ElecLab Display Firmware Update Guide

Prepare:

Windows PC

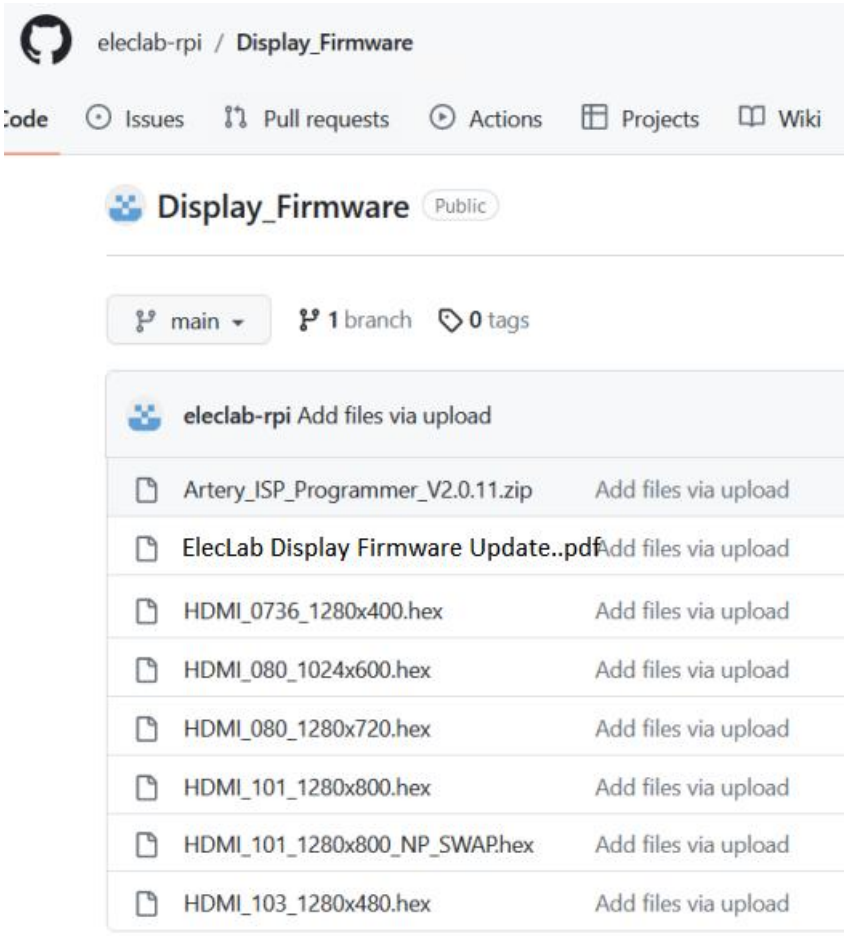
Tweezers

HDMI display

USB Type-c cable and HDMI cable

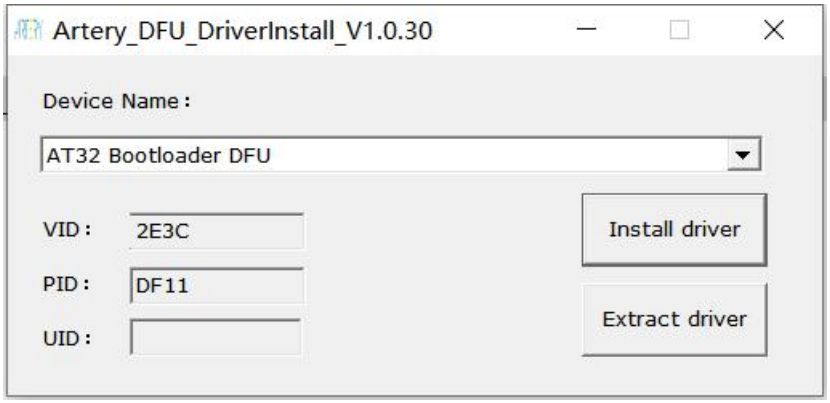
1.Download the upgrade tools and firmware from github

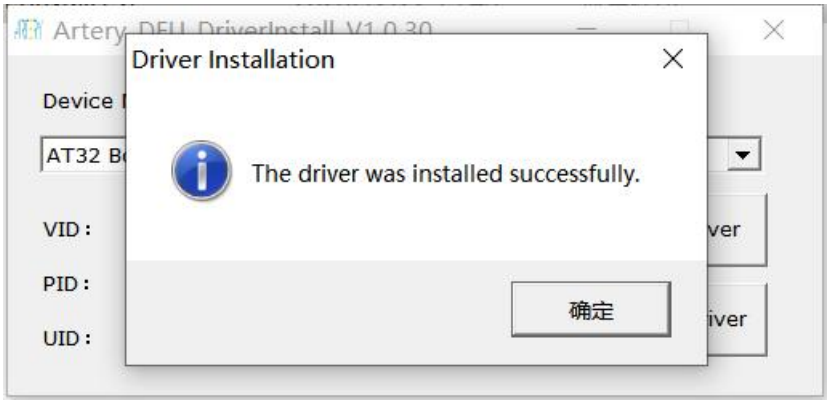
https://github.com/eleclab-rpi/Display_Firmware



2.Unzip Artery_ISP_Programmer_V2.0.11.zip

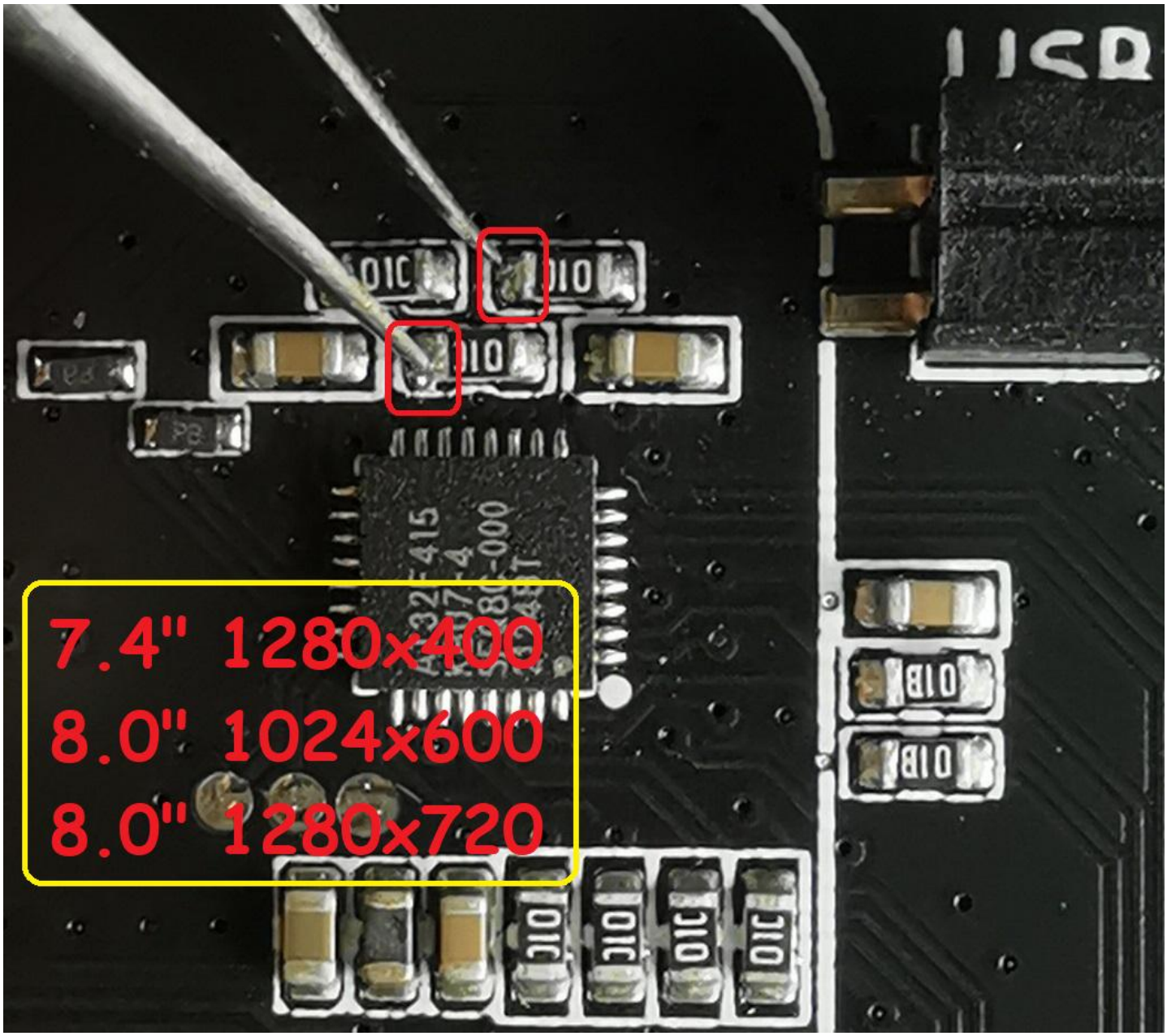
3. Install Artery_DFU_DriverInstall.exe

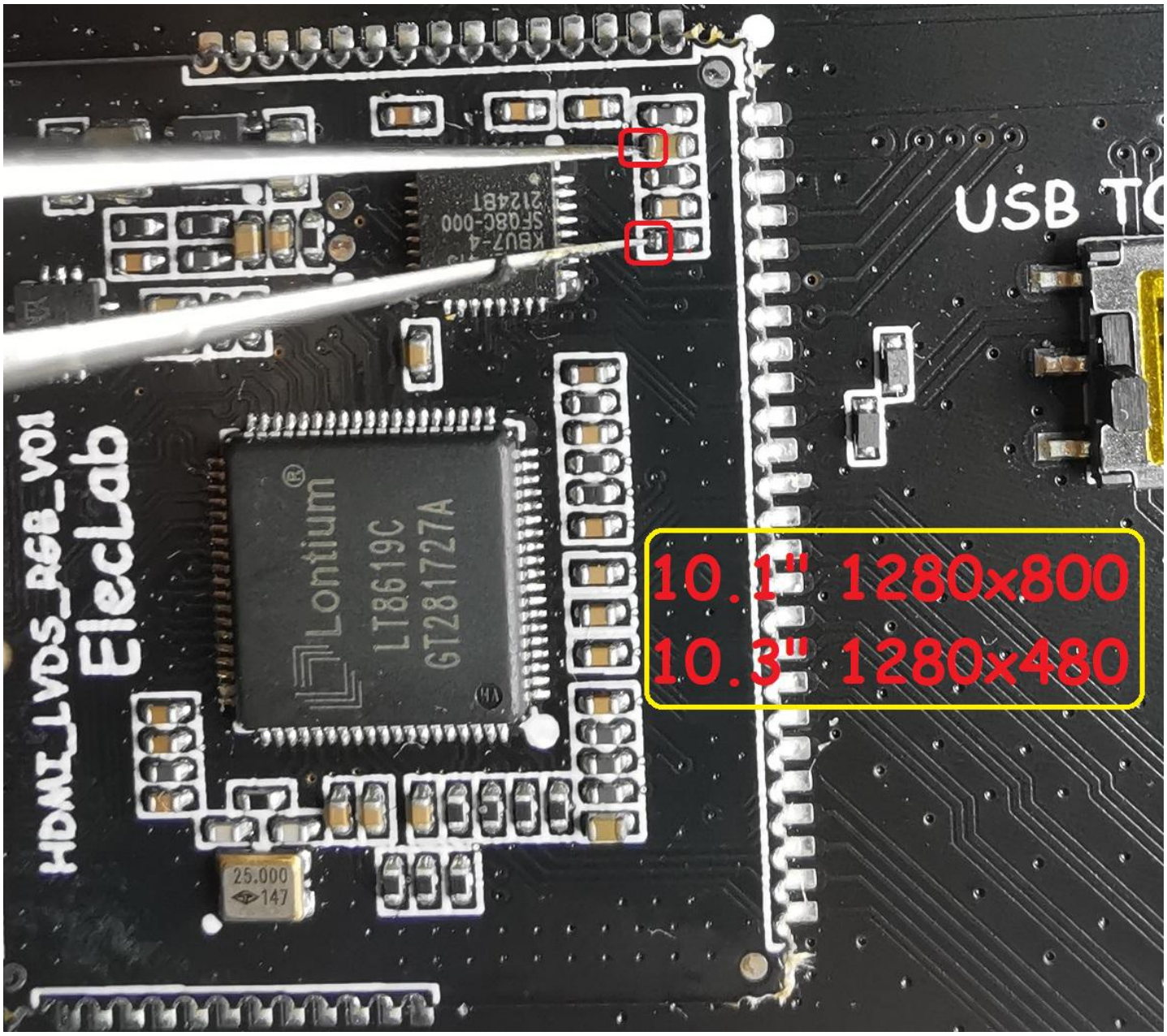


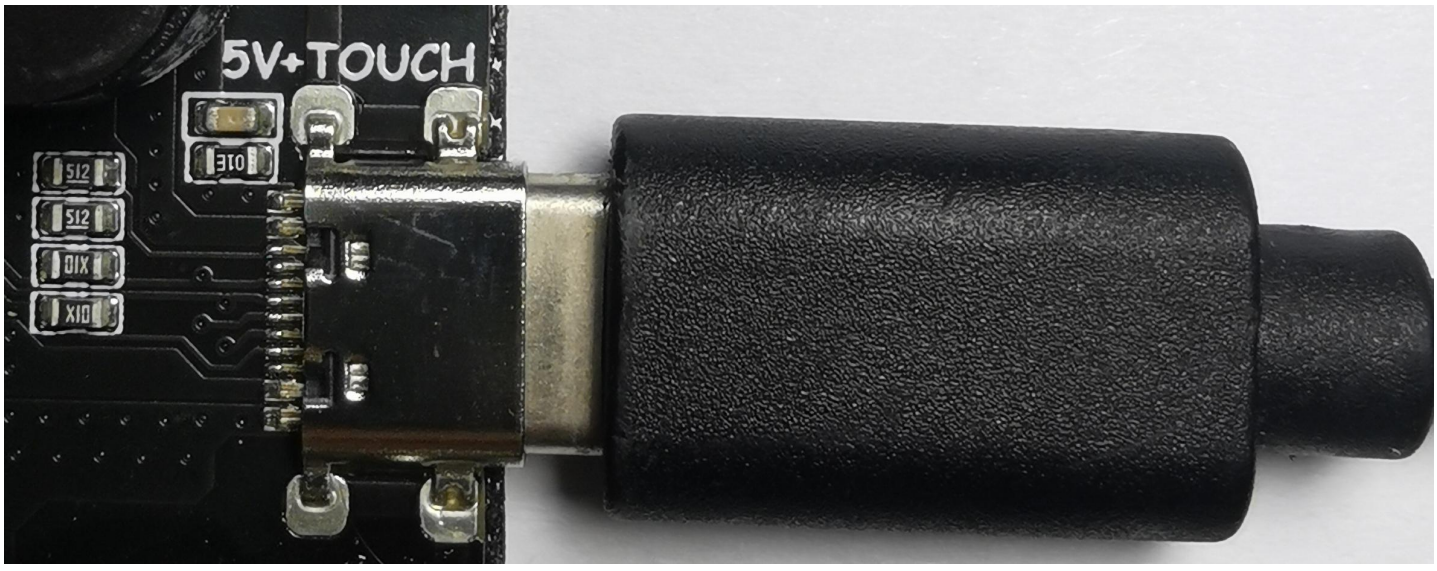


4. The display MCU enters download mode

1. Power off display
2. Use tweezers to short the MCU BOOT0 pin to 3.3V
3. Use a USB Type-c cable to connect the 5V+Touch port of the display to the PC


7.4" 1280x400
8.0" 1024x600
8.0" 1280x720

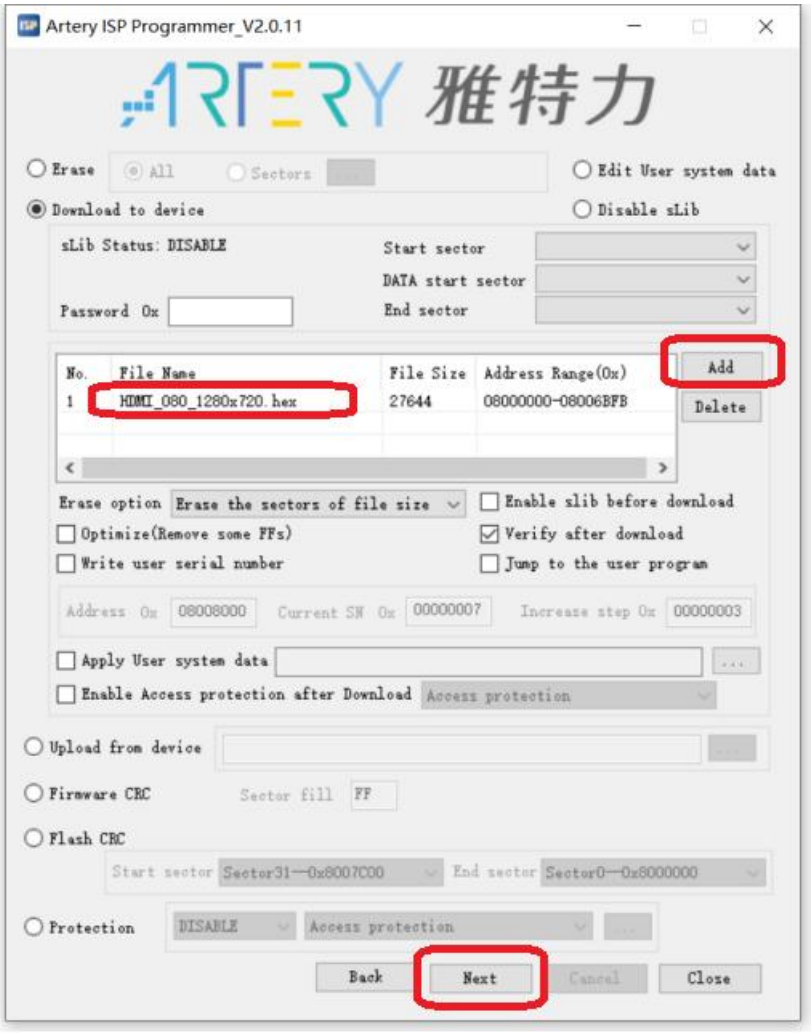

HDMI_LVDS_RGB_V01
ElecLab
Lontium
LT8619C
GT2817127A
25.000
147
USB TC
10.1" 1280x800
10.3" 1280x480


5V+TOUCH

5. Run ArteryISPProgrammer.exe


Artery ISP Programmer_V2.0.11
ARTERY 雅特力
The device is access protection, and the device will limit the use of some functions.
Flash Size 128 KB
Back
Next
Cancel
Close


Artery ISP Programmer_V2.0.11
ARTERY 雅特力
Please, select your device in the target list
Target AT32F415KBU7-4_128K
PID (h) 700301C6
BID (h) 4601
Protocol Version 3.2
SPIM
SPIM Type
Select
SPIM FLASH_DA 0x 0
Flash mapping
Name Start address End address Size FAP EPP
Sector0 0x08000000 0x080003FF 0x400(1K) N N
Sector1 0x08000400 0x080007FF 0x400(1K) N N
Sector2 0x08000800 0x08000BFF 0x400(1K) N N
Sector3 0x08000C00 0x08000FFF 0x400(1K) N N
Sector4 0x08001000 0x080013FF 0x400(1K) N N
Sector5 0x08001400 0x080017FF 0x400(1K) N N
Sector6 0x08001800 0x08001BFF 0x400(1K) N N
Sector7 0x08001C00 0x08001FFF 0x400(1K) N N
Sector8 0x08002000 0x080023FF 0x400(1K) N N
Sector9 0x08002400 0x080027FF 0x400(1K) N N
Y: Protected N: UnProtected
Back
Next
Cancel
Close


Artery ISP Programmer_V2.0.11
雅特力
Erase
All
Sectors
Edit User system data
Download to device
Disable sLib
sLib Status: DISABLE
Start sector
DATA start sector
Password 0x
End sector
No.
File Name
File Size
Address Range(0x)
1
HDMI_080_1280x720.hex
27644
08000000-08006BFB
Add
Delete
Erase option
Erase the sectors of file size
Enable slib before download
Optimize(Remove some FFs)
Verify after download
Write user serial number
Jump to the user program
Address 0x
08008000
Current SN 0x
00000007
Increase step 0x
00000003
Apply User system data
Enable Access protection after Download
Access protection
Upload from device
Firmware CRC
Sector fill
FF
Flash CRC
Start sector
Sector31—0x8007C00
End sector
Sector0—0x8000000
Protection
DISABLE
Access protection
Back
Next
Cancel
Close


Artery ISP Programmer_V2.0.11
雅特力
Target:
AT32F415KBU7-4_128K
Operation:
Verify
File Name:
H:\..\..\..\..\..\..\..\..\..\..\..\..I_080_1280x720.hex
File Size:
27644B
Status:
27644B
Erase
Running...
Download———(HDMI_080_1280x720.hex)
Running...
Verify———(HDMI_080_1280x720.hex)
Running...
Operation finished successfully!
Time:
00:00:02
100%
Back
Next
Cancel
Close