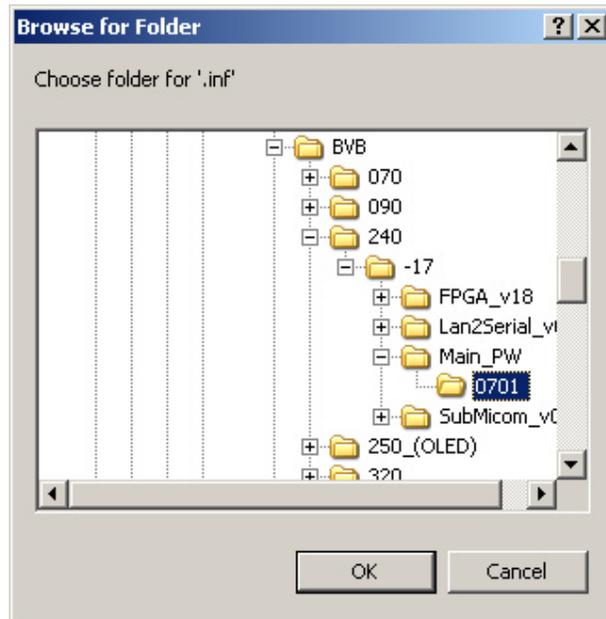
3-1. Execute Flash Express

Start FlashExpress.exe and press ... button to navigate to the target directory folder.



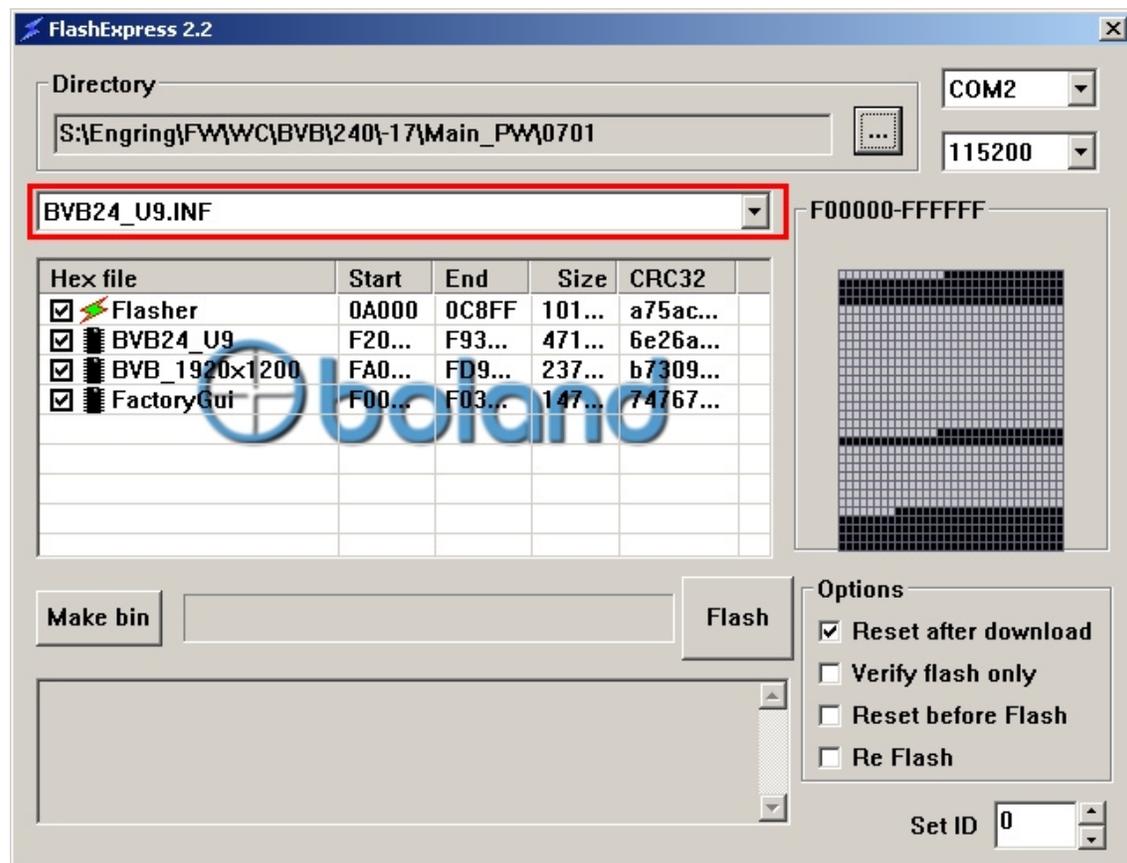
3-2. Select Target Directory

Select directory where firmware and downloaded info files are located (or your temporary location from receiving the email) and press OK.



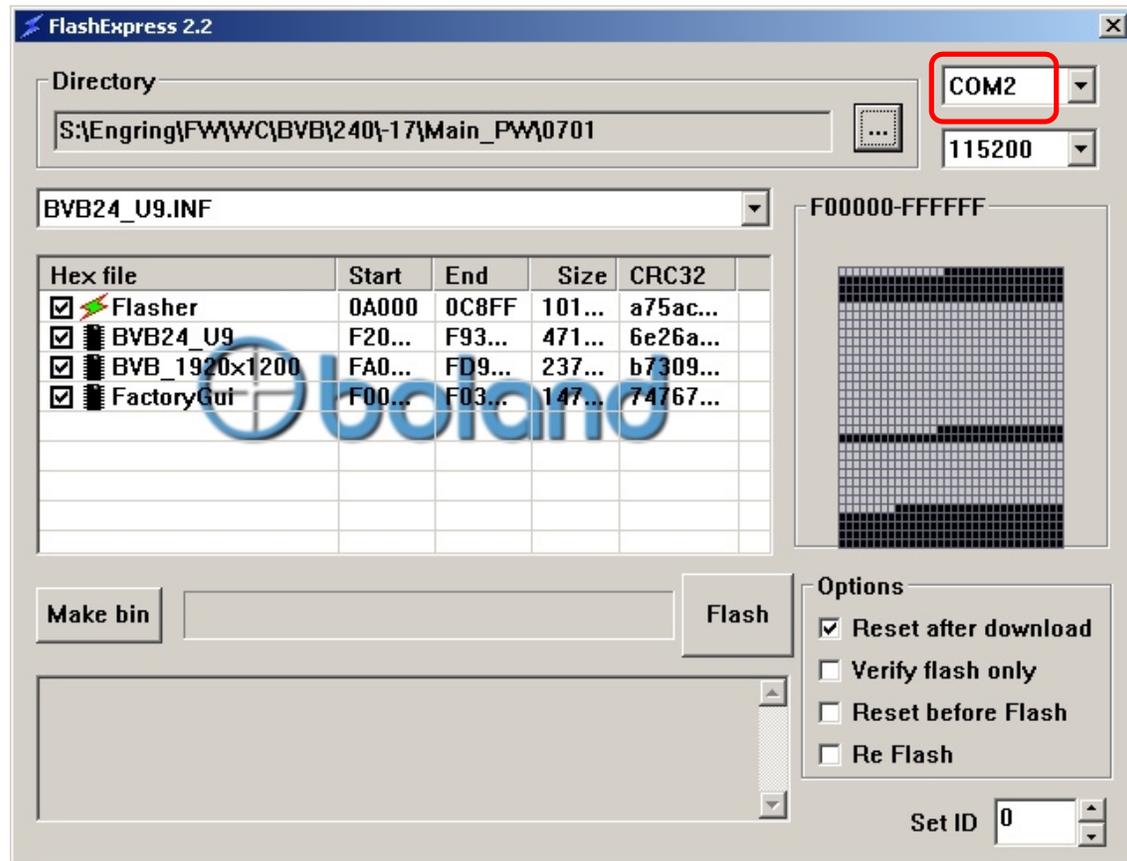
3-3. Select Download Info

Press the down arrow in the Download Info List (red) box button. Flash Express will show the hex files to be downloaded. [BVB24_U9.inf in the example shown.]



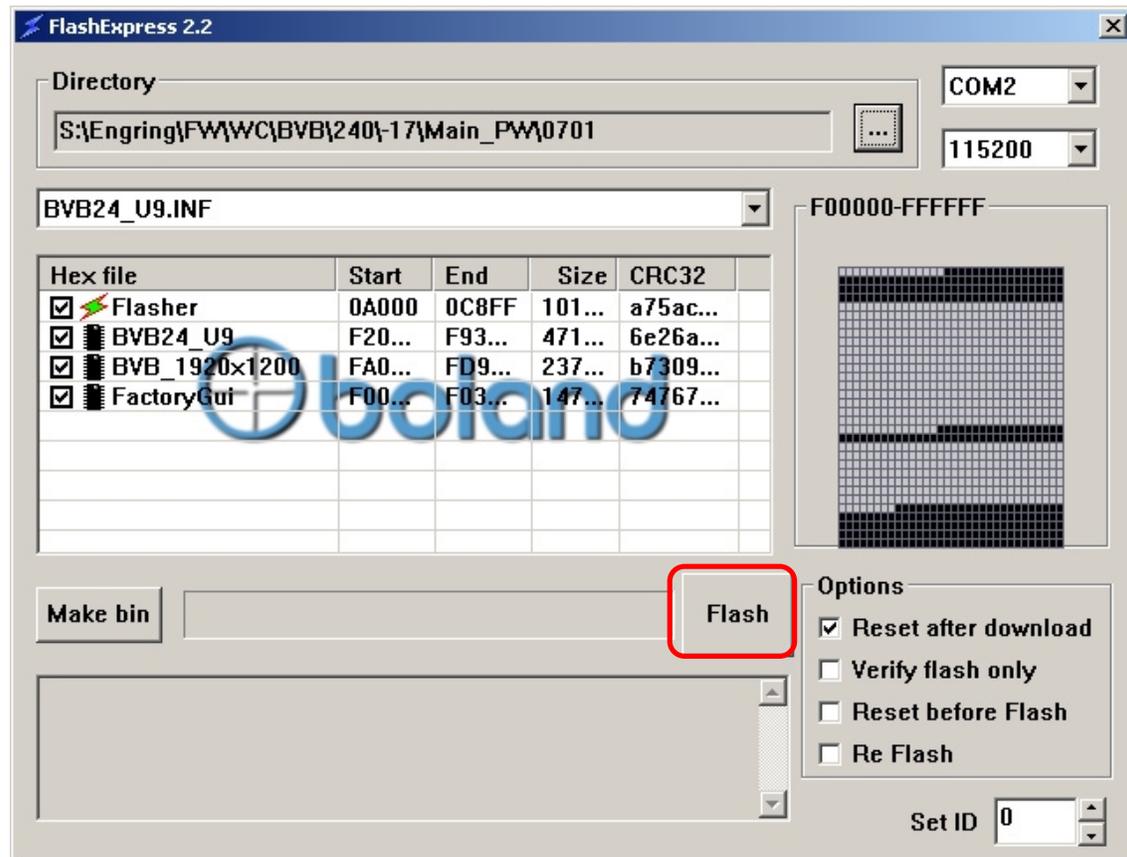
3-4. Setup Serial Port

Drop down the Com Port box and select the serial port you are connecting to from your PC. Flash Express will display available ports.



3-5. Press "Flash" Button

Press the "Flash" button when ready to download. Flash Express will be waiting for the monitor to power up.



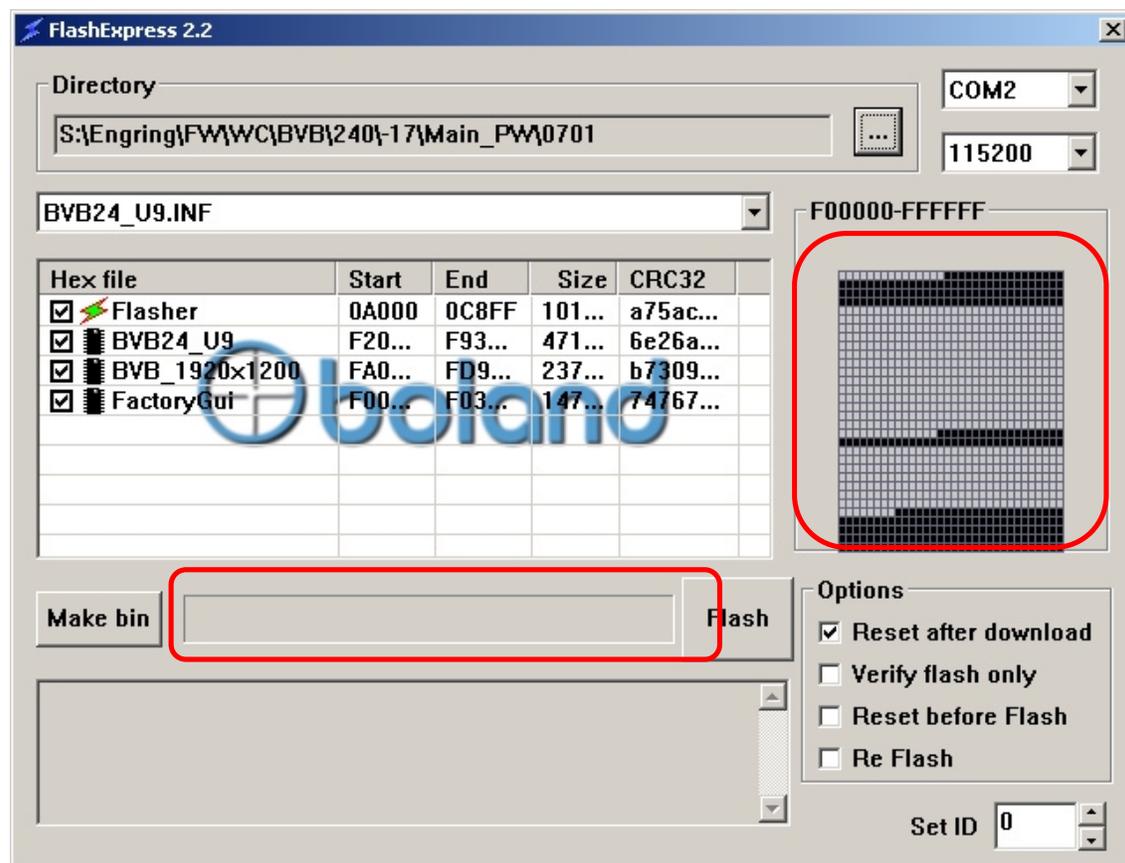
3-6. Power on the Monitor

Power on monitor to start boot-up. If booting-up is successful, Flash Express will start flashing.

3-7. Flashing Firmware

As the download proceeds, the screen below will display the progress of downloading as blocks to be written and the result of download each file.

If flashing transfer needs to be canceled, press the "Cancel" button.



3-8. Finished Flashing

If Flash Express shows all files were successful, monitor will reboot after downloading is finished.

