# Sonic Pad Firmware Burning Tutorial

(MacOS)

Version	V1.2
Date	2023/4/22
version record	V1.0 initial version
	V1.1 Chapter 4 Add Notes Before Burning
	V1.2 Add instructions for formatting and burning commands
	V1.3 firmware requirements:only
	t800-sonic_lcd-ab_1.0.6.48.55 and above version support
	MacOS burning
editor	

## Shenzhen Creality 3D Technology Co., Ltd

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#### 1. Tools

1. PhoenixSuit\_MacOS\_T800.zip

2. t800-sonic\_lcd\_uart0\_1.0.6.xx.xx.img (burning firmware, only version 1.0.6.48.55 or later supports MacOS burning)

3. Male to male USB cable

#### 2. Enter the burning mode

- 1. When the Sonic pad is turned off, insert the USB cable into the CAM port
- 2. Press and hold the FEL button on the right with a paper clip
- 3. Press the Power button to power on the Sonic pad, then the Sonic pad will enter the burning mode



#### 3. Sonic pad firmware burning

Notes before burning the firmware: Put the firmware that needs to be upgraded into the burning tool directory, connect the Sonic pad to the computer with a male-to-male USB cable, and then let the Sonic pad enter the burning mode. The specific steps are as follows:

3.1 Open the terminal and enter the tool directory, execute ./phoenixsuit t800-sonic\_lcd\_uart0\_1.0.\*.img



3.2 Sonic pad enters the burning mode, please refer to Chapter 2. The burning process is shown in the figure below:

• • • The provide the provided and the p ./phoenixsuit b00-sonic\_lcd\_uart0\_1.0.6.40.112.img  $\dot{\gamma}_{c}^{4}$  + progress 17%[TL\_MSG]:need verify:1,VBOOT-RESOURCE\_F [TL\_FEX]:400, 1ccc00 [TL\_MSG]:Verify:start = 0x400 ,size = 0x1ccc00 ,pc\_crc = 0xbd96d6e, media crc = 0xbd96d6e [TL\_MSG]:name = boot-resource1 addrhi=0x0 addrlo = 0x1400 lenhi = 0x0 lenlo = 0x1000 file = BOOT-RESOURCE1\_F, en=0 [TL\_MSG]:sparse: bad magic, it is NOT a sparse format part progress 28%[TL\_MSG]:need verify:1,VBOOT-RESOURCE1\_ [TL FEX]:1400, 1ccc00 [TL\_MSG]:Verify:start = 0x1400 ,size = 0x1ccc00 ,pc\_crc = 0x4260ac75, media crc = 0x4260ac75 [TL\_MSG]:name = env addrhi=0x0 addrlo = 0x2400 lenhi = 0x0 lenlo = 0x400 file = ENV\_FEX000000000, en=0,vf=1 [TL\_MSG]:sparse: bad magic, it is NOT a sparse format part progress 39%[TL\_MSG]:need verify:1,VENV\_FEX00000000 [TL\_FEX]:2400, 20000 [TL\_MSG]:Verify:start = 0x2400 ,size = 0x20000 ,pc\_crc = 0x149ceca1, media crc = 0x149ceca1 [TL\_MSG]:name = env-redund addrhi=0x0 addrlo = 0x2800 lenhi = 0x0 lenlo = 0x400 file = ENV\_FEX000000000, en=0,vf=1 [TL\_MSG]:sparse: bad magic, it is NOT a sparse format part progress 51%[TL\_MSG]:need verify:1,VENV\_FEX00000000 [TL\_FEX]:2800, 20000 [TL\_MSG]:Verify:start = 0x2800 ,size = 0x20000 ,pc\_crc = 0x149ceca1, media crc = 0x149ceca1 [TL MSG]:name = bootA addrhi=0x0 addrho = 0x2c00 lenhi = 0x0 lenho = 0x7800 file = BOOT FEX000000000, en=0,vf=1 [TL\_MSG]:sparse: bad magic, it is NOT a sparse format part progress 62%[TL\_MSG]:need verify:1,VBOOT\_FEX0000000 [TL\_FEX]:2c00, a76000 [TL\_MSG]:Verify:start = 0x2c00 ,size = 0xa76000 ,pc\_crc = 0xce5db4bd, media crc = 0xce5db4bd [TL\_MSG]:name = bootB addrhi=0x0 addrlo = 0xa400 lenhi = 0x0 lenlo = 0x7800 file = BOOT\_FEX00000000, en=0,vf=1 [TL\_MSG]:sparse: bad magic, it is NOT a sparse format part

progress 73%[TL\_MSG]:need verify:1,VBOOT\_FEX0000000 [TL\_FEX]:a400, a76000 [TL\_MSG]:Verify:start = 0xa400 ,size = 0xa76000 ,pc\_crc = 0xce5db4bd, media crc = 0xce5db4bd [TL\_MSG]:name = rootfsA addrhi=0x0 addrho = 0x11c00 lenhi = 0x0 lenho = 0x100000 file = ROOTFS\_FEX000000, en=0,vf= [TL\_MSG]:sparse: bad magic, it is NOT a sparse format part progress 84%

3.3 After the burning is completed, it will automatically restart after "progress 100% Burn Finish"

```
.
                                PhoenixSuit_MacOS — cxsw@cxsw — -zsh — 116×64
                                                    ..nixSuit MacOS
[TL_FEX]:a400. a76000
[TL_MSG]:Verify:start = 0xa400 ,size = 0xa76000 ,pc_crc = 0xce5db4bd, media crc = 0xce5db4bd
[TL_MSG]:name = rootfsA addrhi=0x0 addrlo = 0x11c00 lenhi = 0x0 lenlo = 0x100000 file = ROOTFS_FEX000000, en=0,vf=
[TL_MSG]:sparse: bad magic, it is NOT a sparse format part
progress 85%[TL_MSG]:need verify:1,VR00TFS_FEX00000
[TL_FEX]:11c00, 1a9a0000
[TL_MSG]:Verify:start = 0x11c00 ,size = 0x1a9a0000 ,pc_crc = 0x11df6cf0, media crc = 0x11df6cf0
[TL_MSG]:name = rootfsB addrhi=0x0 addrlo = 0x111c00 lenhi = 0x0 lenlo = 0x100000 file = ROOTFS_FEX000000, en=0,vf
[TL_MSG]:sparse: bad magic, it is NOT a sparse format part
 progress 96%[TL_MSG]:need verify:1,VR00TFS_FEX00000
[TL_FEX]:111c00, 1a9a0000
[TL_MSG]:Verify:start = 0x111c00 ,size = 0x1a9a0000 ,pc_crc = 0x11df6cf0, media crc = 0x11df6cf0
progress 96%[TL_MSG]:storge type is 2 (0:nand 1-2:card 3:spinor)
[TL MSG]:bootpackage mode : 4
[TL MSG]:save item to mem :(12345678,BOOTPKG-00000000) realLen(1015808)
[TL_MSG]:Verify: media crc = 0
[TL_MSG]:down uboot success!!!
progress 97%[TL_MSG]:storge type is 2 (0:nand 1-2:card 3:spinor)
[TL_MSG]:bootpackage_mode : 4
[TL_MSG]:save item to mem :(12345678,1234567890B00T_0) realLen(65536)
[TL_MSG]:Verify: media crc = 0
[TL_MSG]:down boot0 success!!!
progress 100%
Burn Finish;
[TL_MSG]:---fun end-----
-----Exit Called-
Closing image now!
Clos image OK!
[TL_MSG]:Tools Close Img ...
----fun end----
L302, Finished to call Tools.entry_fes_thread.
```

#### Remarks:

1. When the device cannot be started, please use the format and burn command, and all user data will be cleared.

Execute ./phoenixsuit t800-sonic\_lcd\_uart0\_1.0.\*.img c

2. When it fails to burn, it is stuck on the following interface, please follow the steps in Chapter 2 to re-enter the programming mode.

```
library file path: /Users/wuqi/Desktop/PhoenixSuit_MacOS_T800/LiveProc.Plg
-----SetLiveProc-----
```

```
library file path: /Users/wuqi/Desktop/PhoenixSuit_MacOS_T800/plgvector.dll
library file path: /Users/wuqi/Desktop/PhoenixSuit_MacOS_T800/luaeFex.dll
```

```
----OnImage-----
DeviceThreadEntryForMac called
Register./luaBase.dll 1_RegAllFun Sucess!
Register./luaeFex.dll 1_RegAllFun Sucess!
Register./luadec.dll 1_RegAllFun Sucess!
copy luatool from local
----enter sem_wait-----
```