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Introduction

DICE Firmware Upgrade Application (DFUA) is a downloadable program that allows MediaBridge or FMRDS-USB Pro users to upgrade the firmware from their PC. Owners of these products must first register at: <http://register.diceelectronics.com>. The application will only work if the product is registered.

Currently the DFUA is applicable to the following Dice Electronics products:

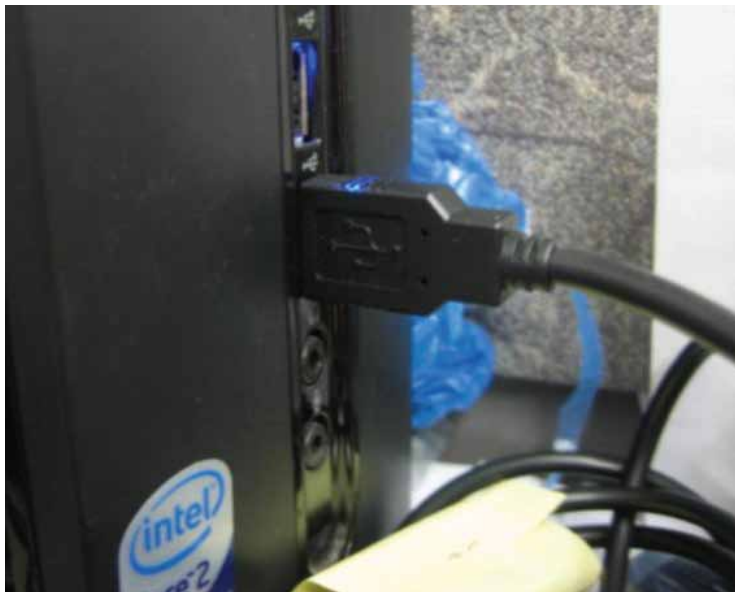
- Media Bridge MB1000 and MB1500
- FMRDS USB PRO

DFUA has 2 options to upgrade/downgrade firmware:

1. **From server:** DFUA fetches data from Dice server, compares it to current device firmware version and programs new firmware if needed
2. **From update file:** User selects file and DFUA programs the device with selected file data

Connecting the device

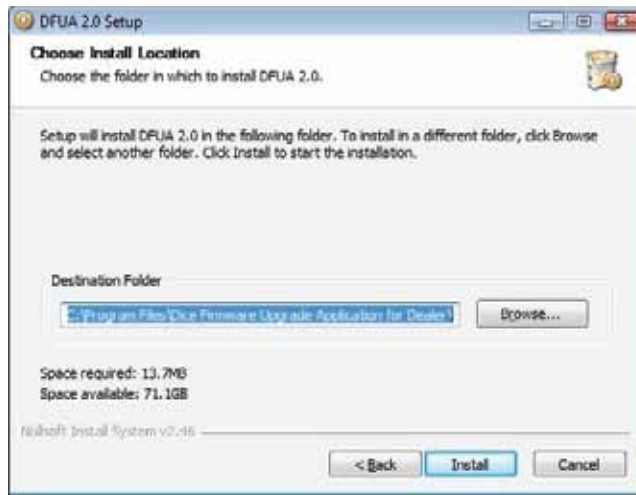
1. Connect the included USB (USB A/mini B) cable to a USB port on your PC and to the DICE module. No additional driver installation is required – Windows OS must detect module as HID-compliant device.



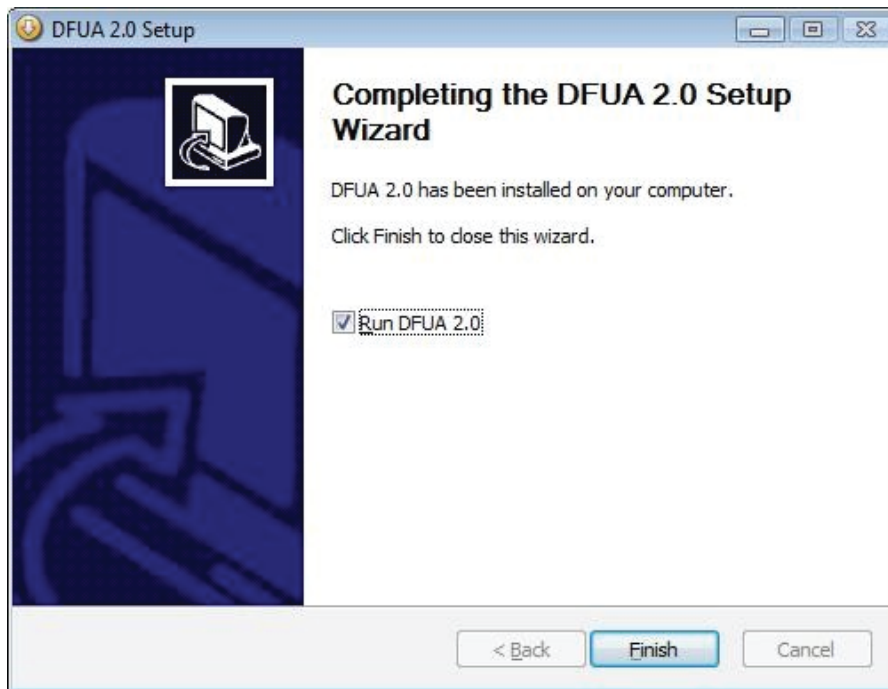
Installation

1.Run installation file: DFUA_Dealer_X.0_Setup.exe
Once Installer welcome Window appears, click *Next*.

2. Select destination folder and click *Install*.This will install DFUA and Microsoft .NET Framework, if it's not installed already.



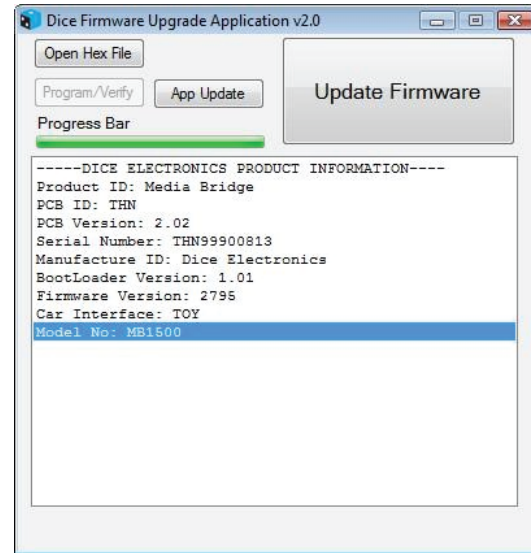
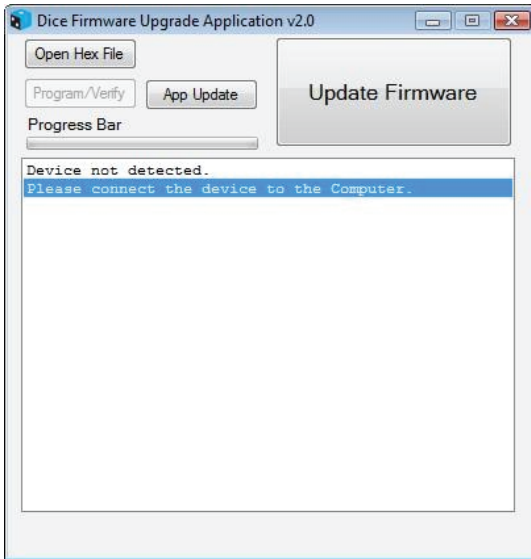
3. Click the *Finish* button to run Dice Firmware Upgrade Application.



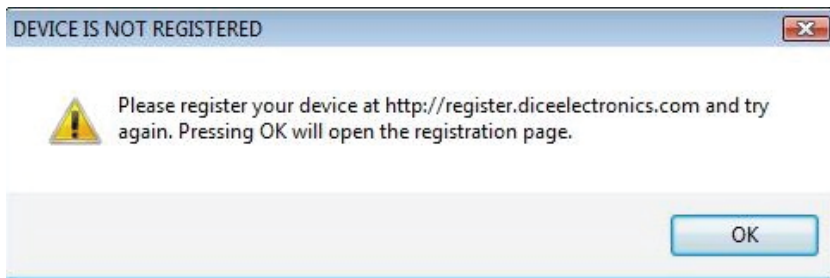
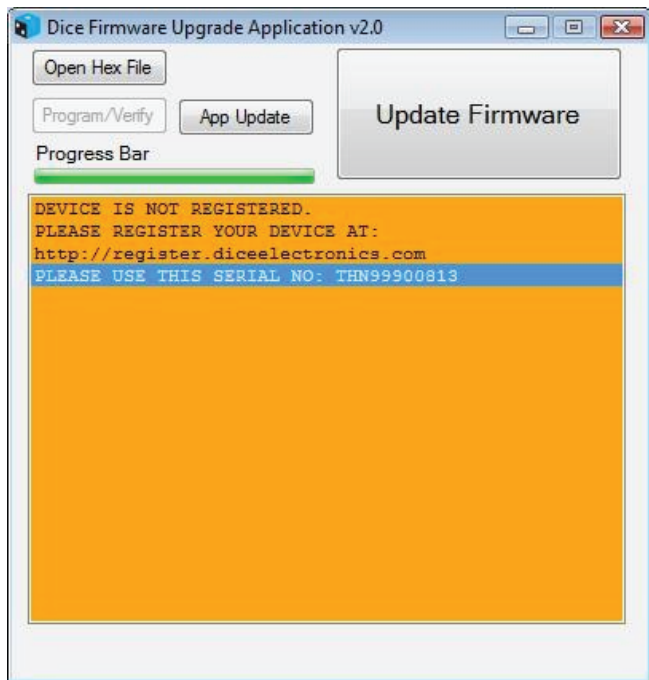
Product registration

1. Run the application by double clicking its icon from the location it was installed.

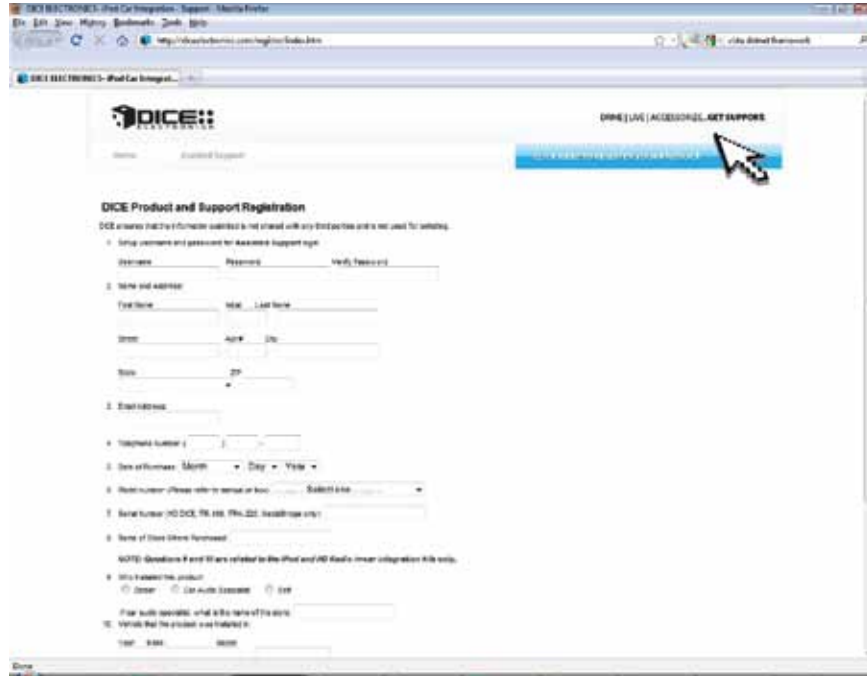
2. Connect the device to any available USB port (see *Connecting Device on pg.2*). DFUA will detect the device and print device system information on the screen. Click *Login* button.



3. “*DEVICE IS NOT REGISTERED*” message will pop up, if device was not registered before. Press the *OK* button to visit the DICE Registration page.



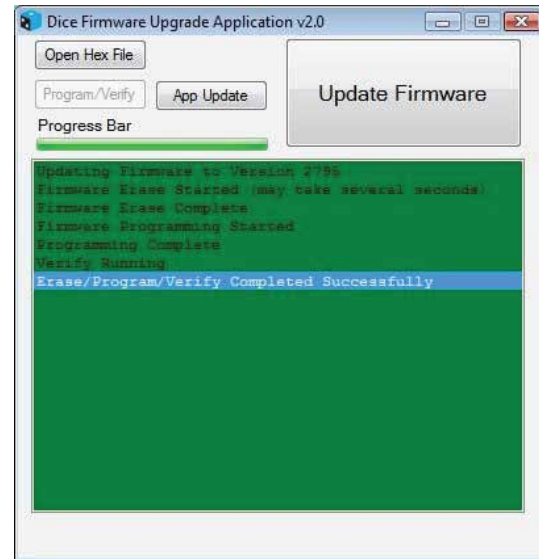
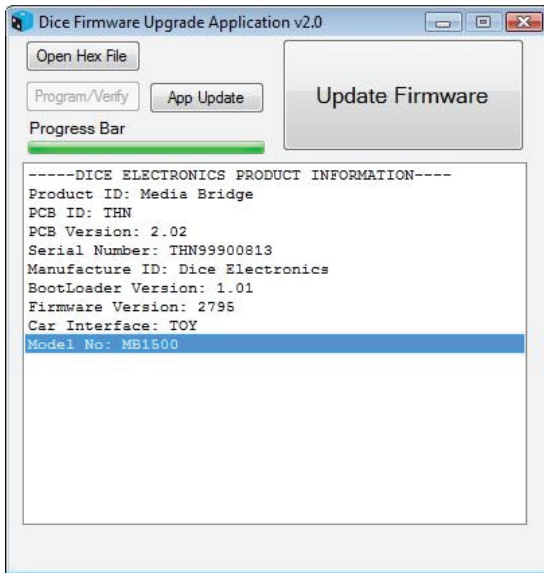
4. Please register your device. NOTE: Please don't forget to enter your device serial number, failing to do so will cause DFUA to show “*DEVICE NOT REGISTERED*” message and you will be required to register your device again.



Updating Device Firmware From Server

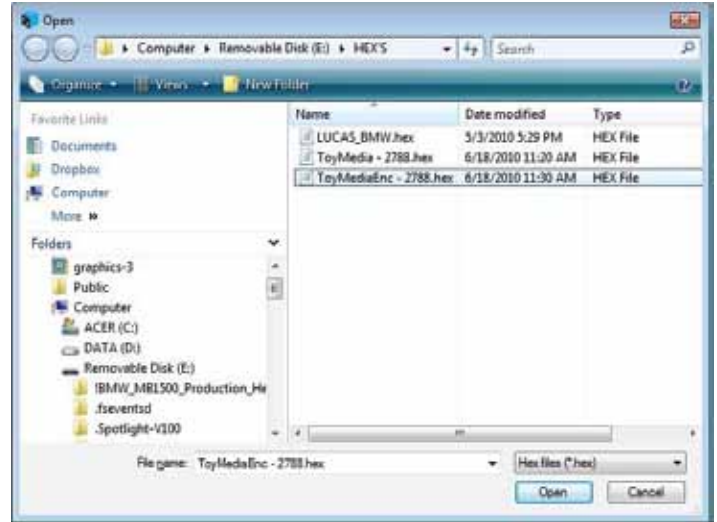
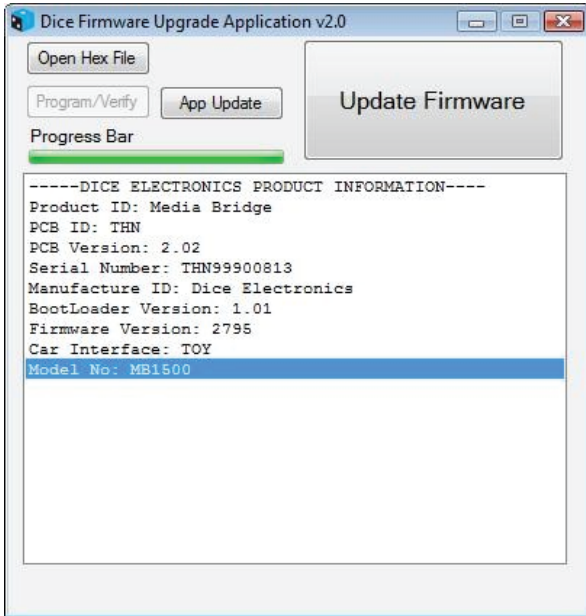
1. Make sure device is connected and you are logged in, then press *Update Firmware* button.

2. DFUA will fetch firmware data from server and program it. Green screen will indicate successful firmware update.

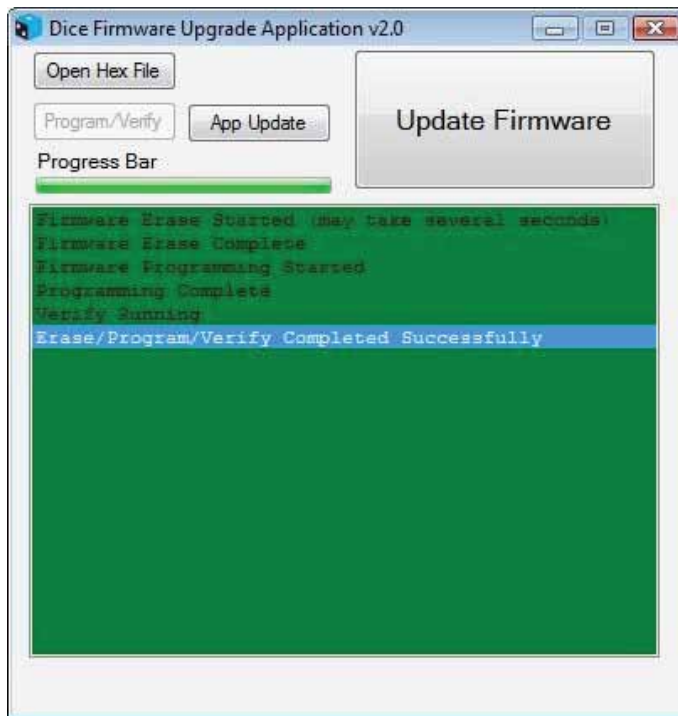


Updating Device Firmware From File

1. Make sure device is connected and you're logged in, then press *Open Hex File* button.
2. Browse for the firmware hex file you would like to program.

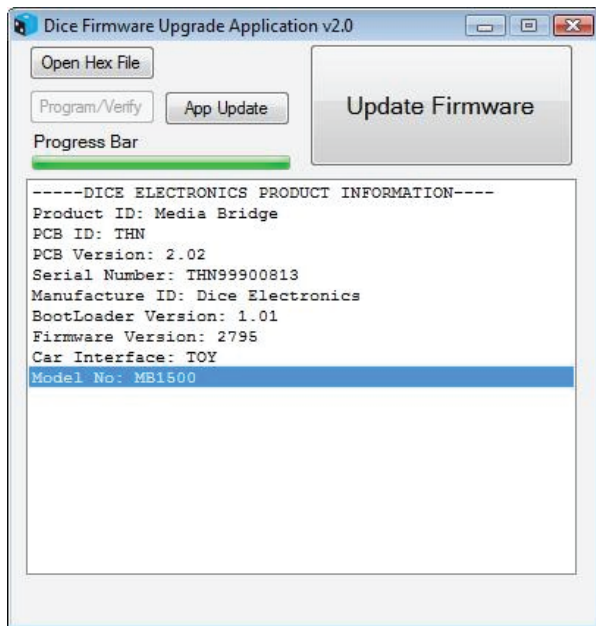


3. Press PROGRAM/VERIFY button. DFUA will program the device with firmware file data. Green screen will indicate successful firmware update.

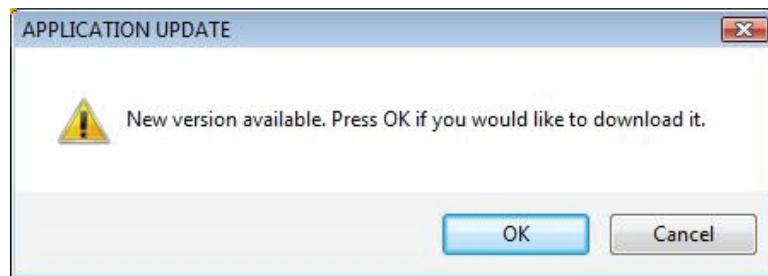


Updating “Dice Firmware Upgrade Application(DFUA)”

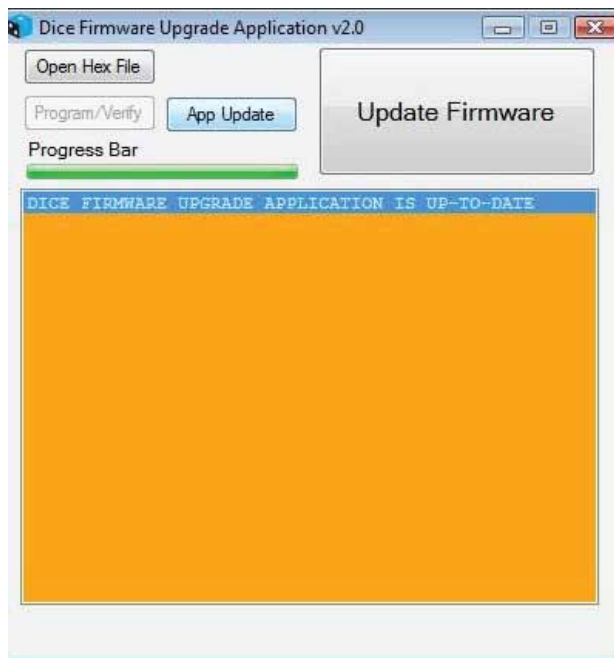
1. Make sure device is connected and you are logged in, then press the *App Update* button.



2. If new version of DFUA is available, please proceed and press the *OK* button. This will open your default internet browser and start downloading the new DFUA installation file. Install new DFUA version (*see installation instructions on pg.3*)



3. If no new DFUA version is available, the application will indicate this by changing screen color to yellow and displaying following message: *DICE FIRMWARE UPGRADE APPLICATION IS UP-TO-DATE*



NOTE: The module will not retain settings (gain, charging times, text display, etc...) after a firmware update. Settings will have to be reset manually.