

Android screen firmware modification tool instructions

1 Tool overview



The figure above shows the file structure of the FWFactoryTool root directory.

- Log folder: It saves the log file when the tool is running
- Temp folder: It holds the files after the tool unpacks the firmware update.img.
 The subsequent operation of the tool is actually to edit the files in the Temp folder and then package them to generate the modified update.img file.
- config.ini file: This is the configuration file for the FWFactoryTool program.



There is a parameter in the configuration file to choose according to the corresponding Android version, for example, Android8.1, Android8.0 both belong to android 8.0.

• FWFactoryTool.exe : This is the firmware modification tool application. It reads config.ini every time it is started. In other words, when you modify config.ini, you need to close FWFactoryTool, because config.ini modification is not loaded in real time, but only when the software is started.



2. Tool interface overview

2.1 Startup interface

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This is the startup interface of the tool, click [Firmware] in the upper left corner, i.e. update.img, which is the firmware used for Android screen burning, and users can modify this firmware.

- While loading, the tool starts the unpacking operation of the firmware, and extracts the corresponding image to the Temp folder in the root directory.
- Depending on the size of the firmware and the configuration of the PC, the decompression time varies. Usually this process takes about 5 minutes.
- Note that some third-party programs do not support the special symbols in the directory due to the large number of third-party programs called by the tool. It is recommended to put the whole firmware tool in a simple directory (e.g.D:\FWFactoryTool\) and then run the firmware modification tool program).



2.2 Successful firmware loading interface

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- Above is the interface after successfully decompressing update.img.
- After that, you can see the contents of the firmware in the Temp folder of the tool root directory.
- At this point, you can operate the tool and make the corresponding changes.
- When you finish the modification, click the [Save] button at the bottom right corner. Depending on the size of the firmware and the performance of PC, the time required varies. It takes 5 to 10 minutes to generate a new modified firmware.
- Download the new modified firmware and perform the related tests.



3. Custom firmware

3.1 Modify the default value of system properties

Click [Modify Buildpro], find the property parameter and modify it.

Click [close] after modification.

E.g., If you want to modify the default direction of boot, modify both persist.sys.rotation and

ro.sf.hwrotation to 0, 90, 180 or 270.

For other properties, please refer to our other instructions or Android official instructions.

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3.2 Modify the boot logo and animation

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To modify the first boot image, please click [Modify ubootlogo], then select your logo image.

Note: Please use 8bit bmp images.

The conversion can be done at https://online-converting.com/image/convert2bmp/

To modify the subsequent dynamic boot animation, please do not directly click [Replace Boot Animation] in the tool.

Instead, place the finished boot animation package bootanimation.zip in the

FWFactoryTool_V5.50\Temp\System\media\



解別	玉缩			
> 固作	牛修改工具 → FWFactoryTool_V5.50 → Temp	> System > media		
	名称 ^	修改日期	类型	大小
	📊 audio	2020/2/26 9:54	文件夹	
í.	💼 bootanimation.zip	2020/2/26 11:53	好压 ZIP 压缩文件	2,374 KB
R				
*				
*				

bootanimation.zip is the standard boot animation package for Android, please refer to the official Android related materials.



3.3 Add pre-installed apk files

Click on the lower right area.

Click on pre-installed apk or pre-installed uninstallable apk.

Right click in the lower area to add or remove.

Firmware ktop\RockChip\EKT	solz\windows\AndroidTool\reckdev	\update. ing			
STEM SETTING					
Systam info		Boot logo Boot animation Default	wallpaper kernel logo Char	rging animation	
Company Dwin	Nodel number [DWG128007070-33]	place uboot lo: splace boot and splace config	place vallpape palce charge	an place kernel Lo 3	CZHOLIDOAN_Y
ild number rockchip/rk3288/1	rk3288:8.1.0/0PW8.190605.005/14				
DX version RK30_ANDROID8.1.0	0-SDE-1.00.0D				
iB info					
JSB factory rockship_usb		OUD5			
lisk volume					
rsten ponfig					
rsten ponfig settin 240	Elustoot}				
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rsten ponfig settin 240 ace boot riz s shutdown s] If choose user partition wil	DElusteeti open open open	APX config(Use right button to add System apk Preinstall apk Freins	lor del) tall_del AFK	γ. π/1-01 + 02	inel:364x123
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rsten sonfig settin [240] ace boot riz a shutdown x If choose, user partition wil (ou can clone all settings in system settings, browser setti	Cpen open ll format! device into firmvork, like ings, preinstall apks etc.	-APX config(Use right button to add System apk Preinstall apk Freins File name	l or del) tall_del AFK File sire	P. File date	inal:954x123
rsten ponfig settin 240 ace boot riz a shutdown : If choose, user partition wil You can clone all settings in system settings, browser setti	<pre>✓Elustoot)</pre>	AFX config(Use right buttom to add System apk Proinstall apk Preins File mane	t or del) tall_del AFK File size	P: File date	inel:954r)23
rsten sonfig settin [240] ace boot riz a shutdown >] If choose, user partition will fou can clone all settings in system settings, browser setti	<pre></pre>	AFX config(Use right buttom to add System apk Preinstall apk Freins File mane	l or del) tall_del AFK File sire	P: File date	inal:964x123
rsten ponfig settin 240 ace boot riz a shutdown : If choose, user partition wil fou can clone all settings in system settings, browser setti	✓ Elustoot) open open cpen ll fornat! device into firmvork, like ngs, preinstall apks etc.	AFX config(Use right buttom to add System apk Proinstall apk Preins File mane	tall_del AFK File sire	File date	inal:964x123
rsten sonfig settin [240] ace boot riz a shutdown :] If choose, user partition wil ou can clone all settings in witten settings, browser setti	Cpen cpen cpen ll format! device into firmvork, like mgs, preinstall apks etc. STSTEM_CLONE	AFX config(Use right button to add System apk Preinstall apk Freins File name	tall_del AFK Tile size	P: File date	inal:964x123

3.4 Modify other properties

Some of the system-level firmware modifications cannot be listed, so users can modify them according to their needs by opening the Temp folder to freely add, delete and customize the firmware, and finally save the firmware to take effect.



4.3. FAQ

1. If an update.img is occupied by other tools, it will report unpacking firmware error when using this tool to unpack the firmware.

2.Android7.1 RK3288 pre-installed apk in vendor partition, Android8.0/8.1 pre-installed apk in oem partition to ensure that the parameter.txt of the corresponding partition is large enough, otherwise the oem or vendor may fail to load in insufficient space during download.

3. If the update img of the production package reports an error during download, you can update the burning tool to a newer version.

4. Language switch: Open config.ini file, and then you can change language to English.

#Choose software language:Selected=1(Chinese);<mark>Selected=2(English)</mark> [Language] Kinds=2 Selected=1 LangPath=Language\