

DN83 User Manual



Statement

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Safety Notice

- Read the user manual carefully before setting up the Giada product.
- Disconnect the power cord before installing the internal components
- Most electronic components are sensitive to static electrical charge, please wear a wrist-grounding strap when installing the internal components.
- Don't disconnect the power cord when the system is running to avoid damage to the sensitive components by instantaneous surge voltage.

Contact Information

Shenzhen JIEHE Technology Development Co., Ltd.

Website: www.giadatech.com

Phone: +86-755-3330 0336

Email: support@giadatech.com

Address: 37F, Holdfound Sky Plaza Office Building, 11008 Beihuan Blvd.,
Nanshan, SZ, China, 518051

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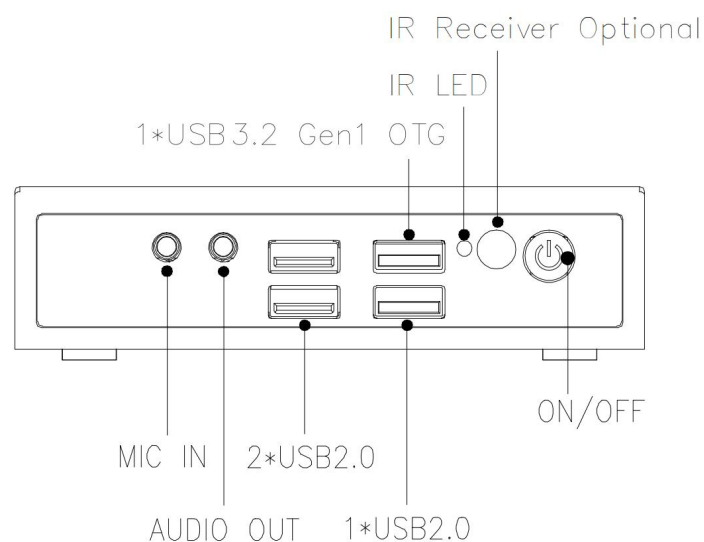
1. Product Introduction

Giada DN83 adopts RK3528 Quad-core ARM Cortex-A55 CPU, onboard memory and eMMC. The player is featured with Android 13 and Debian 11 operation system. With one HDMI2.0 display output, it supports 4K resolution. The player is suitable to be applied in entry-level digital signage and sound control applications.

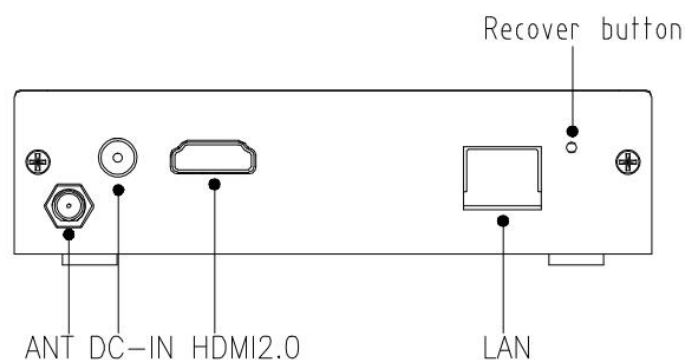
2. Interface Description and Hardware Specifications

2.1 Interface Description

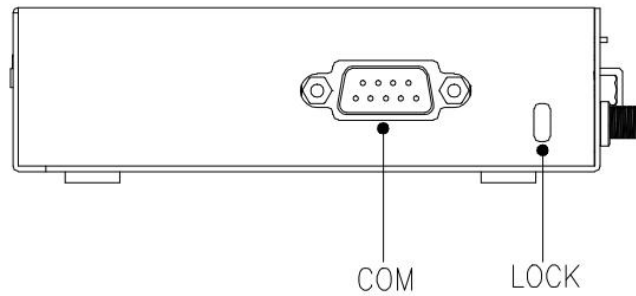
Front I/O Port



Rear I/O Port



Right I/O port



2.2 Hardware Specifications

DN83		Giada DN83-R3528A41E5G-GIA
Processor	CPU	RK3528 Quad-core ARM Cortex-A555
	Frequency	Up to 1.5GHz
	Chipset	SOC
Memory	Type	LPDDR4
	Socket	Onboard
	Capacity	2GB (Optional: 4GB)
Graphics	GPU	Mali-450MP2 GPU
	Graphic Engine	4K VP9 decoders 4K 10bits H.265 decoders 1080P VC-1, MPEG-1/2/4, VP8 video decoders Support HDR10 ,HLG HDR
	HDMI	1 x HDMI 2.0b (Max. 3840x2160@60Hz). Support CEC
Network	Controller	Realtek RTL8211E Gigabit Ethernet
	Interface	1 x RJ45
I/O Interface	USB	1*USB3.2 Gen1 OTG, 2 x USB2.0, 1 x USB2.0
	Serial Port	1 x RS232
	Audio	1 x MIC-IN, 1 x AUDIO-OUT
	Mini-PCIe	1 x B-key M.2 (3042) for 3G/4G
	WiFi+BT Module	WiFi+BT Module Onboard (WiFi 2.4GHz/5GHz)
	SIM Slot	1 x SIM Slot
	LED Indicator	1 x IR LED, 1x Power LED
Storage	eMMC	Onboard eMMC 32GB (Optional: 64G)
JAHC	JAHC	Auto power on/RTC

Operation System	OS	Android 13/Debian 11
Power	Power Type	DC-IN
	Input Voltage	12V/2.08A
Mechanical	Construction	Metal
	Mounting	Desk/VESA Mounting (JC502)
	Fanless	Yes
	Dimension (W x D x H)	116.6mm x 107.4mm x 30mm
	Color	Black
Environment	Operating Temperature	0-45°C at 0.7m/s Air Flow
	Relative Humidity	95%@40°C (non-condensing)
Certification		CE, FCC Class B, UKCA

3. Accessories Installation Steps

▲ For safety reasons, please ensure that the power cord is disconnected before opening the case.

How to open the bottom cover

Unscrew the four screws and remove the bottom cover. (1 x B-key M.2 (3042) for 3G/4G and SIM card slot are on this side)



3.1 3G/4G Installation

▲ Default SMA connector and cable is for WIFI. Please change to 3G/4G SMA connector and cable.

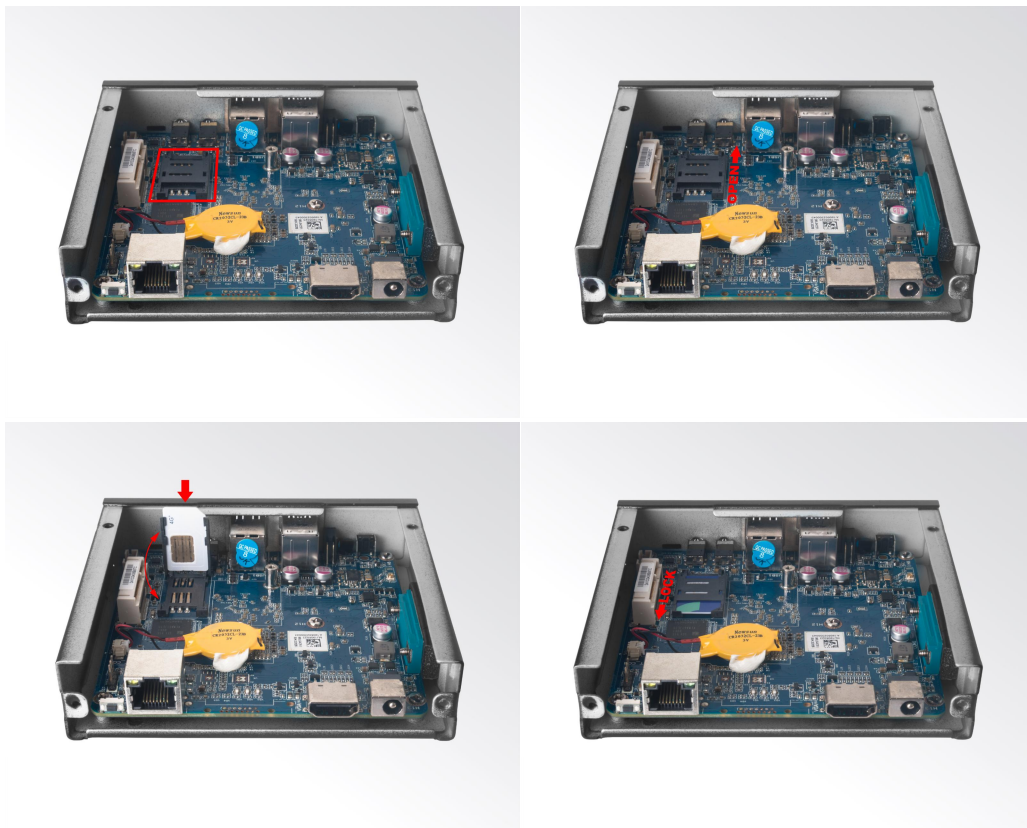
1. Plug the 3G/4G module into the M.2 slot.
2. Secure the module to the carrier by tightening up the screw.
3. Connect the cable to **Main** and install the antenna.



3.2 SIM Card Installation

▲ This product supports standard SIM card with the size of 25mm × 15mm.

1. [Open] the SIM card holder and pull it up.
2. Insert the SIM card.
3. [Lock] the card holder.



4. Firmware Upgrade Guide




4.1 Preparation:

- DN83 player
- Archive of DN83 firmware provided by Giada technical support
- Host PC with screen and installed the Windows operation system.
- USB OTG Cable (RP-SMA Male ↔ RP-SMA Male)



After you get the Archive from Giada technical support, copy the Archive to your host PC, you will find below files inside:

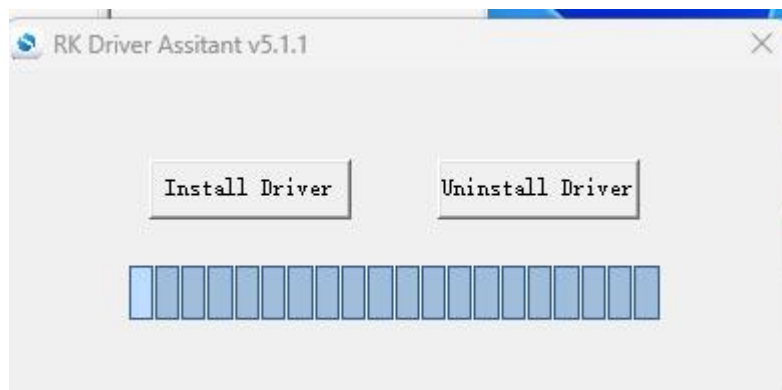
- Android Tool - tool for updating
- DriverAssitant - tool to install drivers and firmware image file
- DN83 Firmware image.

	RKDevTool_v2.93	2025/5/16 14:00	文件夹	
	DriverAssitant_v5.1.1	2025/3/25 8:33	文件夹	
	DN83-T-GIADALOGO-20251010.img	2025/10/10 9:43	光盘映像文件	1,566,659...

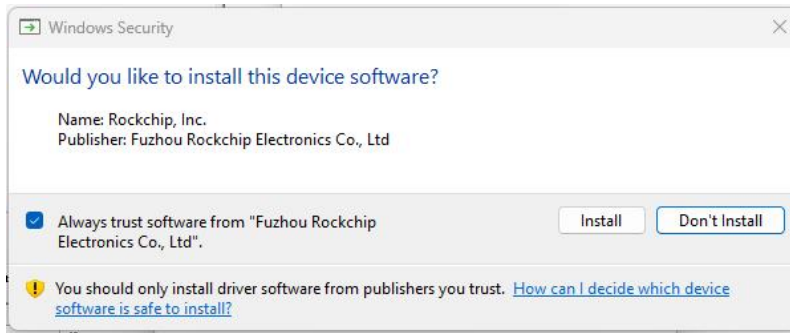
4.2 Upgrade the firmware

4.2.1. Install the driver in your host PC by following steps:

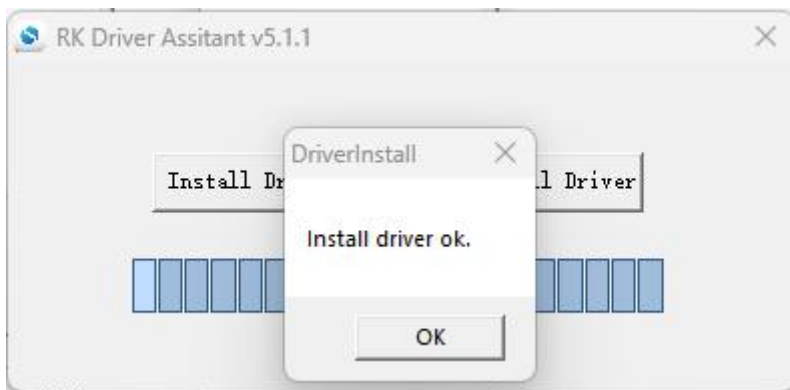
- a. Click the DriverAssitant file. Launch RK DriverAssitant and press "Install Driver".



Apply all changes and warnings during the installation.



b. Click "ok" after the installation finish



4.2.2. Connect the DN83 with host PC

In order to connect the DN83 with Host PC and run bootloader mode, you should perform following steps:

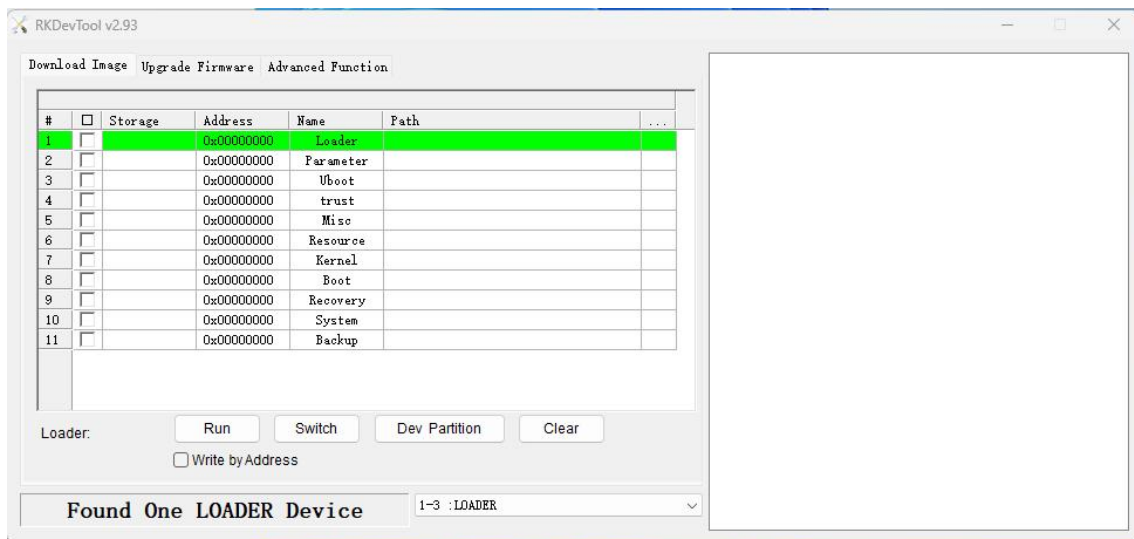


- a. Please ensure that the power of the DN83 player is disconnected
- b. Run Android tool V2.93 under the windows of the host PC.

- c. Connect the DN83 player to the host PC via USB OTG port (please refer to Fig1for location of the OTG port)
 - d. Firstly, hold the DN83 player recovery button (please refer to Fig1 for the location of the button), then connect the power adaptor to the player, you will see “Found a MSC Device” or “Found One Loader Device”. (Please refer to Fig2)
- ⚠ Please don't loosen the button and don't press twice until you see the 'Found a MSC Device' or 'Found One loader device'



(Fig1)



(Fig2)

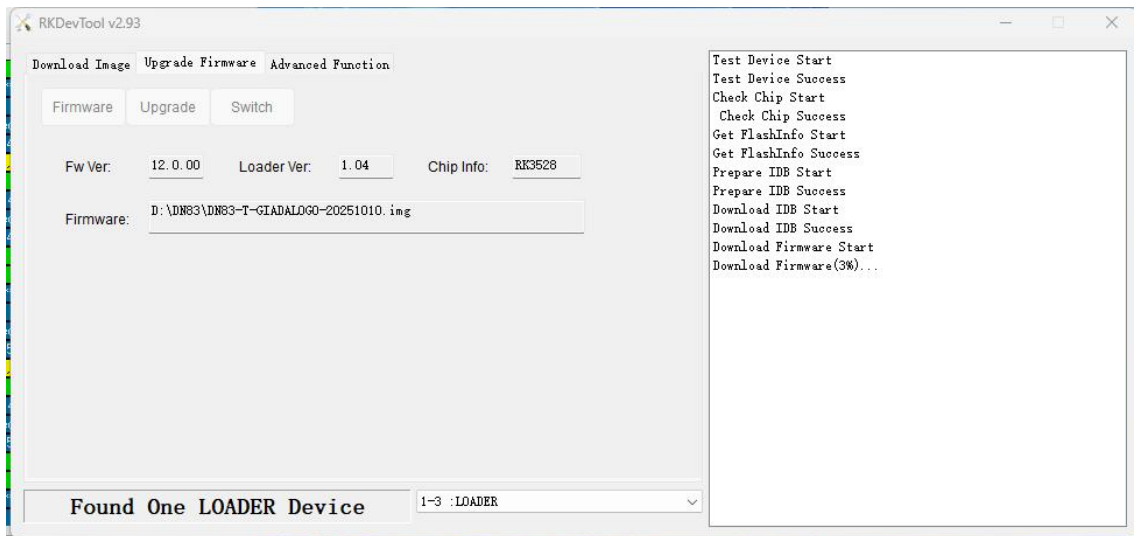
4.2.3. Start the firmware updating.

a. Click “Firmware” button and specify the path to the firmware file which is stored in the host PC (Please refer to Fig2).

b. Wait around 5 seconds to upload the program, FW information will display on the screen. After the “Upgrade” button turns to black, you can click “Upgrade” to update the firmware (please refer to Fig3 and Fig4).

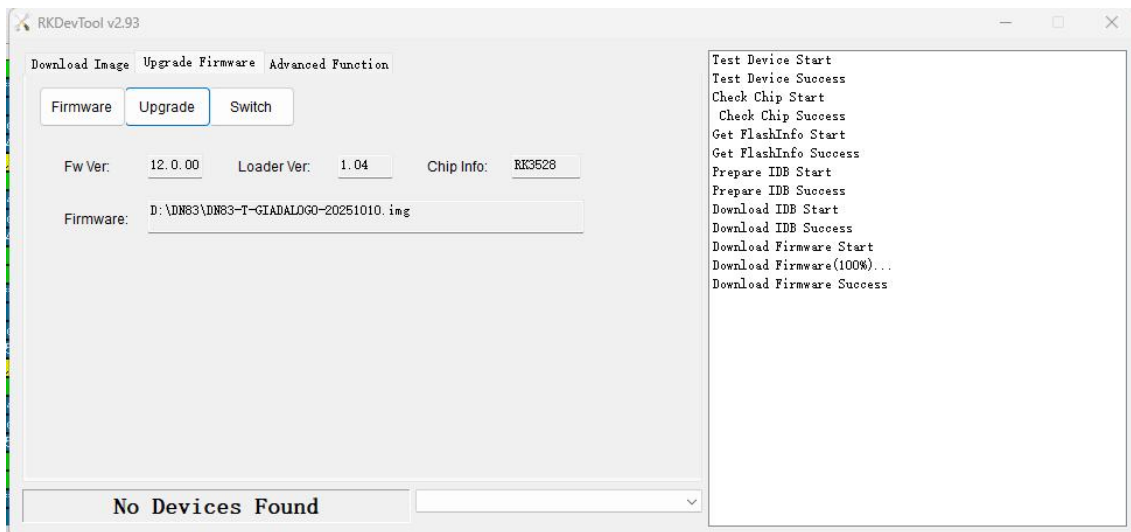


(Fig3)



(Fig4)

c. In the end, you will see a report indicating a successful operation.



5. JAHC APP

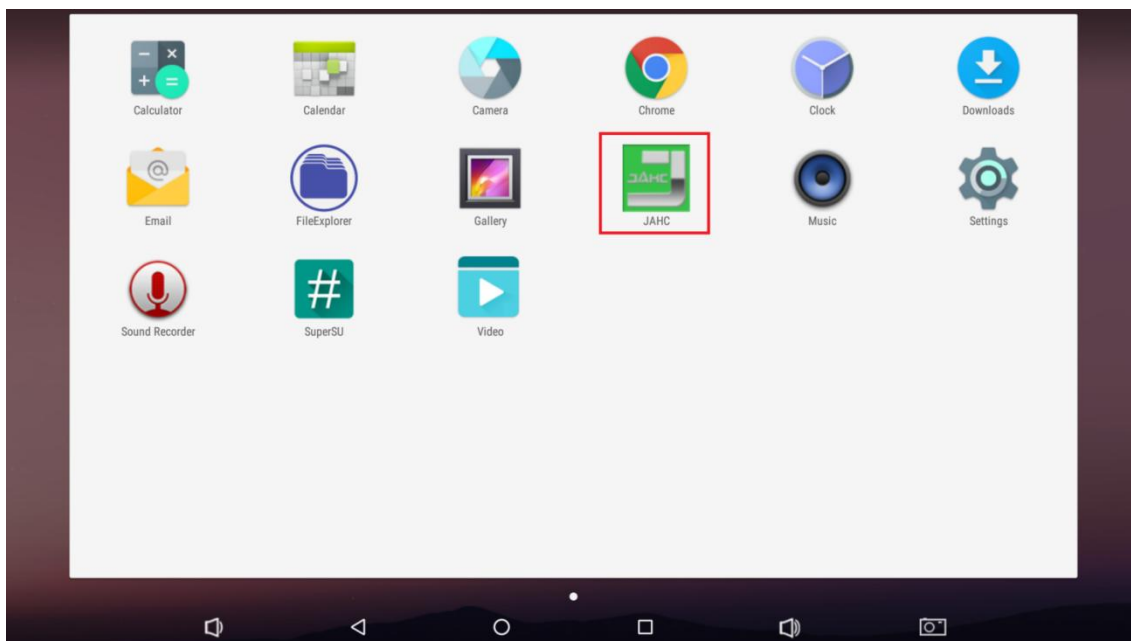
5.1 JAHC APP functions

The user can set up automatic startup and shutdown, one week as a circle

5.2 Startup (open) & shutdown (close) time setup

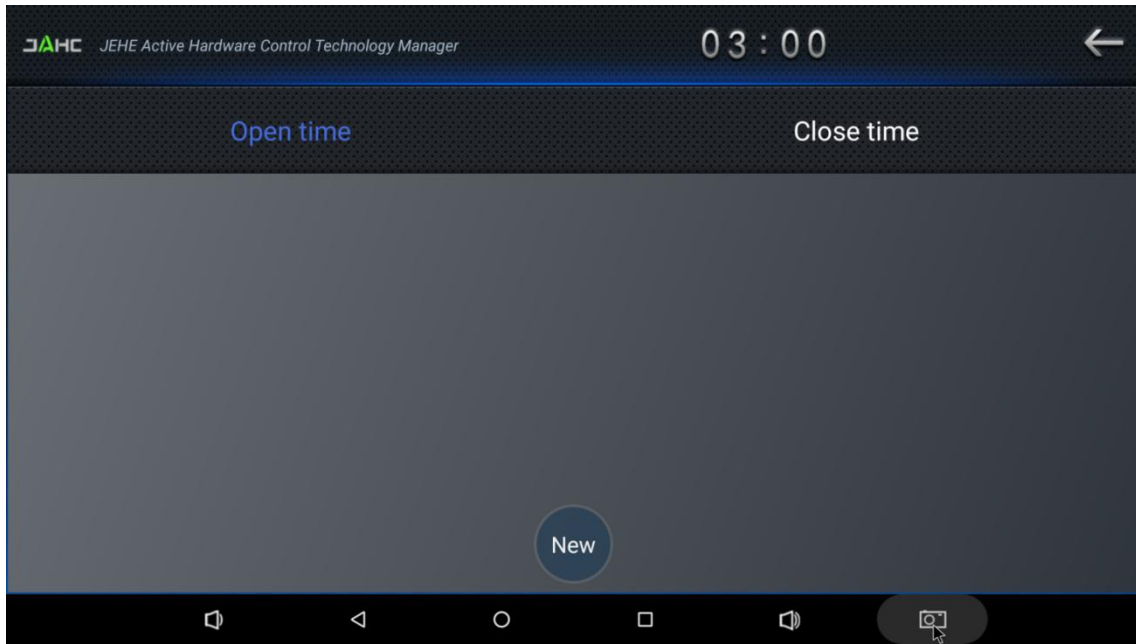
System Requirements:

- Giada player with JAHC APP function.
- Android OS includes JAHC APP (please refer to Fig1) .



(Fig1)

a. After enter the Android desktop, click the JAHC APP icon and the JAHC interface will pop up (please refer to Fig2)

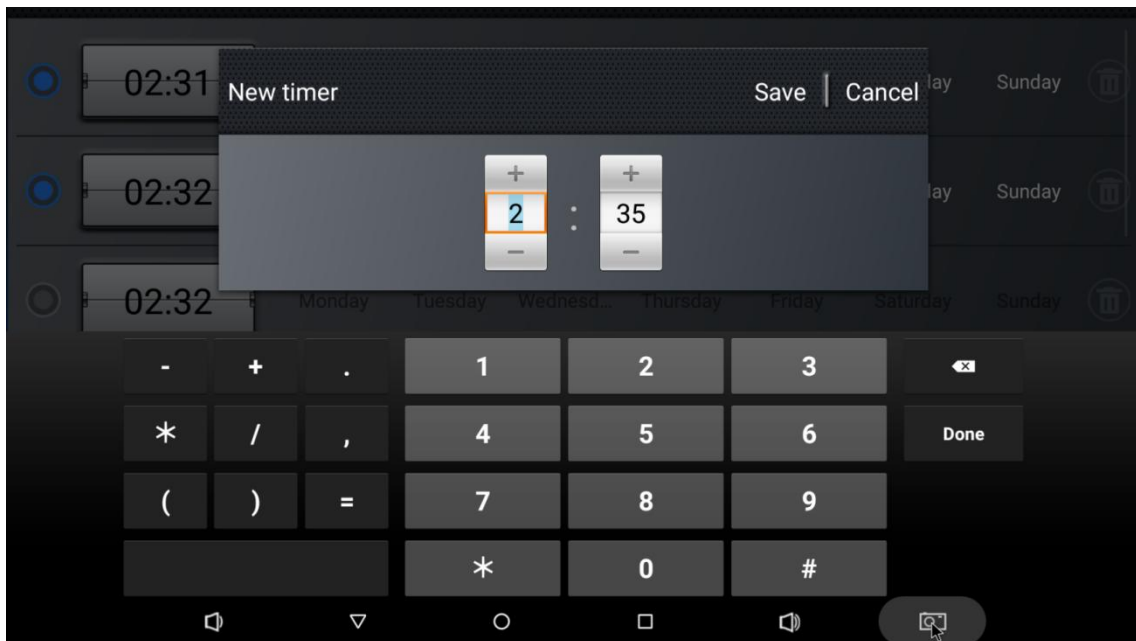


(Fig2)

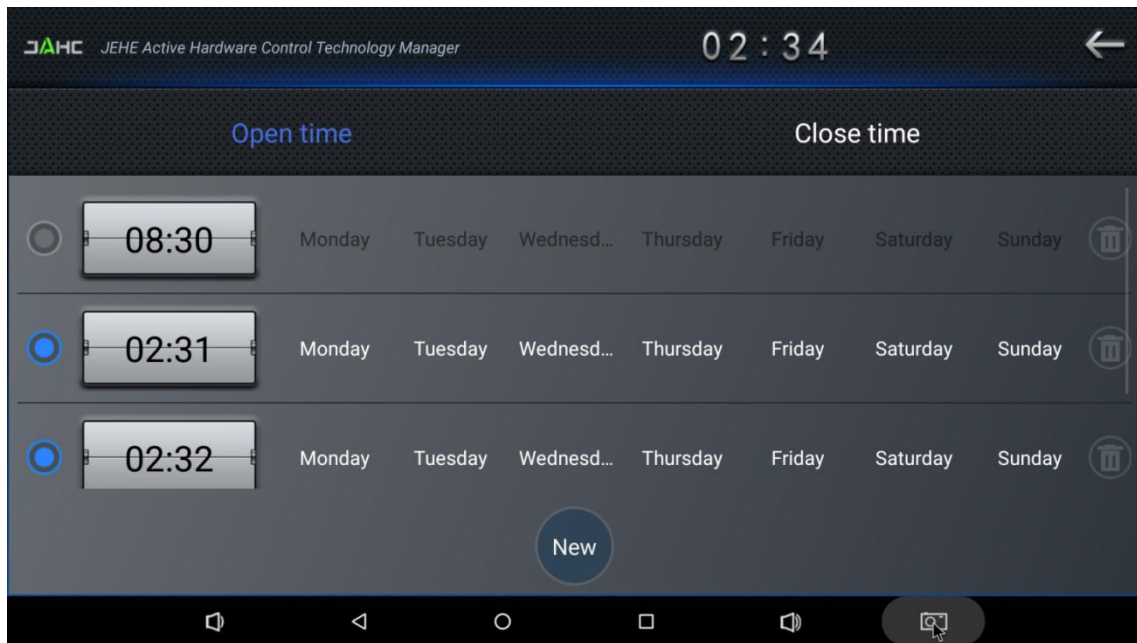
b. Click 'New' button to set open time (Fig3) and then click Close time button to set close time. One week as a circle, maximum 3 schedules per day. Select each schedule to set up the Open time and Close time.

c. After finishing the setup, click circles to launch the schedule.

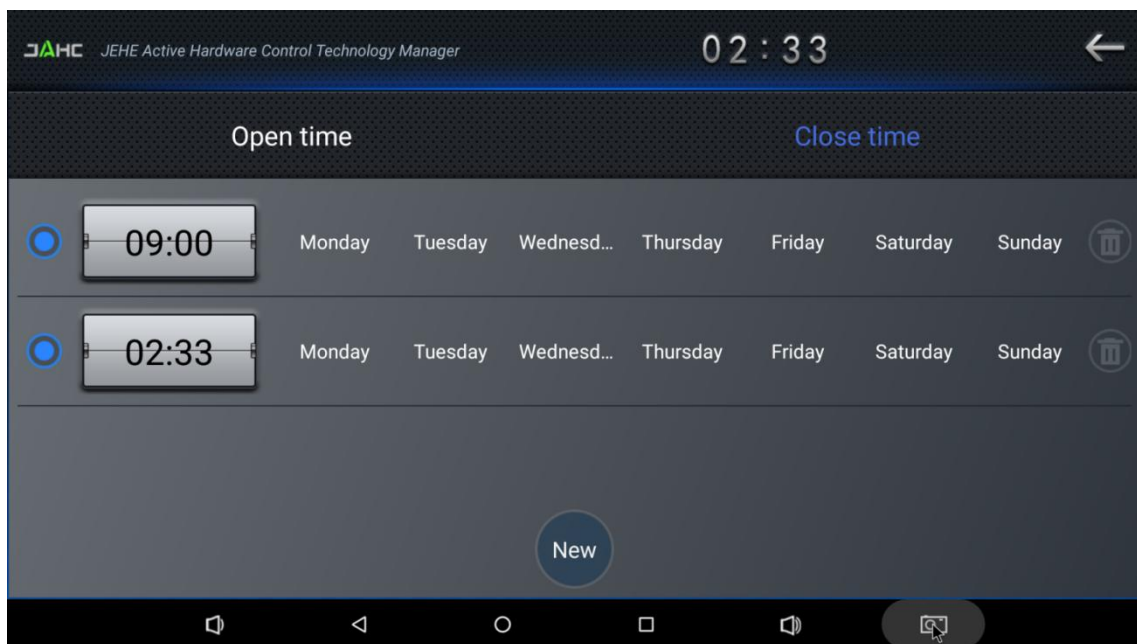
User can click delete to remove the schedule.



(Fig3)



(Fig4)



(Fig5)

⚠ Caution: If the interval from shutdown time to next resume time is less than 3 minutes, the system will not shut down.

6. ADB SOP

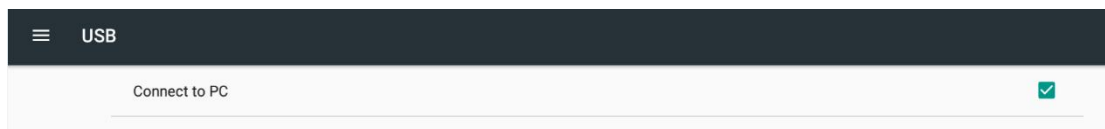
The user can debug APP with ADB driver by below steps:

a. Use command ADB version to check if Windows ADB tool is installed.

```
Admin: C:\Windows\system32\cmd.exe
C:\Users>adb version
Android Debug Bridge version 1.0.31
C:\Users>
```

b. Install Rock chip driver.

- Connect DN83 with windows PC host by OTG cable.
- Select 'Connect to PC' under android OS->Settings->USB->connect to PC.
- Then you can use ADB shell command to enter ADB.



```
Admin: C:\Windows\system32\cmd.exe - adb shell
C:\Users>adb shell
rk3288 _all:/ $
```



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Beihuan Blvd., Nanshan, SZ, China, 518051



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