

## FLEX 4ML Upgrade Guide

FLEX 4ML package firmware can be upgraded by XTOOL . Install XTOOL V1.0.1.6 and above software version first, then connect FLEX 4ML with PC by serial cable or net cable and follow upgrade guide to do update.

### 1. Connection:

#### 1.1. Upgrade by net cable: Use net cable to connect FLEX 4ML Ethernet port with PC .



Figure1: Net Cable



Figure2: FLEX 4ML Ethernet port

#### 1.2. Upgrade by serial cable: Joint RJ11 to RS232 serial cable with the USB to RS232 serial cable and connect FLEX 4ML RS232 port with PC USB port. USB port connects to computer and RJ11 port connect to the RS232 port of FLEX 4ML.



Figure3: Serial Cable



Figure4: FLEX 4ML serial port

2. Turn on FLEX 4ML, wait till it working properly.
3. Open XTOOL. If the language of the interface is not English, click the “语言” button to switch language.



4. Connection setting: click “Connection” button to get further connection setting. Serial connection: select "serial communication" and choose the corresponding serial number. Baud rate is set to "115200", click "OK".

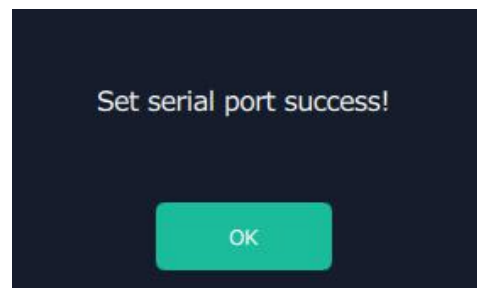
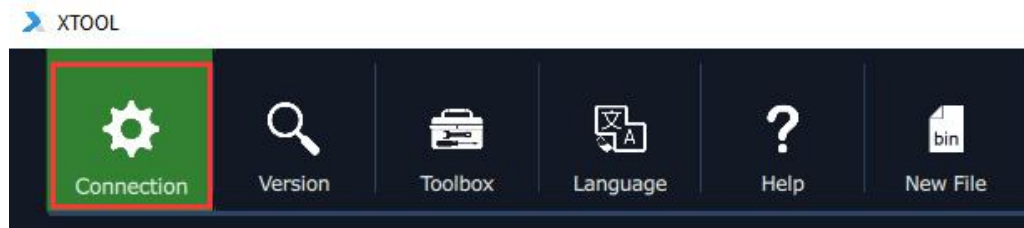
**Remark:** If it not show the COM port, please install the driver at first.

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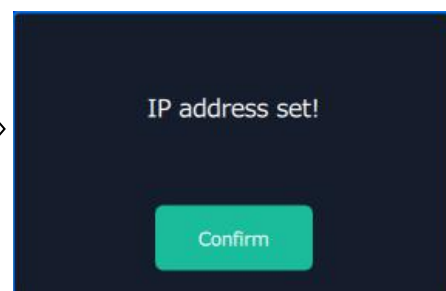
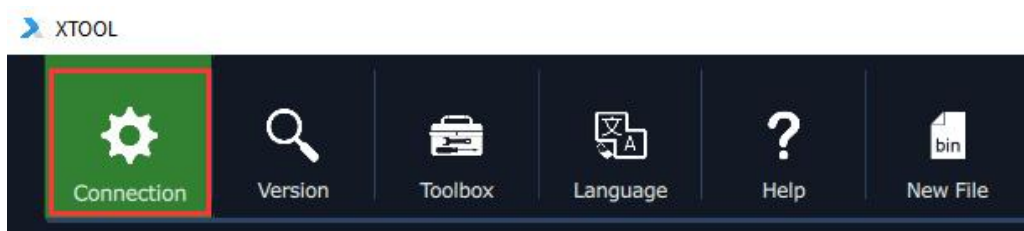
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4.1. Net connection: select “Net Comm” and set up FLEX 4ML IP as requirement:



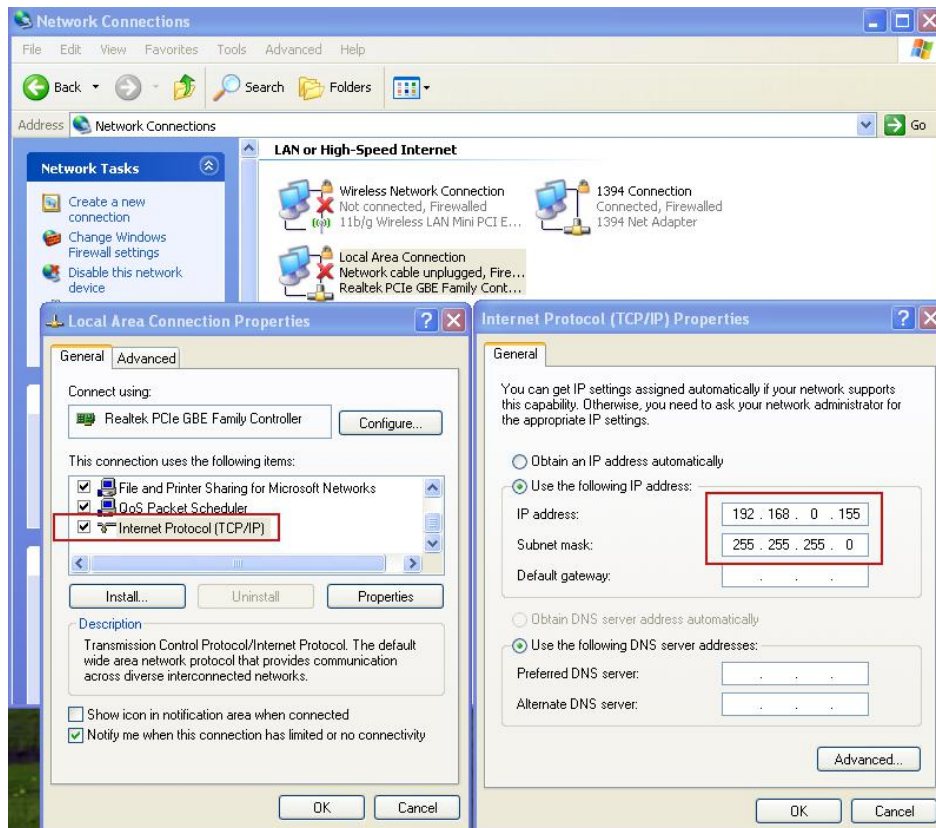
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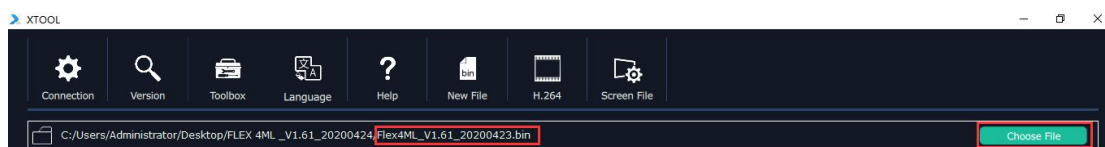
**Remark:** Before upgrade, the PC's IP should be set at the same IP segment (Flex16 Default IP:192.168.0.100, Mask: 255.255.255.0). As the picture show below, for example the PC IP set as 192.168.0.155:



5. Check the device information when connection is done. When the dot behind “Connection Status” is green, meaning it’s connecting. Contrarily, it’s unconnected when it’s red. We also need to check the serial number is consistent.



6. Select upgrade file. Click the “Choose File” button, Load the xx.bin file.



## 7. Upgrade priority

After file loading, it will list the firmware contents. Please upgrade FLEX 4ML under the priority below

- (1) Upgrade the font and keypad firmware when user need to update the initialized logo. (**Generally no need to upgrade font and keypad firmware**)

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| All                                 | File Name       | Type  | ID | New Version |
|-------------------------------------|-----------------|-------|----|-------------|
| <input checked="" type="checkbox"/> | Keypad.bin      | Mcu   | 9  | 1.11        |
| <input checked="" type="checkbox"/> | COM_MAIN.bin    | Mcu   | 0  | 1.61        |
| <input checked="" type="checkbox"/> | IN4K60_FPG.xsvf | Fpga  | 92 | 3.08        |
| <input checked="" type="checkbox"/> | IN4K60_VID.xsvf | Video | 4  | 1.25        |
| <input checked="" type="checkbox"/> | 40x48.DZK       | Font  | 0  | 1.00        |
| <input checked="" type="checkbox"/> | 4ML_LOGO.bin    | Font  | 1  | 1.00        |
| <input checked="" type="checkbox"/> | ICON_total.bin  | Font  | 2  | 1.00        |

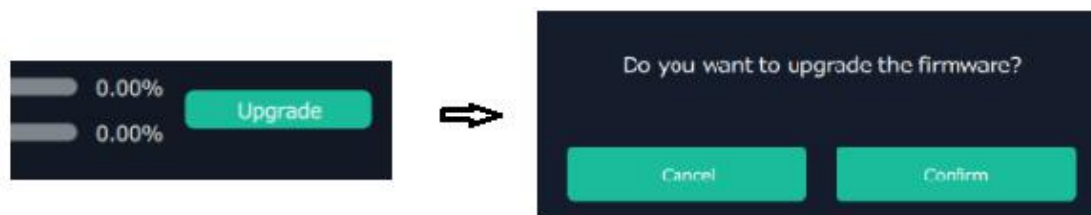
(2) For FLEX 4ML equipped 4k input cardd please upgrade 4k VIDEO and FPGA firmware first.

| C:/Users/Administrator/Desktop/FLEX 4ML_V1.61_20200424/Flex4ML_V1.61_20200423.bin |                 |       |    |             |
|-----------------------------------------------------------------------------------|-----------------|-------|----|-------------|
| All                                                                               | File Name       | Type  | ID | New Version |
| <input checked="" type="checkbox"/>                                               | Keypad.bin      | Mcu   | 9  | 1.11        |
| <input checked="" type="checkbox"/>                                               | COM_MAIN.bin    | Mcu   | 0  | 1.61        |
| <input checked="" type="checkbox"/>                                               | IN4K60_FPG.xsvf | Fpga  | 92 | 3.08        |
| <input checked="" type="checkbox"/>                                               | IN4K60_VID.xsvf | Video | 4  | 1.25        |
| <input checked="" type="checkbox"/>                                               | 40x48.DZK       | Font  | 0  | 1.00        |
| <input checked="" type="checkbox"/>                                               | 4ML_LOGO.bin    | Font  | 1  | 1.00        |
| <input checked="" type="checkbox"/>                                               | ICON_total.bin  | Font  | 2  | 1.00        |

(3) Upgrade the remain MCU firmware, including 4k firmware,communication firmware and so on.

| C:/Users/Administrator/Desktop/FLEX 4ML_V1.61_20200424/Flex4ML_V1.61_20200423.bin |                 |      |    |             |
|-----------------------------------------------------------------------------------|-----------------|------|----|-------------|
| All                                                                               | File Name       | Type | ID | New Version |
| <input checked="" type="checkbox"/>                                               | COM_INPUT.bin   | Mcu  | 1  | 2.00        |
| <input checked="" type="checkbox"/>                                               | COM_OUTPUT.bin  | Mcu  | 2  | 2.00        |
| <input checked="" type="checkbox"/>                                               | IN_EXT-4.bin    | Mcu  | 21 | 1.58        |
| <input checked="" type="checkbox"/>                                               | EXT-6.bin       | Mcu  | 4  | 1.35        |
| <input checked="" type="checkbox"/>                                               | INPUT_4K60.xsvf | Mcu  | 23 | 1.43        |
| <input checked="" type="checkbox"/>                                               | Keypad.bin      | Mcu  | 9  | 1.11        |
| <input checked="" type="checkbox"/>                                               | COM_MAIN.bin    | Mcu  | 0  | 1.61        |
| <input checked="" type="checkbox"/>                                               | IN4K60_FPG.xsvf | Fpga | 92 | 3.08        |

8. Select the firmware need to upgrade and click “Upgrade”. Pop up a confirm box. Click “confirm” to start upgrading. Notice: Don’ t turn off the device and keep the wires connecting.



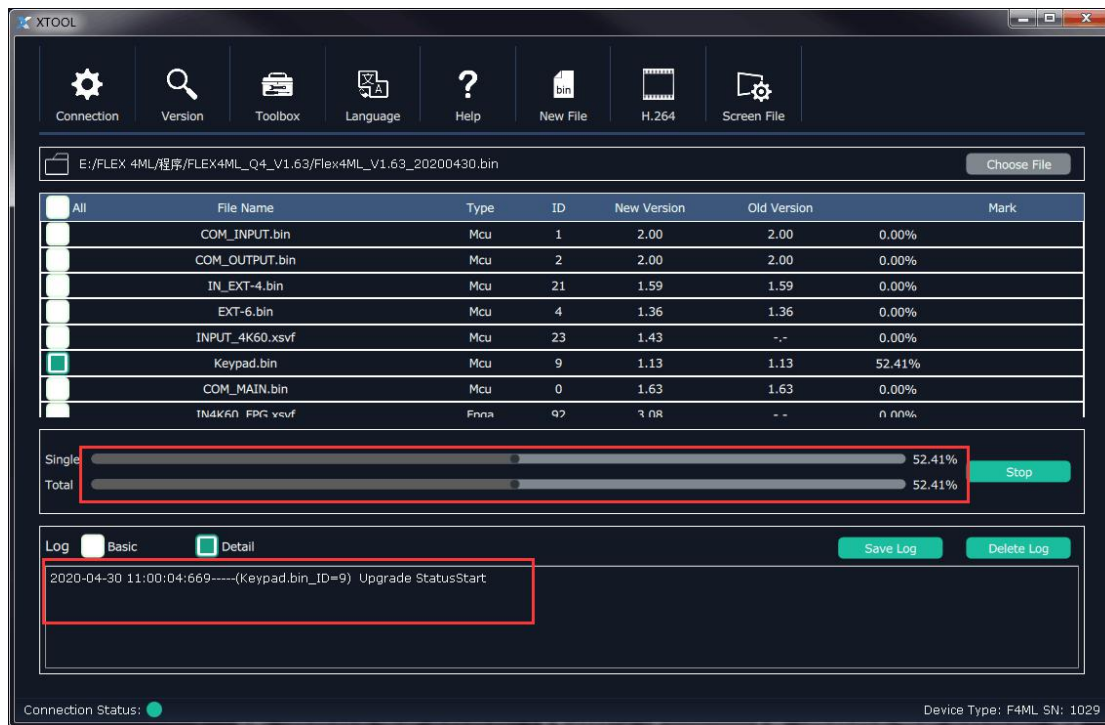
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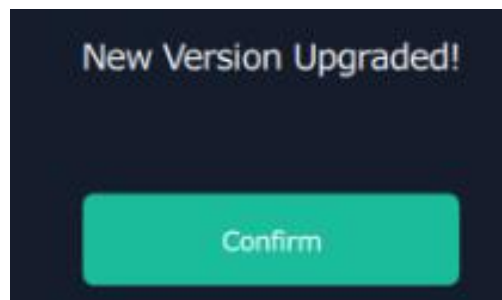
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9. check the progress from the “Log” list and the progress bar.



10. It will pop up “Update new version done!” after the upgrade finished. We need to restart device to complete the process.



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