

Choyong Radio Firmware Upgrade Tool

User Guide

Technical Support: Choyongradio@gmail.com

Choyong Radio Co., Ltd.

Version 1.0

2024/03/15

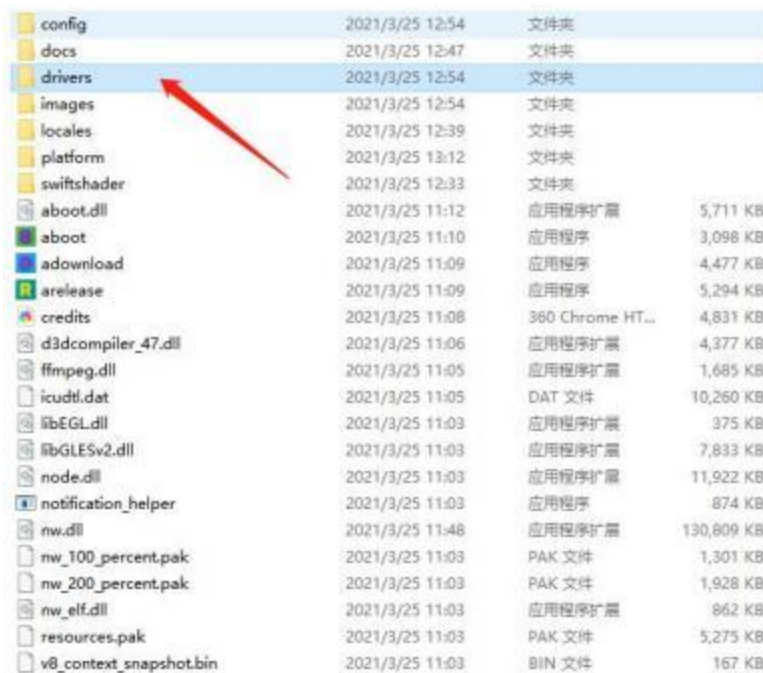
Step1: Tool Configuration Requirements

1. It is recommended to use a 64-bit Windows PC. The current version of this tool does not support the windows xp system, please avoid using it on windows xp system.
2. Upgrade tool zip file, the version of this tool is 2021.06.29.



Step2: Install the driver for the upgrade tool.

- 1、Open the “about-tools-2021.06.29-win-x64”
- 2、Click to open the drivers folder

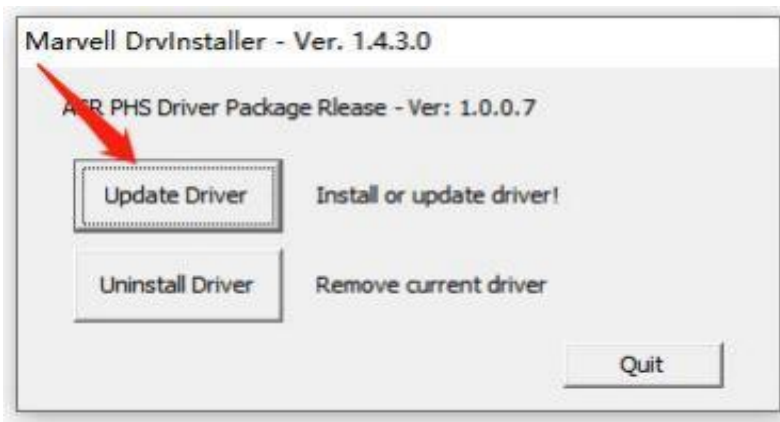
A screenshot of a file explorer window showing the contents of the 'about-tools-2021.06.29-win-x64' folder. The 'drivers' folder is highlighted with a red arrow.

config	2021/3/25 12:54	文件夹	
docs	2021/3/25 12:47	文件夹	
drivers	2021/3/25 12:54	文件夹	
images	2021/3/25 12:54	文件夹	
locales	2021/3/25 12:39	文件夹	
platform	2021/3/25 13:12	文件夹	
swiftshader	2021/3/25 12:33	文件夹	
aboot.dll	2021/3/25 11:12	应用程序扩展	5,711 KB
aboot	2021/3/25 11:10	应用程序	3,098 KB
adownload	2021/3/25 11:09	应用程序	4,477 KB
arelease	2021/3/25 11:09	应用程序	5,294 KB
credits	2021/3/25 11:08	360 Chrome HT...	4,831 KB
d3dcompiler_47.dll	2021/3/25 11:06	应用程序扩展	4,377 KB
ffmpeg.dll	2021/3/25 11:05	应用程序扩展	1,685 KB
icudtl.dat	2021/3/25 11:05	DAT 文件	10,260 KB
libEGL.dll	2021/3/25 11:03	应用程序扩展	375 KB
libGLSv2.dll	2021/3/25 11:03	应用程序扩展	7,833 KB
node.dll	2021/3/25 11:03	应用程序扩展	11,922 KB
notification_helper	2021/3/25 11:03	应用程序	874 KB
nw.dll	2021/3/25 11:48	应用程序扩展	130,809 KB
nw_100_percent.pak	2021/3/25 11:03	PAK 文件	1,301 KB
nw_200_percent.pak	2021/3/25 11:03	PAK 文件	1,928 KB
nw_elf.dll	2021/3/25 11:03	应用程序扩展	862 KB
resources.pak	2021/3/25 11:03	PAK 文件	5,275 KB
v8_context_snapshot.bin	2021/3/25 11:03	BIN 文件	167 KB

3、 Double-click the installation file of the 64-bit computer

 DrvInstaller_x64

and click the icon below in the pop-up prompt box.



4、 Click“安装”in the following pop-up box.



5、 The system will begin to automatically install the driver. After the installation is complete, a successful installation prompt box will pop up. Just click“确定”to complete the installation process

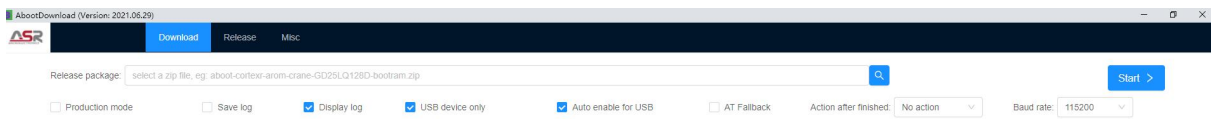


Step3、Upgrade Tool Usage Guide

1、In the following interface, double-click on "about" to run the Upgrade tool.

config	2021/3/25 12:54	文件夹	
docs	2021/3/25 12:47	文件夹	
drivers	2021/3/25 12:54	文件夹	
images	2021/3/25 12:54	文件夹	
locales	2021/3/25 12:39	文件夹	
platform	2021/3/25 13:12	文件夹	
swiftshader	2021/3/25 12:33	文件夹	
aboot.dll	2021/3/25 11:12	应用程序扩展	5,711 KB
aboot	2021/3/25 11:10	应用程序	3,098 KB
adownload	2021/3/25 11:09	应用程序	4,477 KB
arelease	2021/3/25 11:09	应用程序	5,294 KB
credits	2021/3/25 11:08	360 Chrome HT...	4,831 KB
d3dcompiler_47.dll	2021/3/25 11:06	应用程序扩展	4,377 KB
ffmpeg.dll	2021/3/25 11:05	应用程序扩展	1,685 KB
icudtl.dat	2021/3/25 11:05	DAT 文件	10,260 KB
libEGL.dll	2021/3/25 11:03	应用程序扩展	375 KB
libGLESv2.dll	2021/3/25 11:03	应用程序扩展	7,833 KB
node.dll	2021/3/25 11:03	应用程序扩展	11,922 KB
notification_helper	2021/3/25 11:03	应用程序	874 KB
nw.dll	2021/3/25 11:48	应用程序扩展	130,809 KB
nw_100_percent.pak	2021/3/25 11:03	PAK 文件	1,301 KB
nw_200_percent.pak	2021/3/25 11:03	PAK 文件	1,928 KB
nw_elf.dll	2021/3/25 11:03	应用程序扩展	862 KB
resources.pak	2021/3/25 11:03	PAK 文件	5,275 KB
v8_context_snapshot.bin	2021/3/25 11:03	BIN 文件	167 KB

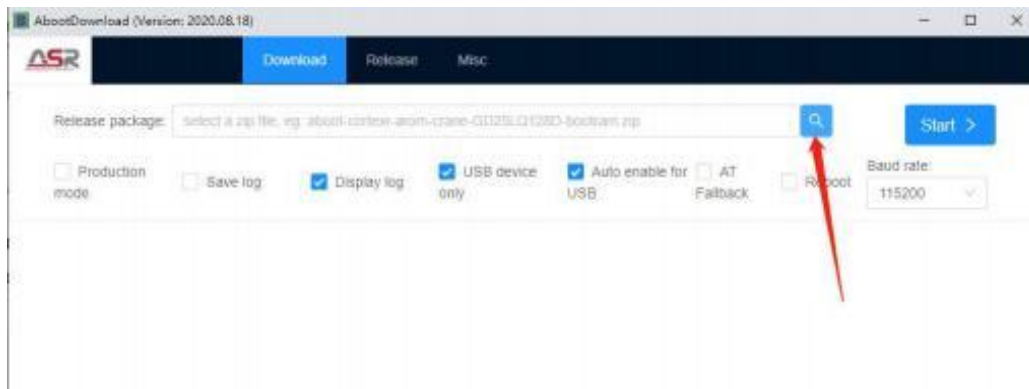
2、Enter the main interface of the upgrade tool.



3、Click the



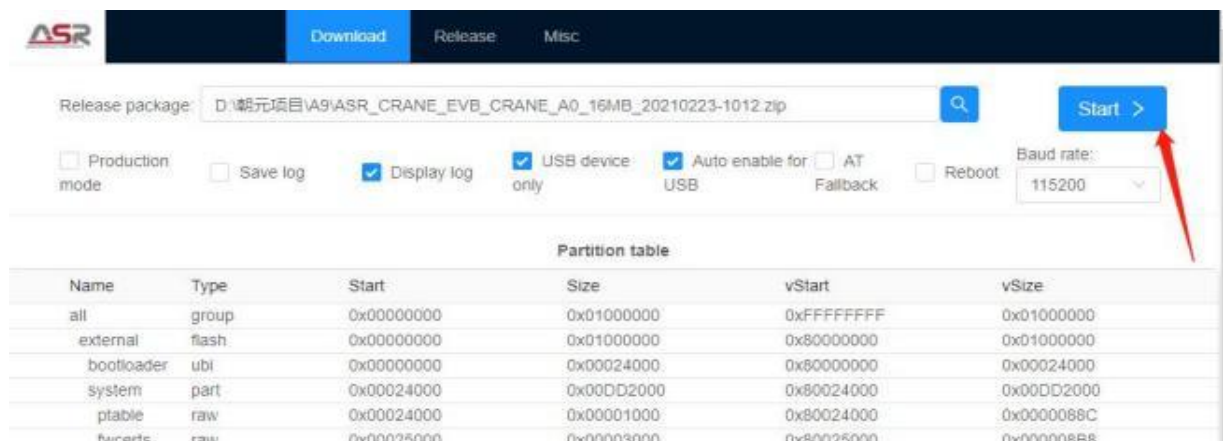
icon, Load the firmware zip package.



4、In the pop-up software loading interface, select the correct firmware save path. The firmware compressed packages provided by Choyong are all .ZIP compressed files. Click to load the firmware package. **No need to unzip the firmware package.**

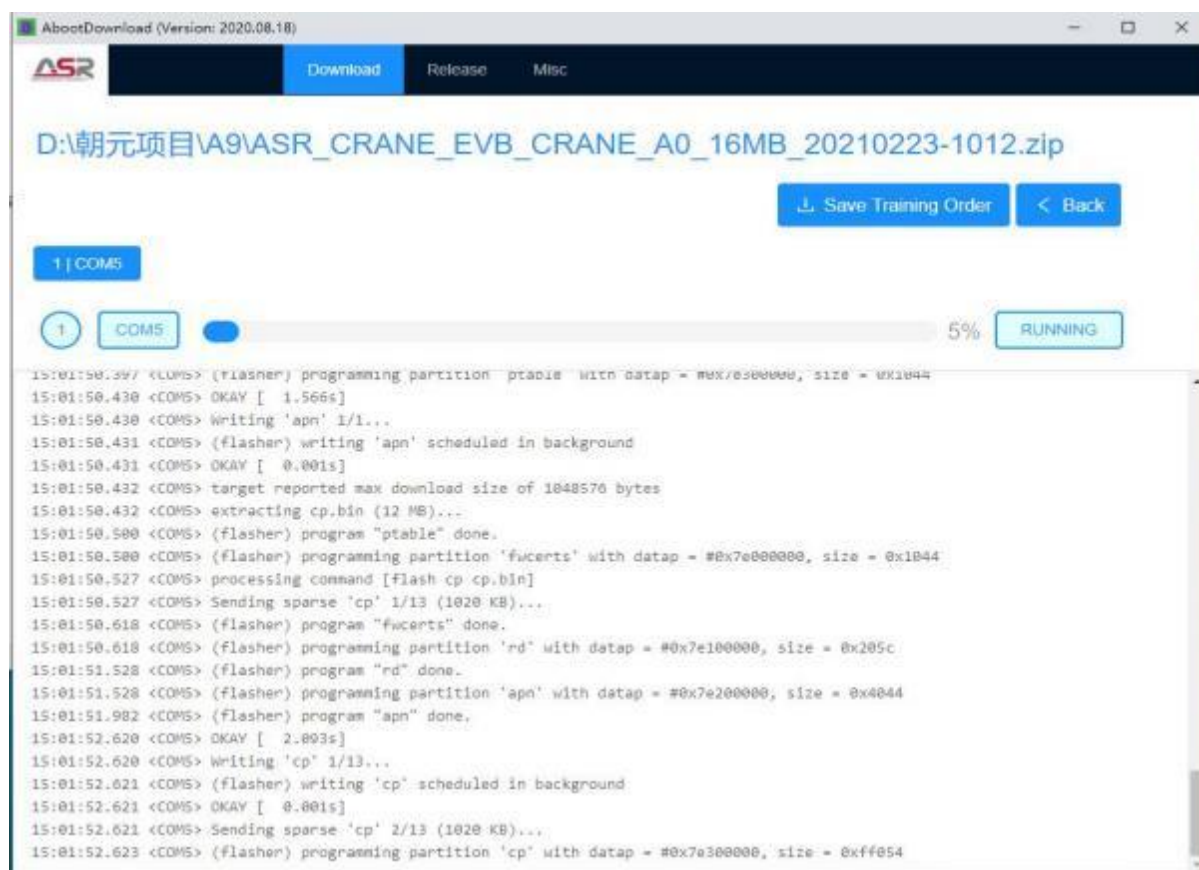


5: Check the same options as shown in the figure below. click "start" to Enter the firmware upgrade process.



Name	Type	Start	Size	vStart	vSize
all	group	0x00000000	0x01000000	0xFFFFFFFF	0x01000000
external	flash	0x00000000	0x01000000	0x80000000	0x01000000
bootloader	ubi	0x00000000	0x00024000	0x80000000	0x00024000
system	part	0x00024000	0x00DD2000	0x80024000	0x00DD2000
ptable	raw	0x00024000	0x00001000	0x80024000	0x0000088C
fwcerts	raw	0x00025000	0x00003000	0x80025000	0x000008B8

6、Connect one end of the USB cable to the computer, and insert the other end into the Choyong Radio. The upgrade tool will automatically begin upgrading the firmware. If it still hasn't started upgrading, please short click at the Power key. **Before inserting the USB cable, make sure that the radio is totally turned off.**



ASR AboutDownload (Version: 2020.08.18)

D:\朝元项目\A9\ASR_CRANE_EVB_CRANE_A0_16MB_20210223-1012.zip

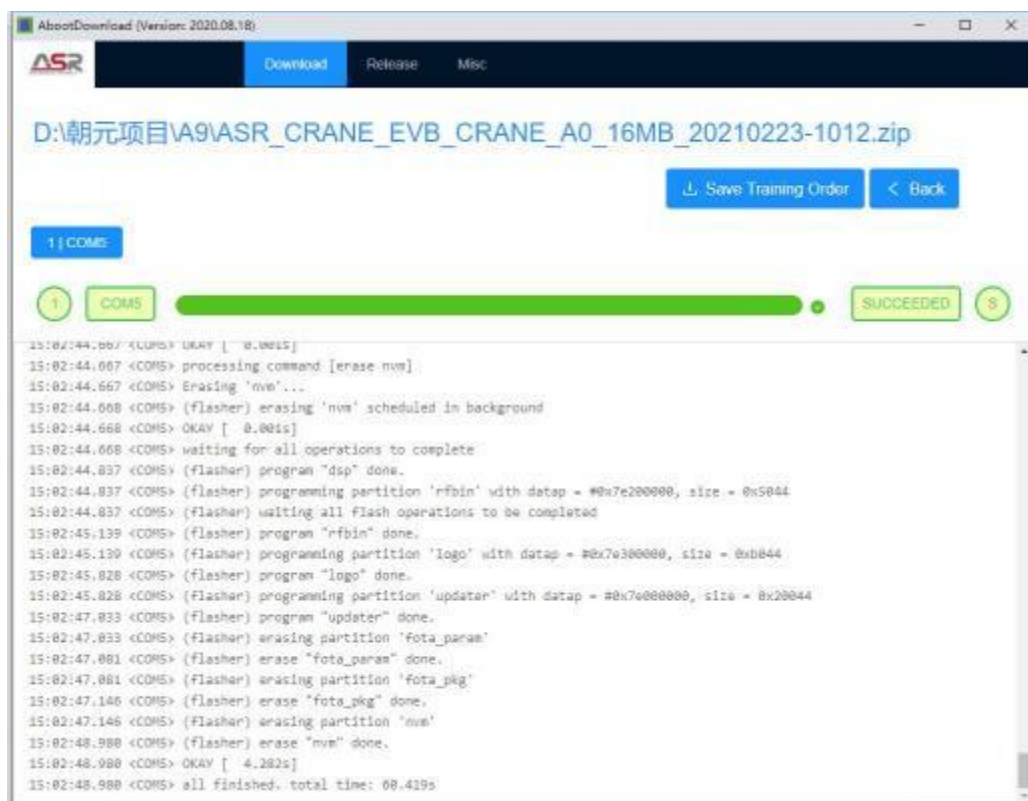
1 | COM5

1 COM5 5% RUNNING

```

15:01:50.397 <COM5> (flasher) programming partition 'ptable' with datap = 0x7e000000, size = 0x1044
15:01:50.430 <COM5> OKAY [ 1.566s]
15:01:50.430 <COM5> Writing 'apn' 1/1...
15:01:50.431 <COM5> (flasher) writing 'apn' scheduled in background
15:01:50.431 <COM5> OKAY [ 0.001s]
15:01:50.432 <COM5> target reported max download size of 1048576 bytes
15:01:50.432 <COM5> extracting cp.bin (12 MB)...
15:01:50.500 <COM5> (flasher) program "ptable" done.
15:01:50.500 <COM5> (flasher) programming partition 'fwcerts' with datap = 0x7e000000, size = 0x1044
15:01:50.527 <COM5> processing command [flash cp cp.bin]
15:01:50.527 <COM5> Sending sparse 'cp' 1/13 (1020 KB)...
15:01:50.618 <COM5> (flasher) program "fwcerts" done.
15:01:50.618 <COM5> (flasher) programming partition 'rd' with datap = 0x7e100000, size = 0x205c
15:01:51.528 <COM5> (flasher) program "rd" done.
15:01:51.528 <COM5> (flasher) programming partition 'apn' with datap = 0x7e200000, size = 0x4044
15:01:51.982 <COM5> (flasher) program "apn" done.
15:01:52.620 <COM5> OKAY [ 2.093s]
15:01:52.620 <COM5> Writing 'cp' 1/13...
15:01:52.621 <COM5> (flasher) writing 'cp' scheduled in background
15:01:52.621 <COM5> OKAY [ 0.001s]
15:01:52.621 <COM5> Sending sparse 'cp' 2/13 (1020 KB)...
15:01:52.623 <COM5> (flasher) programming partition 'cp' with datap = 0x7e300000, size = 0xff054
  
```

7、If the following image appears, it means that the firmware upgrade was successful, please unplug the USB cable.



Upgrade Tool Usage Precautions

1: Please ensure that the Radio to be upgraded is completely turned off. Pressing the red power button to turn off the Radio.

2: After the radio is connected to the computer's USB port, it will be normally recognized and the upgrade will start automatically. If the radio port is not recognized after insertion, unplug and re-insert the USB cable.

3: Please make sure that the USB cable has data transmission capability, not just charging function.

4: During the upgrade process, try to keep the USB cable and radio stable to avoid data transmission instability leading to download interruption.