

Flash Express Guide

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 Crosever)



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</model>	Main software hex file
<model,res>.hex</model,res>	Panel resolution driver hex file
FactoryGui.hex	Factory GUI resource hex file
<model>.inf</model>	Files to be updated info file

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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.

🗲 FlashExpress 2.2						×			
Directory S:\Engring\FW\WC\BVB\	240\-17\	Main_PW	4 0701			COM2			
BVB24_U9.INF	BVB24_U9.INF								
Hex file ✓ Flasher ✓ BVB24_U9 ✓ BVB_1920×1200 ✓ FactoryGui									
Make bin				Fla	ash A	Options ✓ Reset after download ✓ Verify flash only ← Reset before Flash ← Re Flash Set ID 0 ★			

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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.

Browse for Folder	<u>? ×</u>
Choose folder for '.inf'	
	BVB ⊕ 070 ⊕ 090 ⊕ 17 ⊕ FPGA_v18 ⊕ E BYB
	OK Cancel

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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.]

1	FlashExpress 2.2						×
	Directory S:\Engring\FW\WC\BVB\	240\-17\M	Main_PW	\ 0701			COM2 - 115200 -
	BVB24_U9.INF						F00000-FFFFFF
	Hex file ✓ Flasher Ø BVB24_U9 Ø BVB_1920x1200 Ø FactoryGui	Start 0A000 F20 FA0	End 0C8FF F93 FD9 F03	Size 101 471 237 147	CRC32 a75ac 6e26a b7309 74767		
	Make bin				FI	ash A	Options ✓ Reset after download ✓ Verify flash only ← Reset before Flash ← Re Flash Set ID 0 ★

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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.

📁 FlashExpress 2.2				×
Directory S:\Engring\FW\WC\BVB\	COM2 • 115200 •			
BVB24_U9.INF	•	F00000-FFFFFF		
Hex file ✓ Flasher ✓ BVB24_U9 ✓ BVB_1920×1200 ✓ FactoryGui				
Make bin	 	 Fla	ash A	Options Reset after download Verify flash only Reset before Flash Re Flash Set ID 0

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3-5. Press "Flash" Button

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

🗲 FlashExpress 2.2						×				
Directory S:\Engring\FW\WC\BVB\2	Directory S:\Engring\FW\WC\BVB\240\-17\Main_PW\0701									
BVB24_U9.INF					-	F00000-FFFFFF				
Hex file ✓ Flasher ✓ BVB24_U9 ✓ BVB_1920×1200 ✓ FactoryCut										
Make bin				Fla	ash A	Options Reset after download Verify flash only Reset before Flash Re Flash Set ID 0				

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3-6. Power on he 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.

Directory COM2 ▼ S:{Engring{FW}WC\BVB\240\-17\Main_PW\0701 115200 ▼ BVB24_U9.INF ▼ Hex file Start End Size CRC32 BVB24_U9 F20 F93 471 6e26a BVB_1390x1200 FA0 F09 237 b7309 BVB_FactoryLui F00 F03 147 74767 BractoryLui F00 F03 F03 P00 BractoryLui F	🗲 FlashExpress 2.2				×
BVB24_U9.INF Hex file Start End Size CRC32 Flasher OA000 0C8FF 101 a75ac BVB24_U9 F20 F93 471 6e26a BVB_1920x1200 FA0 FD9 237 b7309 FactoryGut F00 F03 147 74167 FactoryGut F00 F03 147 74167 Make bin FactoryGut For the second se	Directory S:\Engring\FW\WC\BVB\	СОМ2 - 115200 -			
Hex file Start End Size CRC32 Image: Start End Size CRC32 Image: Start End Size CRC32 Image: Start Fasher 0A000 0C8FF 101 a75ac Image: Start Fasher DA000 FA0 FD9 237 b7309 Image: Start FactorySui F00 F03 147 74767 Image: Start F00 F03 F03 F03 Image: Start F03 F03 F03 F03 Image: Start F03 F03 F03	BVB24_U9.INF	•	F00000-FFFFFF		
Make bin Flash Options Image: Control of the second s	Hex file ✓ Flasher ✓ BVB24_U9 ✓ BVB_1920×1200 ✓ FactoryGui				
	Make bin	 	 F);	ash A	Options ▼ Reset after download ■ Verify flash only ■ Reset before Flash ■ Re Flash

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3-8. Finished Flashing

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

FlashExpress 2.2 Directory S:\Engring\FW\W	C/BVB\2	40\-17\M	ain_PW	0701			СОМ2	× •			
BVB24_U9.INF	3VB24_U9.INF										
Hex file ✓ Flasher ✓ ■ BVB24_U9 ✓ ■ BVB_1920 ✓ ■ FactoryGui	Hex file Start End Size CRC32 ✓ Flasher 0A000 0C8FF 101 a75ac ✓ BVB24_U9 F20 F93 471 6e26a ✓ BVB_1920 FA0 FD9 237 b7309 ✓ BVB_1920 FA0 F03 147 74767										
Make bin Download succes [FactoryGui.hex] Download succes	ssful. ssful.				Flash	Options − Reset Verify Reset Reset S	after down flash only before Flas ish Get ID 0	load sh			