

Flashing Guide

Android HMI

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This flashing guide is intended to improve the operator's efficiency throughout the procedure and does not entirely absolve them of responsibility.

Change Record

Rev. No.	Date	Details	Revised By	Approved By
1	05/12/2024	Initial Release	Dharmesh Basapati	Kanji Viroja
2	25/04/2025	Legal Entity Conversion: LLP to PVT LTD	Dharmesh Basapati	Kanji Viroja
3	05/05/2026	Revised Email Address	Rajkumar Patel	Kanji Viroja

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1 Intended Use

This flashing guide will lead users through the standard process for flashing firmware for the HMI to alter or place the customer logo according to their specifications.

Furthermore, the user can contact our team to resolve their issue by using the contact information provided on the last page.

WARNING!	Risk caused by inappropriate use!
	Any unconventional usage or operation of the product may have unintended repercussions. <ul style="list-style-type: none">• Only conventionally use the product.

1.1 Alteration and Restoration of the Product or System

To prevent risks and ensure optimal performance, no alterations, attachments, or restoration of the product are permitted without explicit authorisation of Bacancy Systems PVT LTD.

2 Procedure

- **Pre-Requisite**

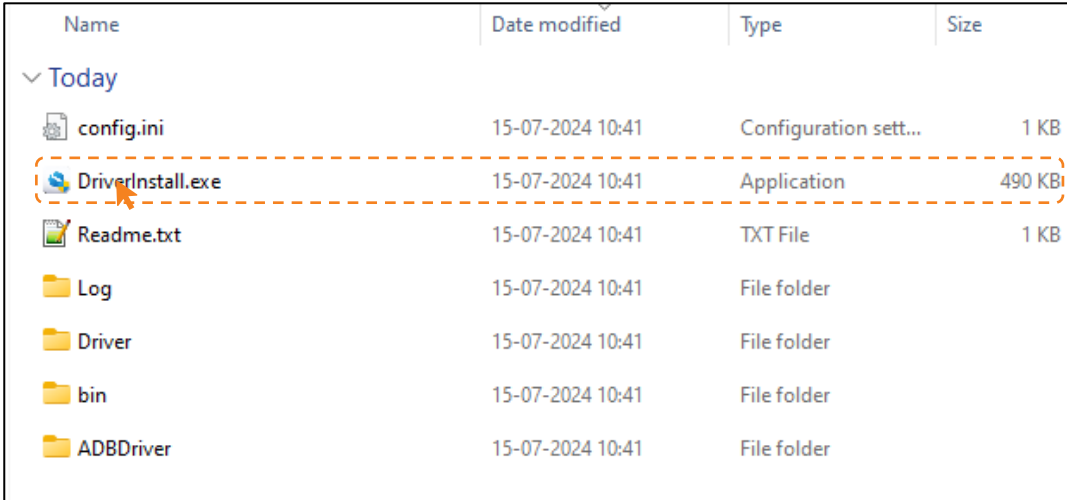
No.	Tool / Equipment	File Provided
1.	Android 11 Firmware Modification Tool	Download
2.	Android 11 USB Burning Tool	Download
3.	Universal Android Burning Tool's Driver	Download
4.	Coordinated Firmware Image File (*.img)	DWIN Support Team
5.	Boot Logo Picture – BMP (24-Bit Format) (600 X 600)	Convert the image logo to BMP format

- **Reference**

No.	Video File	File Provided
1.	Process of a Boot Logo Modification	Video

2.1 Flashing Steps

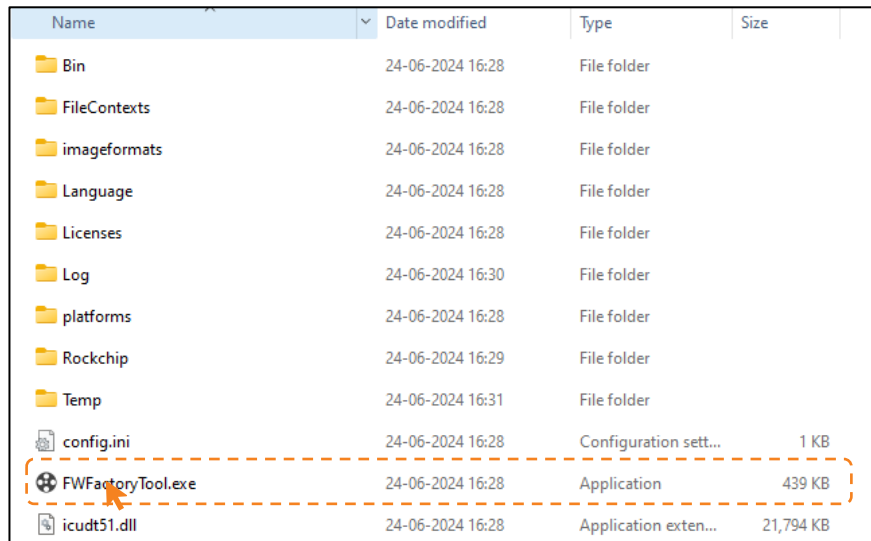
1. Install “Universal Android Buring Tool's Driver”.



Name	Date modified	Type	Size
Today			
config.ini	15-07-2024 10:41	Configuration sett...	1 KB
DriverInstall.exe	15-07-2024 10:41	Application	490 KB
Readme.txt	15-07-2024 10:41	TXT File	1 KB
Log	15-07-2024 10:41	File folder	
Driver	15-07-2024 10:41	File folder	
bin	15-07-2024 10:41	File folder	
ADBDriver	15-07-2024 10:41	File folder	

Figure 1 Install the Driver.

2. Open the “FWFactoryTool.exe”.



Name	Date modified	Type	Size
Bin	24-06-2024 16:28	File folder	
FileContexts	24-06-2024 16:28	File folder	
imageformats	24-06-2024 16:28	File folder	
Language	24-06-2024 16:28	File folder	
Licenses	24-06-2024 16:28	File folder	
Log	24-06-2024 16:30	File folder	
platforms	24-06-2024 16:28	File folder	
Rockchip	24-06-2024 16:29	File folder	
Temp	24-06-2024 16:31	File folder	
config.ini	24-06-2024 16:28	Configuration sett...	1 KB
FWFactoryTool.exe	24-06-2024 16:28	Application	439 KB
icudt51.dll	24-06-2024 16:28	Application exten...	21,794 KB

Figure 2 Open the FWFactoryTool.exe.

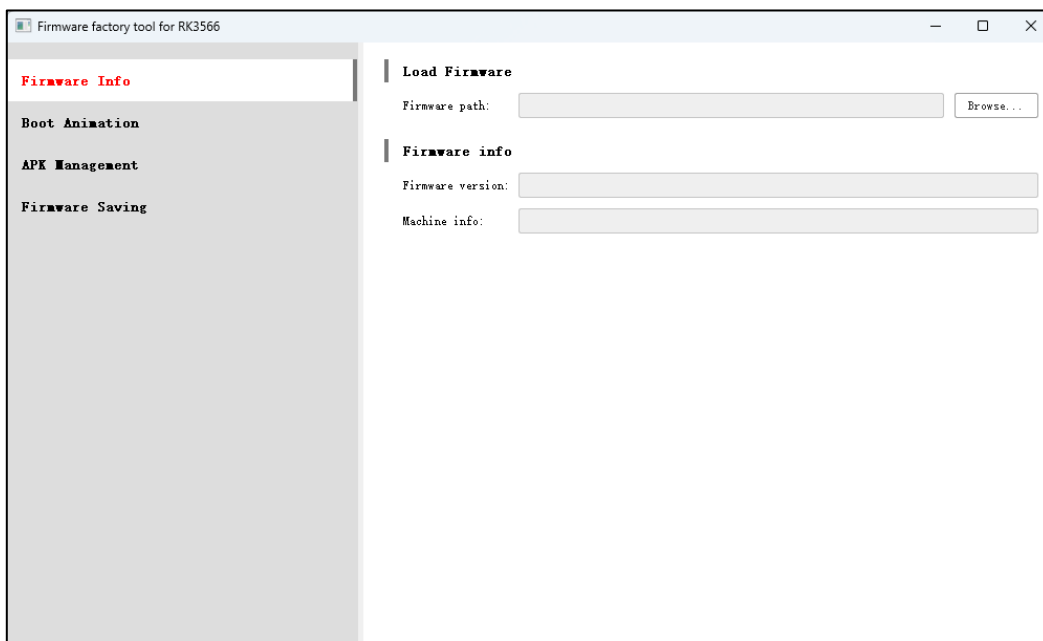


Figure 3 Firmware Factory Tool Window.

3. Load the firmware image file.

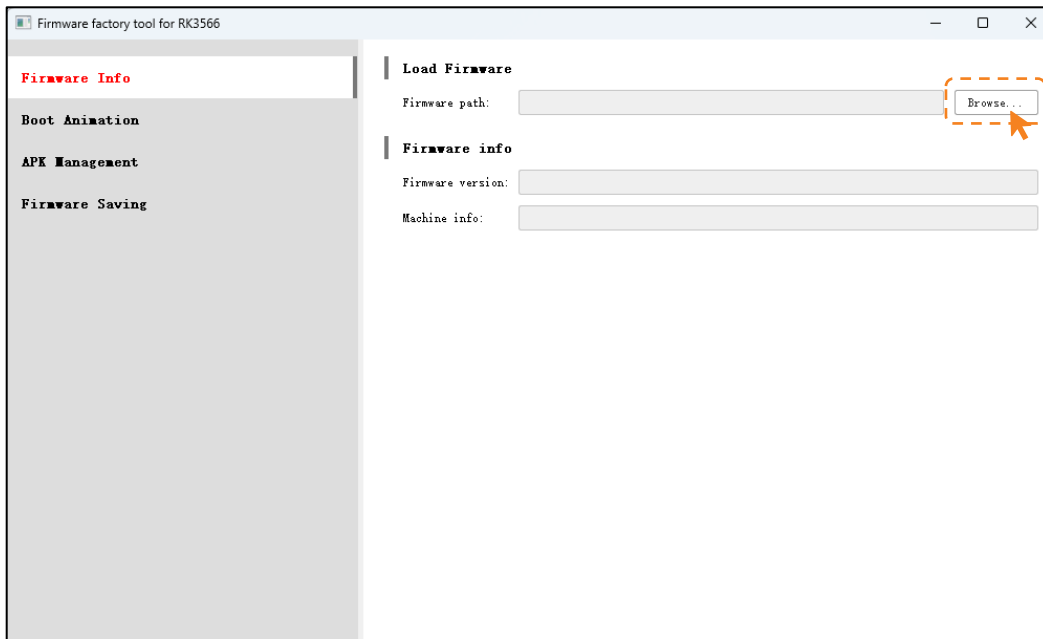


Figure 4 Load the firmware image file.

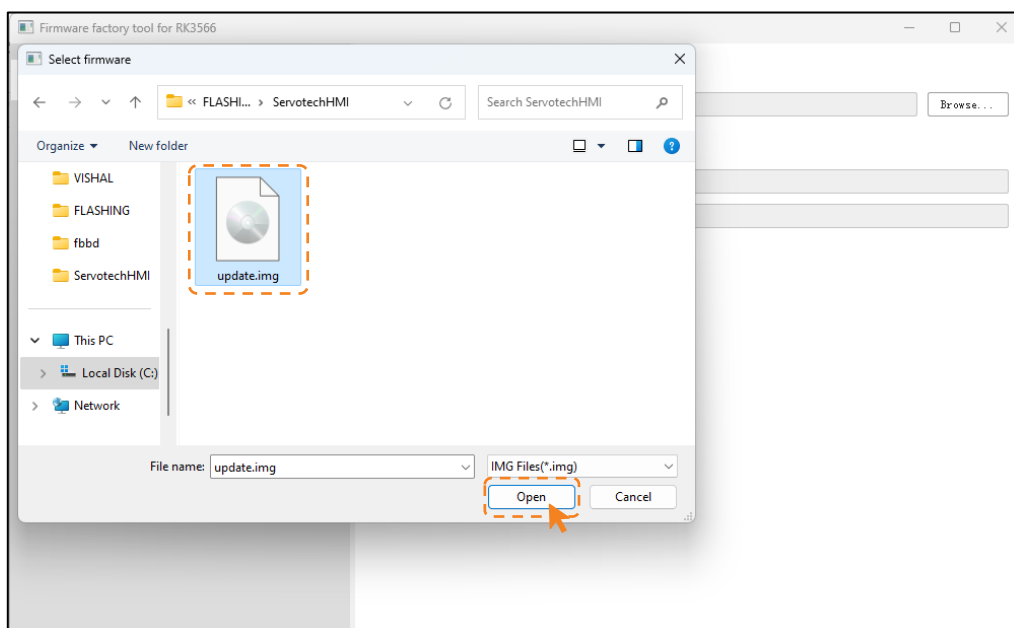


Figure 5 Select and Open the Firmware Image file.

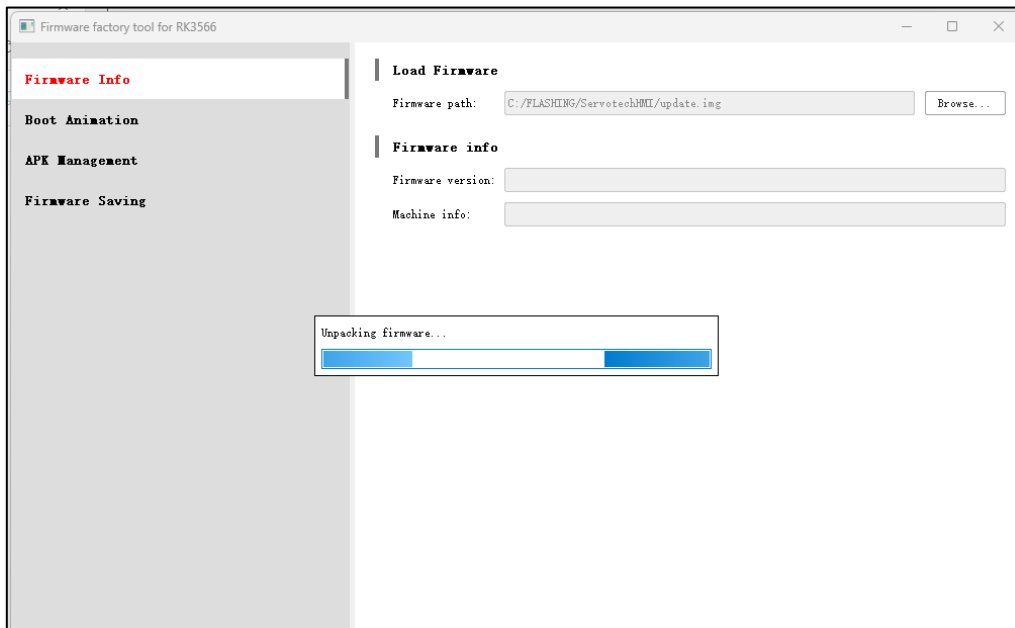


Figure 6 Unpacking the Firmware Process.

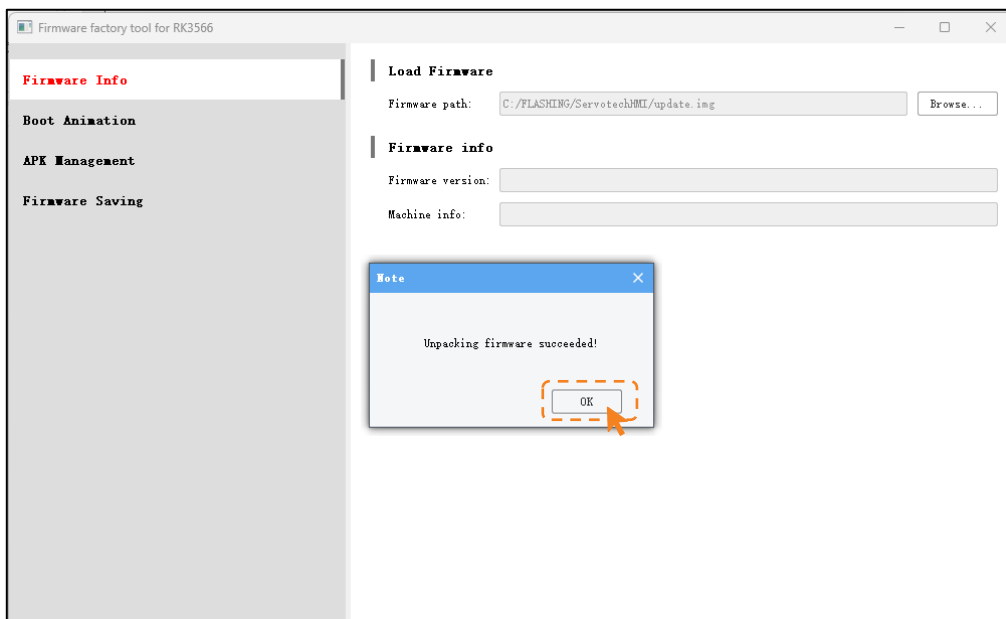


Figure 7 Unpacking the Firmware Succeeded.

4. Replace the boot logo with your image.

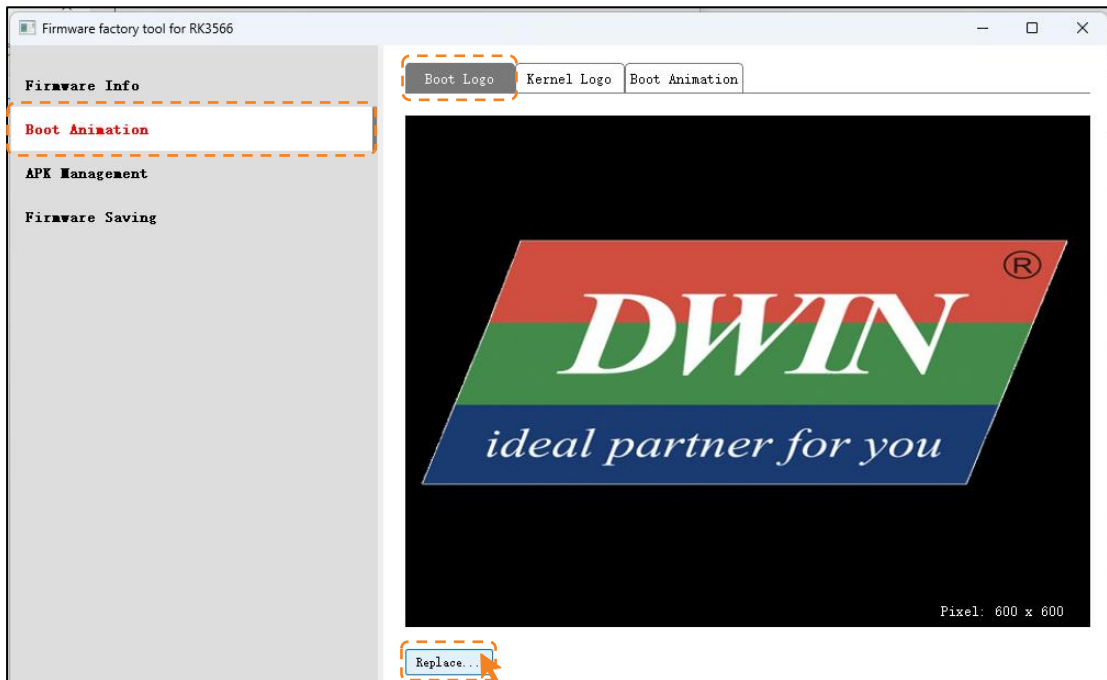


Figure 8 Click the Replace Button.

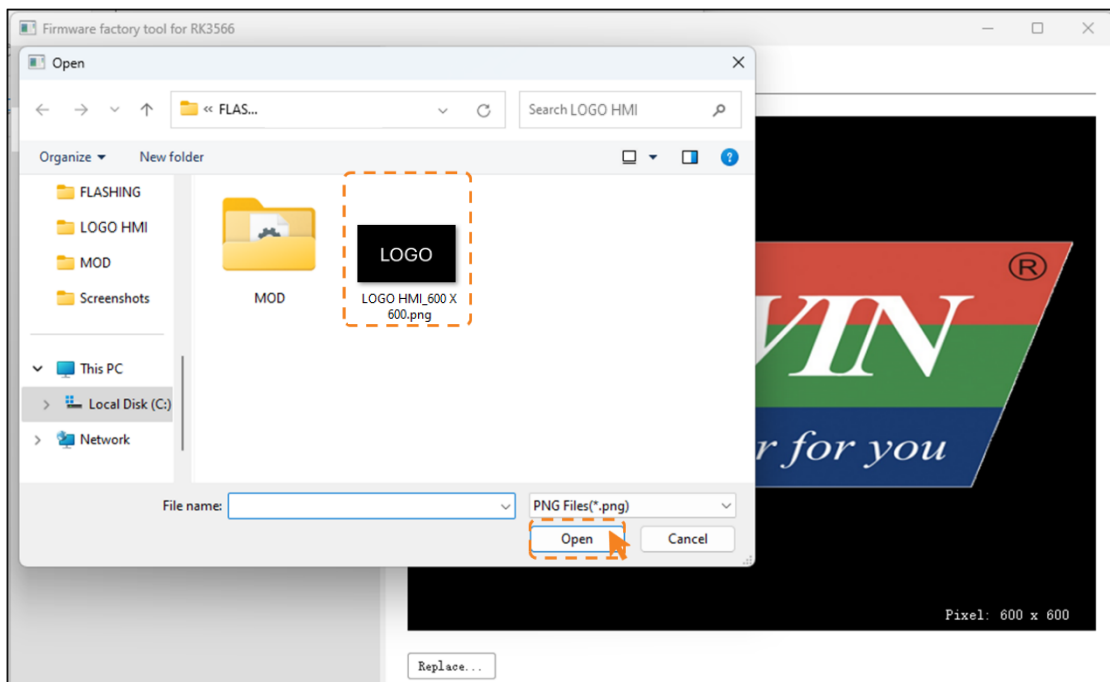


Figure 9 Select and Open the Logo Image.

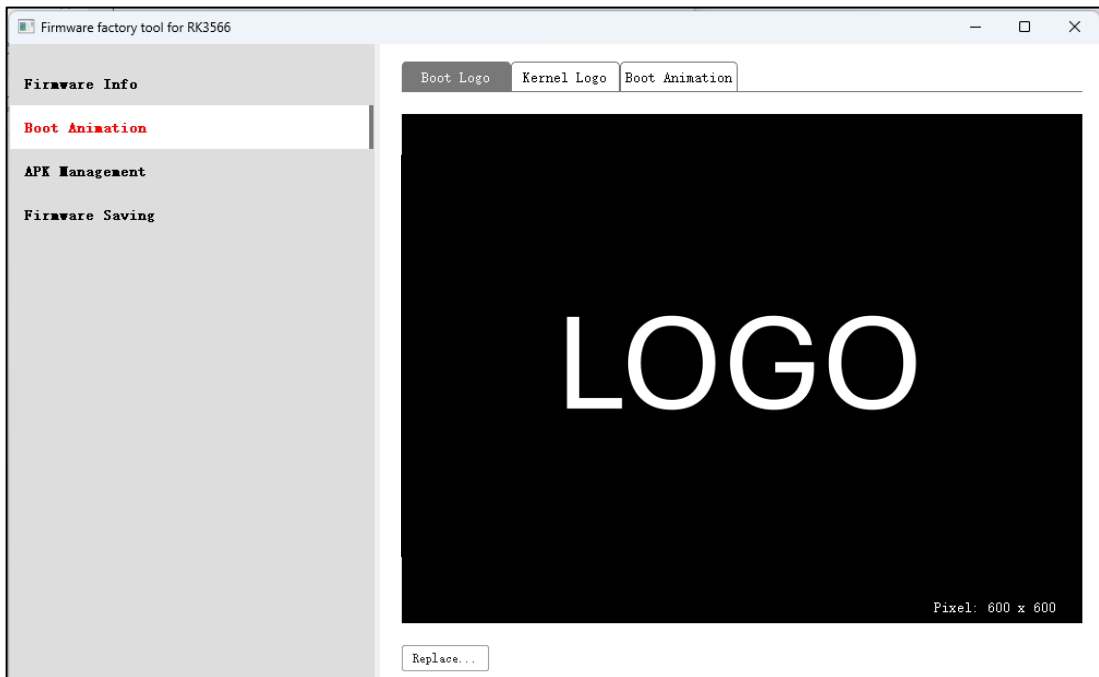


Figure 10 Updated Logo.

5. Save the firmware pack to the specified folder on the PC.

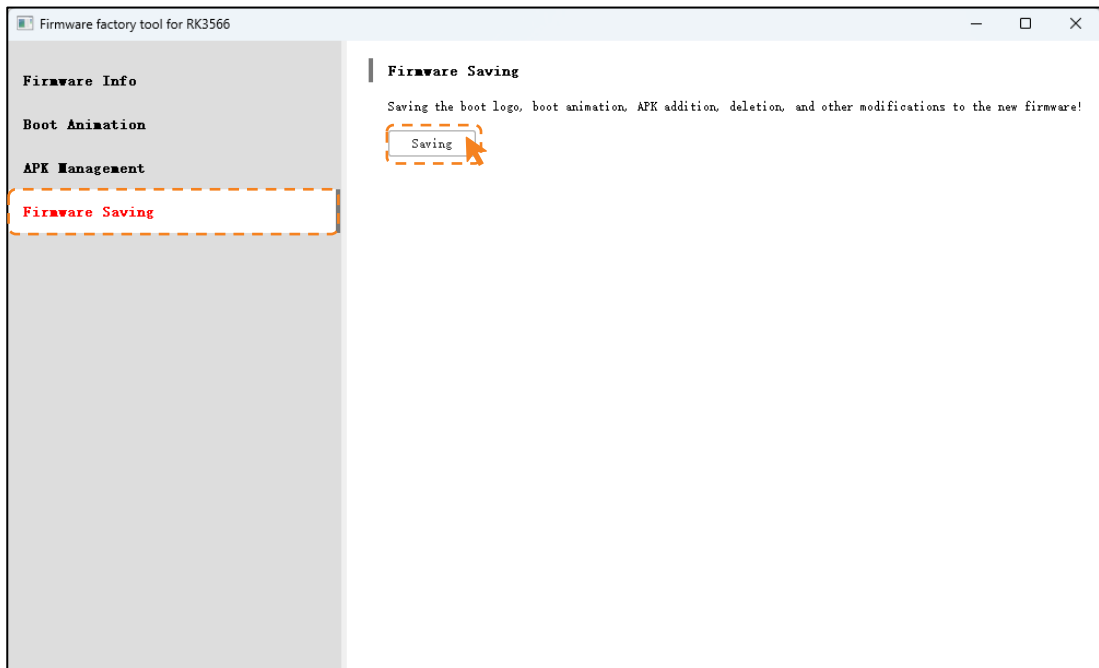


Figure 11 Save the Firmware Pack.

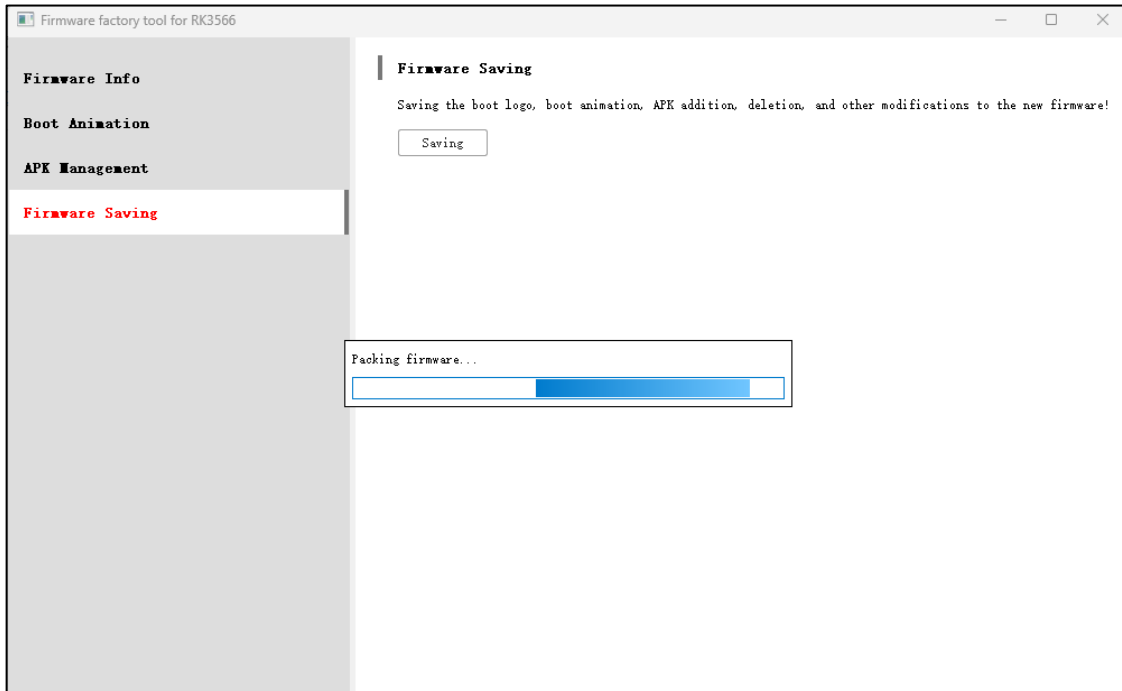


Figure 12 Firmware Packing Process.

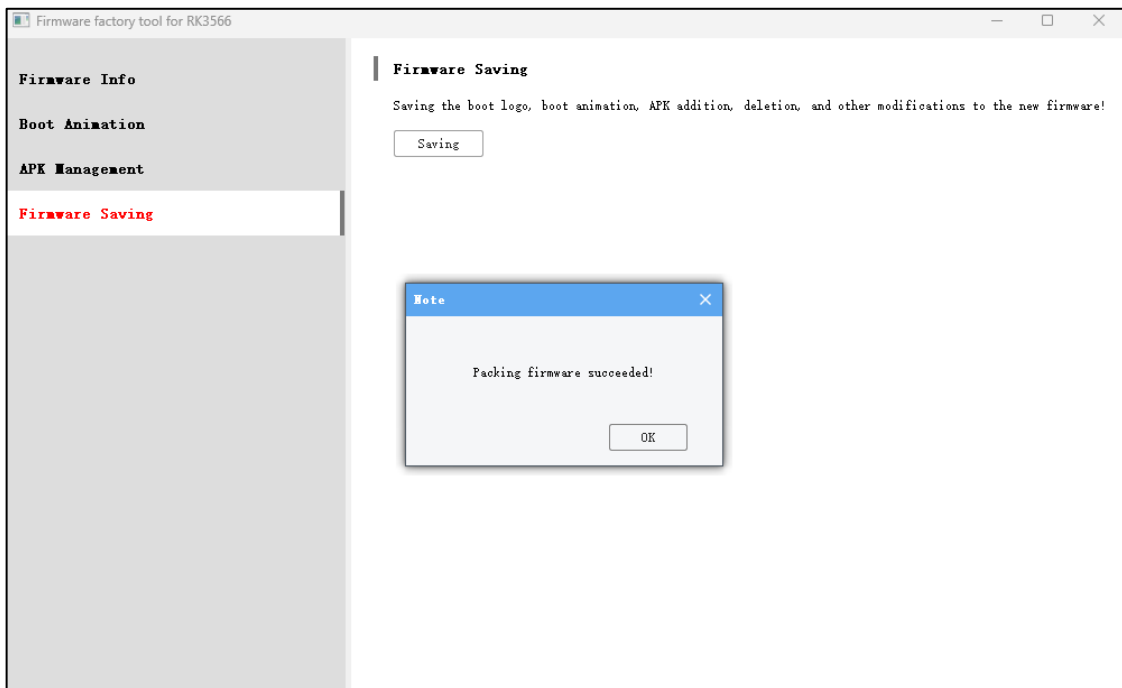


Figure 13 Firmware Packing Succeeded.

6. Open “RKDevTool.exe” to burn the firmware image to the HMI.

Name	Date modified	Type	Size
bin	12-05-2022 06:20	File folder	
Language	12-05-2022 06:20	File folder	
Log	15-07-2024 10:45	File folder	
config.cfg	16-04-2024 12:27	Configuration Sou...	7 KB
config.ini	07-03-2024 14:04	Configuration sett...	2 KB
revision.txt	19-01-2022 15:08	TXT File	2 KB
RKDevTool.exe	19-01-2022 15:07	Application	1,205 KB
开发工具使用文档_v1.0.pdf	27-08-2021 07:58	Adobe Acrobat D...	450 KB

Figure 14 Open the RKDevTool.exe.

7. Click the "Firmware" tab and then open the image file you saved in step 4.

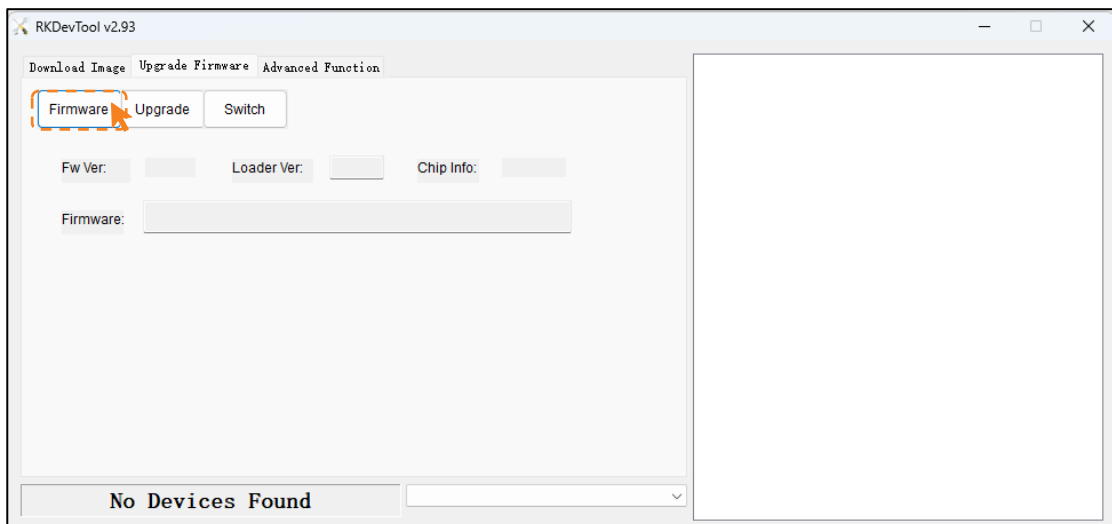


Figure 15 Click the Firmware Tab.

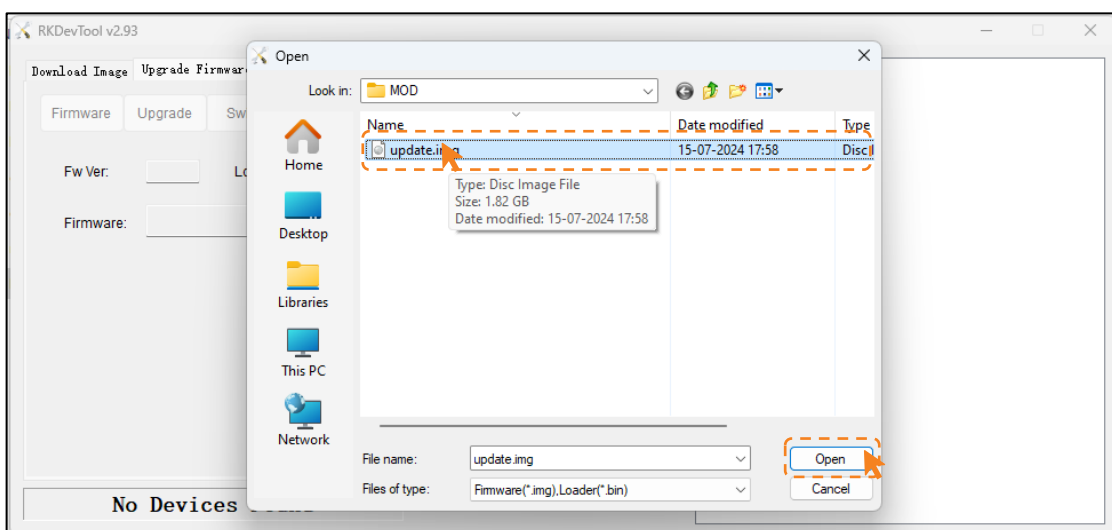


Figure 16 Select and Open the Saved Image File.

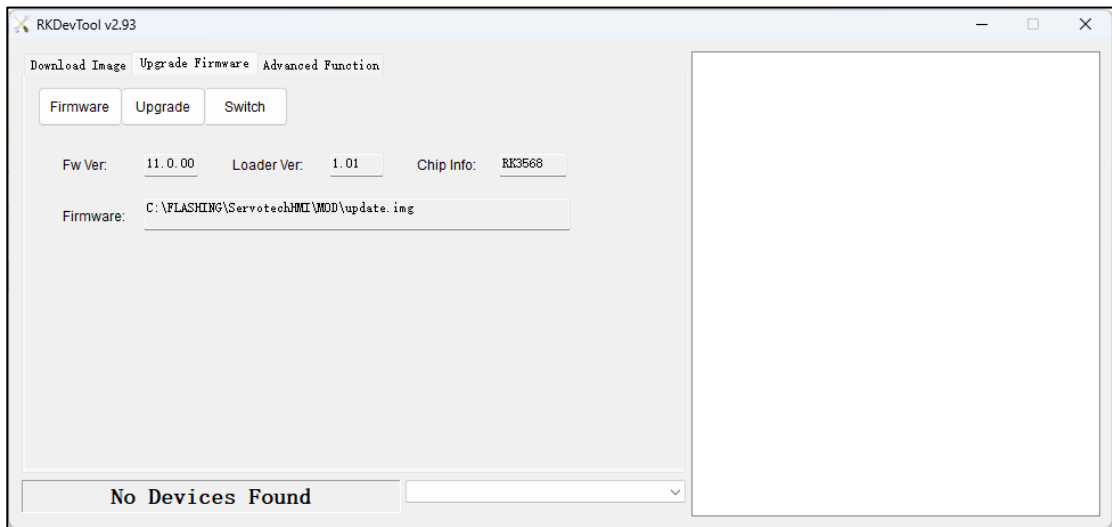


Figure 17 Firmware Loading in the RKDecTool Window.

8. Connect a USB cable from the HMI to the laptop or PC.
9. Long-press the HMI's "Recover" button, then switch on the power supply.
10. In the RKDevTool window, the message "Found one LOADER device" appears.

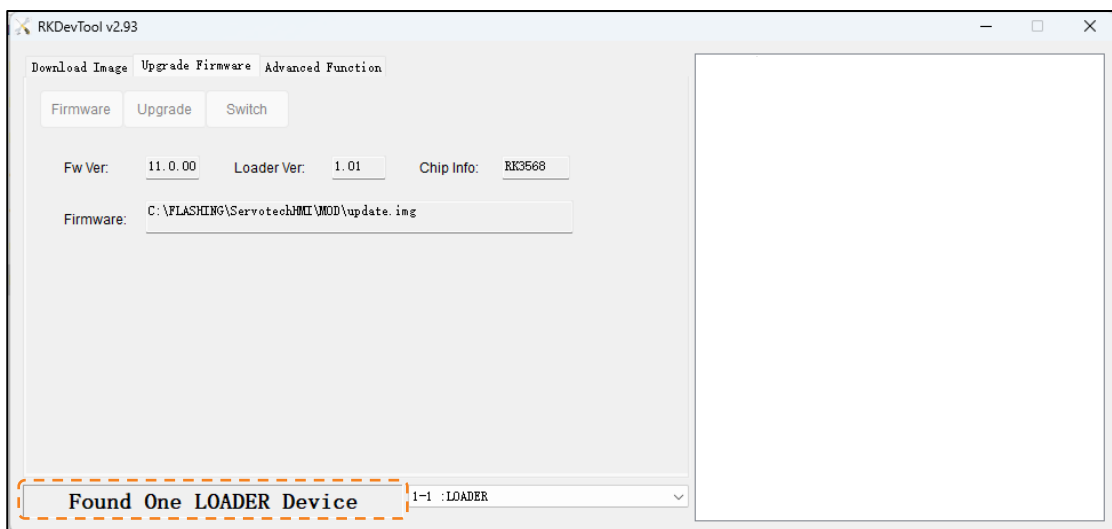


Figure 18 Loader Device Finds in RKDevTool Window.

11. Click the “Upgrade” tab to start burning or flashing the image in the HMI.

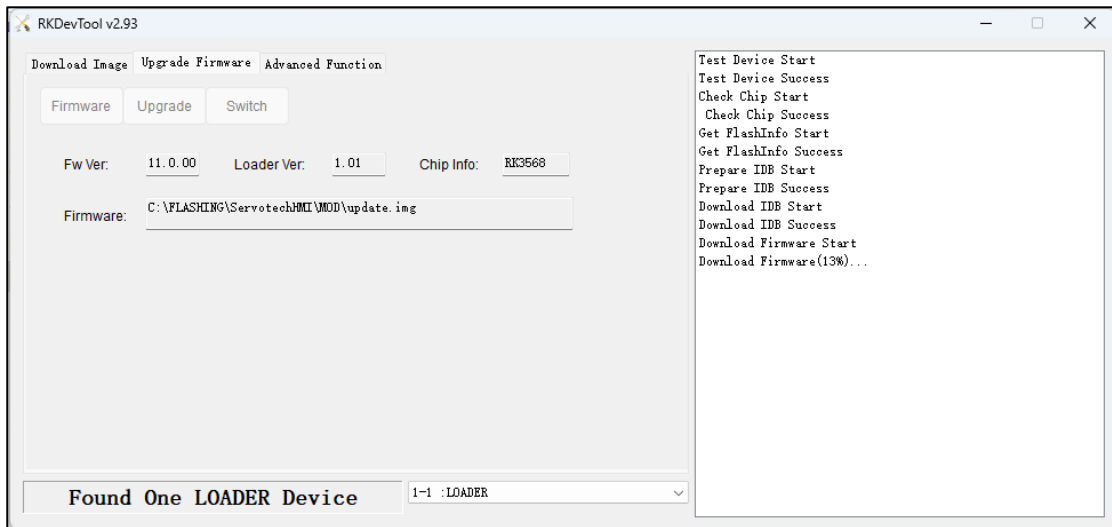





Figure 19 Start Flashing by Clicking on the Upgrade Tab.

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