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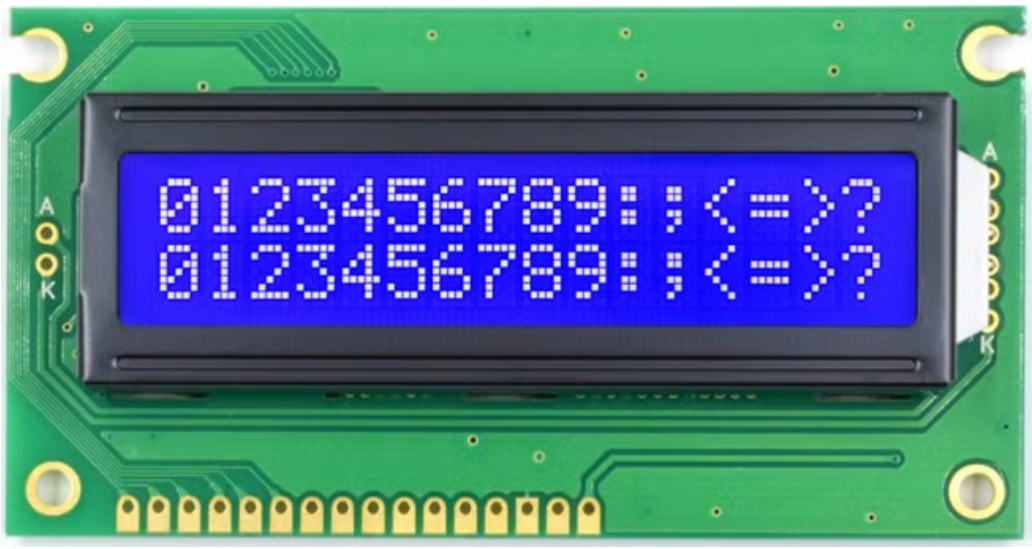
Chenhang

Chenhang MTR-L3200X Charcter LCD Display Module



Product Information

Specifications

- LCD Display
- Model: MTR-L3200X
- Power: 220V
- Interfaces: HDMI, USB

Chapter One: Precautions

1. All descriptions of the advertising machine in the manual are illustrations and words, which may be slightly different from the real thing, please refer to the real thing!
2. The power switch of the advertising machine should be located in a position that cannot be reached by children to prevent the danger of children touching the power switch.
3. The power plug should be fully inserted into the socket, if not fully inserted into the socket, it will cause a fire due to heat.
4. If the machine does not work for a long time, please unplug the 220V power supply.
5. Do not disassemble or repair the equipment by yourself to prevent high-voltage electric shock or other dangers.
6. Do not expose the equipment to rain and sun, so as not to affect the normal use.
7. Do not plug the ventilation and heat dissipation holes and sound holes of the machine.
8. Do not place the network terminal near a radiator or other heat source equipment.
9. When cleaning the machine, please unplug the power cord first and ensure that the

machine is in the state of power off; When cleaning the LCD screen of the machine, do not use spray directly.

10. Before opening the machine, please read the instructions carefully to prevent damage to the machine.

Special note: If the board has two kinds of external USB interfaces: HOST and OTG/HOST, it can be used under normal circumstances
HOST port or extension port. Do not use OTG/HOST as a peripheral interface for a long time (insufficient stability). This interface can be used for temporary debugging of the machine.

Chapter two: Product overview

This scheme is an intelligent terminal control board based on Android 11 operating system, and the CPU uses Ruixin RK3568 intelligent chip. High performance, low power consumption; Support LVDS dot screen (1920X1080 and below resolution), EDP dot screen (1920X1080 and below resolution), MIPI dot screen (1200X1920 and below resolution), support 4K decoding, support HDMI2.0 output; Support remote control switch and network timing switch; Support touch screen, mouse, keyboard, key pad, serial port and other devices connection; Realize seamless switching of HD video, automatic rotation of video horizontally and vertically and multi-template one-click free split screen playback, support multi-segment timing and streaming subtitles; This scheme can be better adapted to other publishing systems.

Chapter three: Android system interface

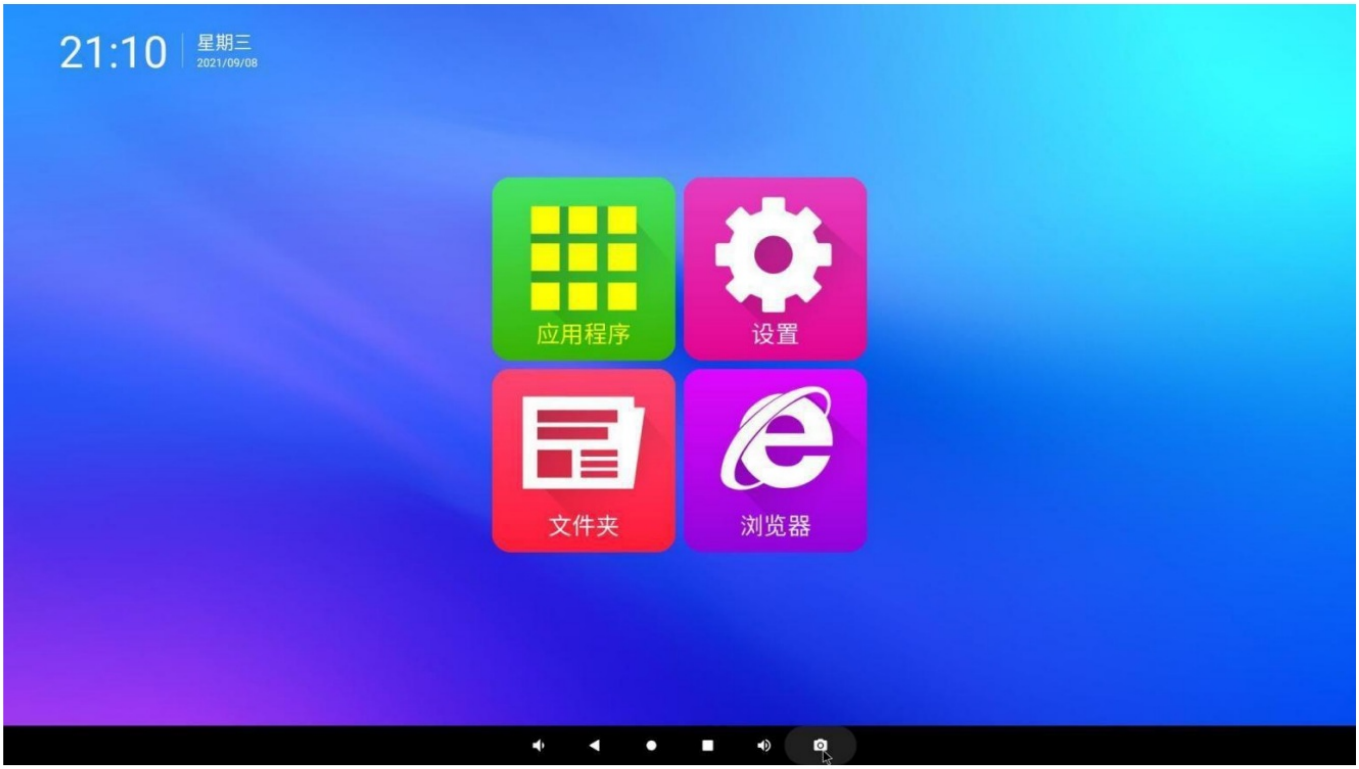


Figure 3.1 Main menu interface of Android system

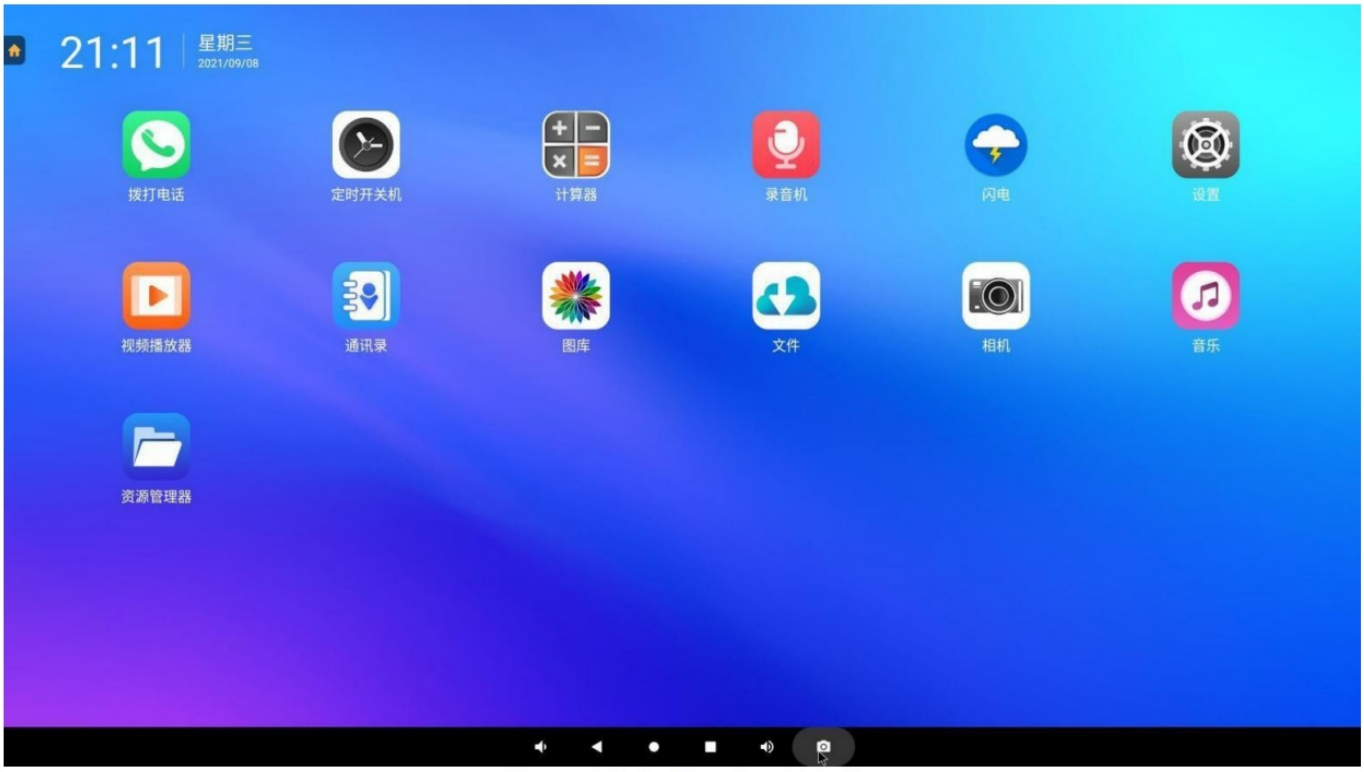


Figure 3.2 Application interface

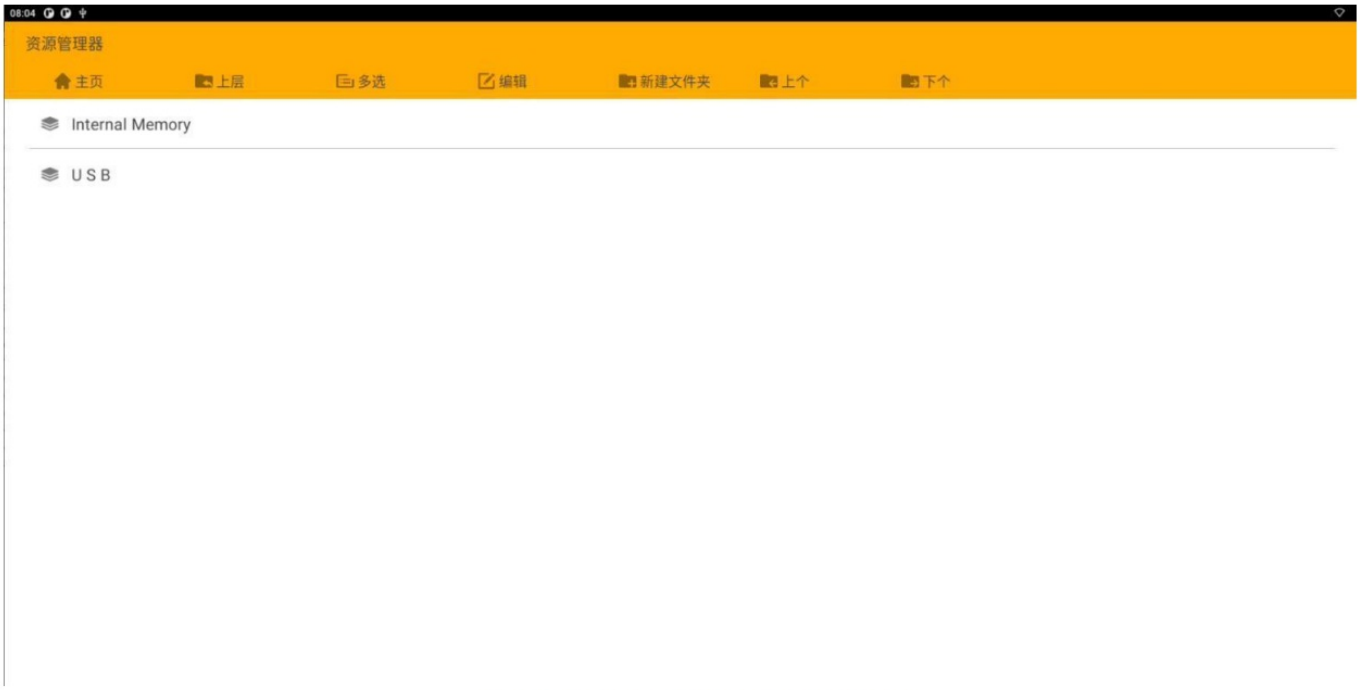


Figure 3.3 File management interface

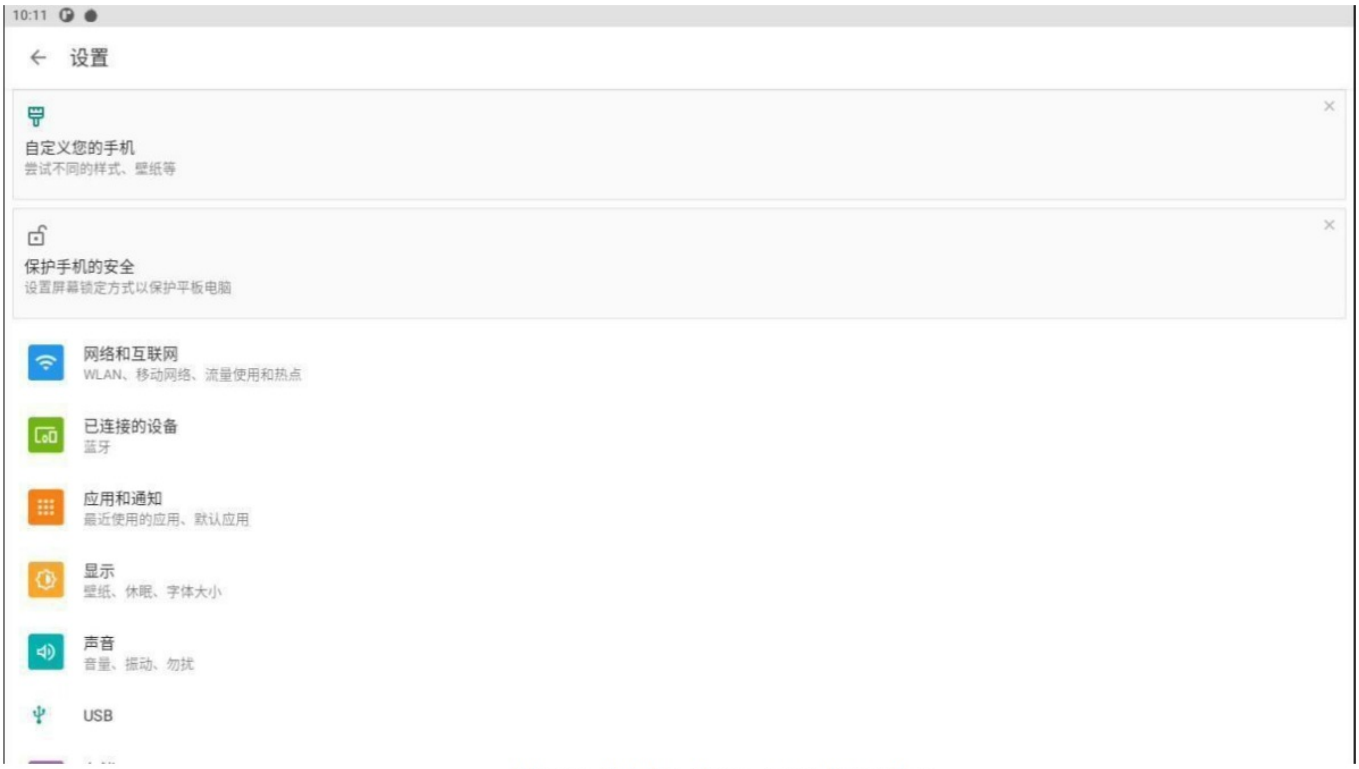


Figure 3.4 Settings menu interface

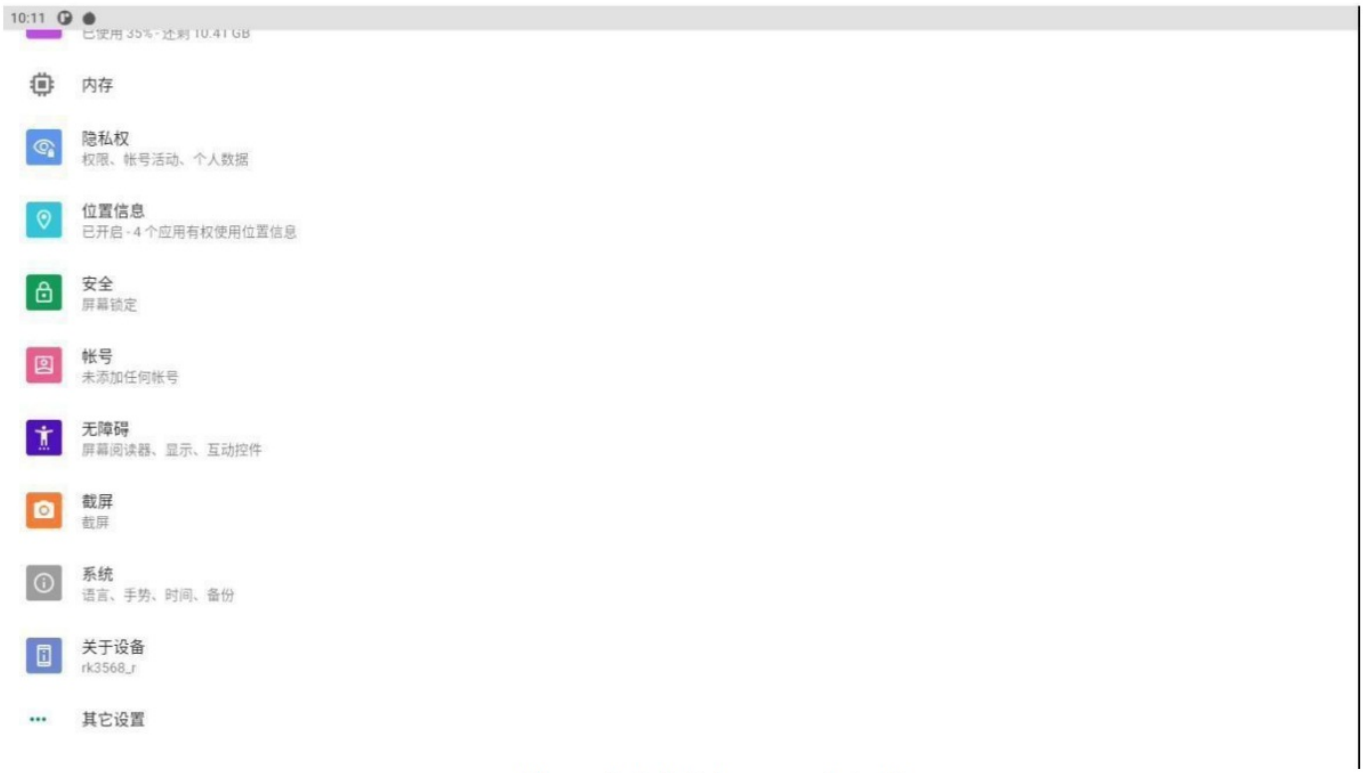


Figure 3.5 Setting menu interface

Chapter four network terminal interface

- DC block: Connect the 12V power adapter

- HDMI socket: HDMI1080/2160P@60Hz output

- USB port: Connects to USB devices such as computers, U disks, mice, and touch screens

- Ethernet socket (LAN) : Connects network cables
-

TF card: Connect the TF card

- Headphone socket: Connect headphones or speaker audio devices

Headphone socket: Connect headphones or speaker audio devices

Chapter five network signal connection

WIFI Network signal connection

Right picture Need to add WIFI-2.4G/5.8G antenna, customers according to their own needs to increase the corresponding strength of the antenna (the red box to insert the antenna). As shown below, turn on the WIFI switch; Select the WIFI you want to connect to Signal, and enter the corresponding password, you can successfully connect

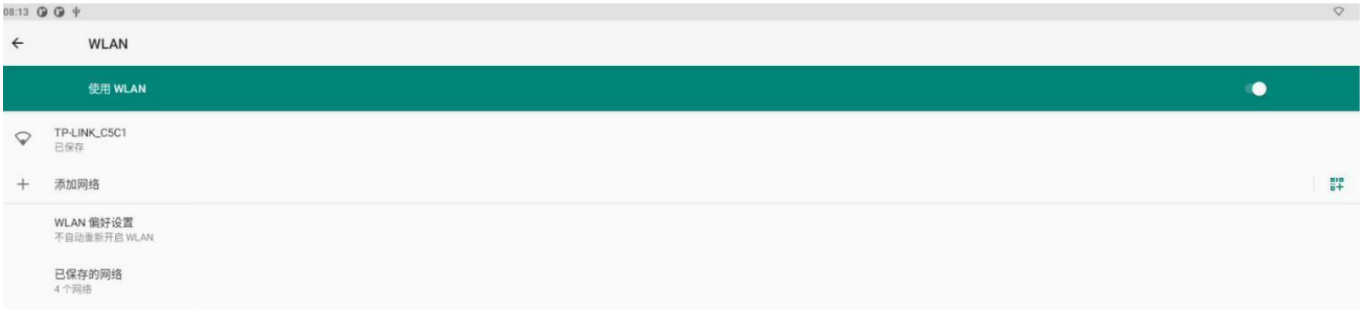


Figure 5.1.1 WiFi setting interface

Note: WIFI signal availability and coverage depends on the number of signals, antenna performance, and external environment.

Bluetooth signal connection

Enter “Settings – Connected devices – Pair with new devices”, and the Figure 5.2.1 interface will be displayed.

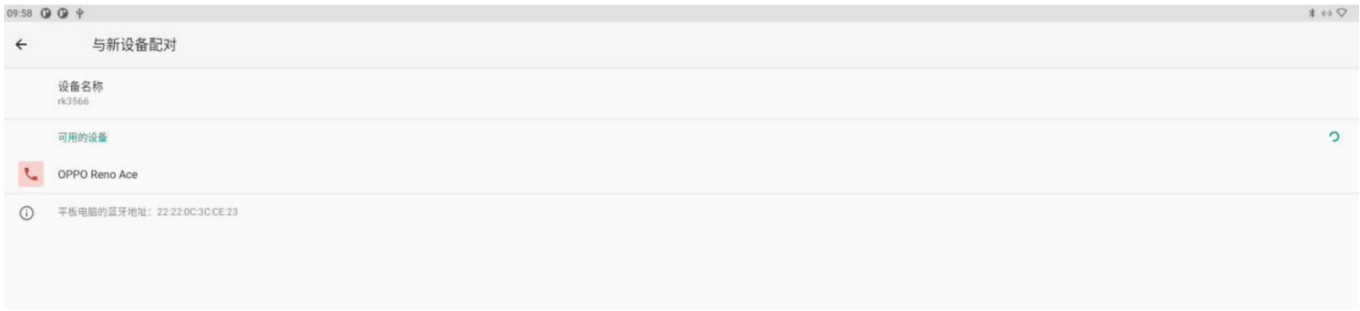


Figure 5.2.1 Bluetooth setting interface

After turning on Bluetooth, it will automatically search for nearby Bluetooth devices, and tap the Bluetooth device found in the available devices

Pairing connections are available. Once the search is complete, you can refresh, rename your device, and view files received by Bluetooth in more options at the top right corner of the Bluetooth Settings page. When receiving the file, the following interface prompt will appear, click the received file, and then confirm the acceptance.

Figure 5.2.2 Bluetooth file receiving interface

Ethernet Connection

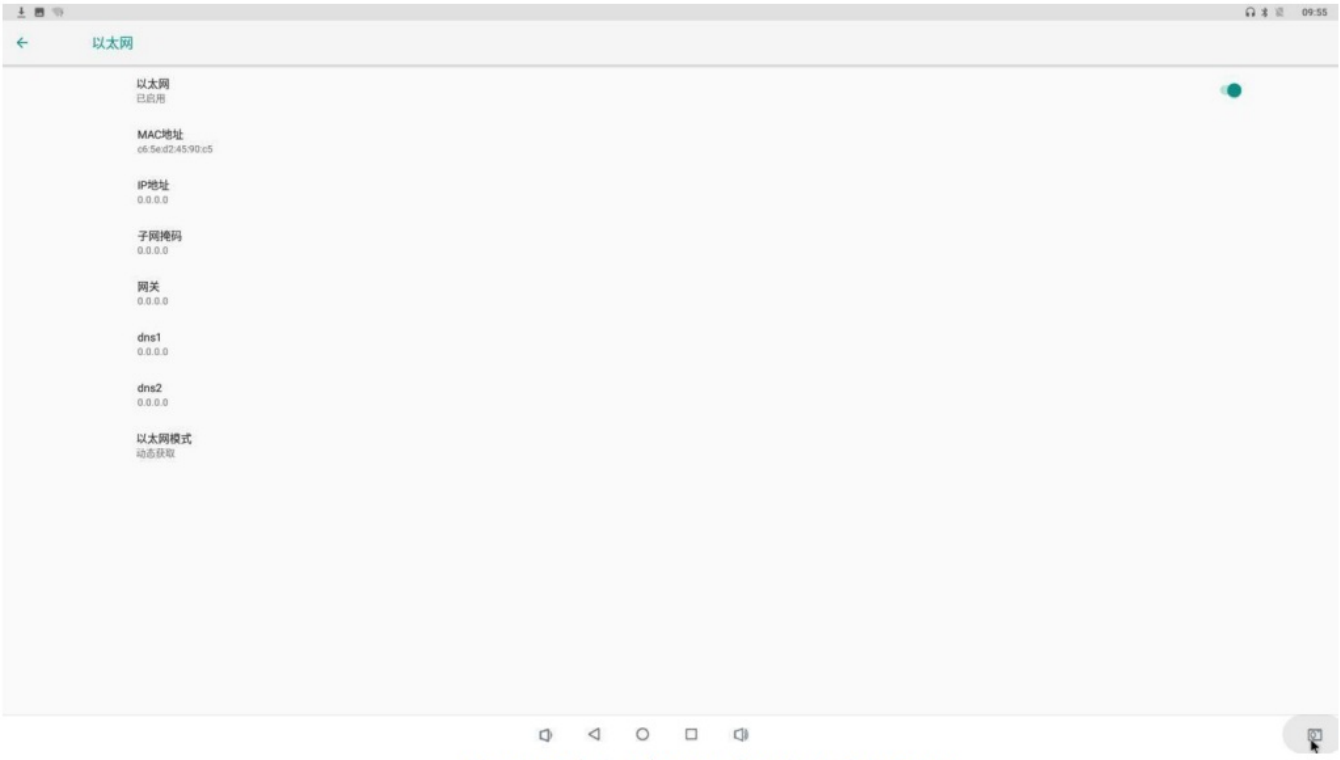


Figure 5.3.1 Ethernet Settings interface

Plug in the network cable, turn on the Ethernet switch in the Wireless and network Settings page, and the system will automatically obtain the IP address. The Ethernet connection is successful, as shown in the figure.

Note: The Ethernet MAC address is the only permanently valid device ID on the system.

Chapter six Android system reset

Enter “Setup – System – Reset option”, select “Clear all data (restore factory Settings)”,

click “Clear all data”, after the machine restarts automatically, the system will restore factory Settings.

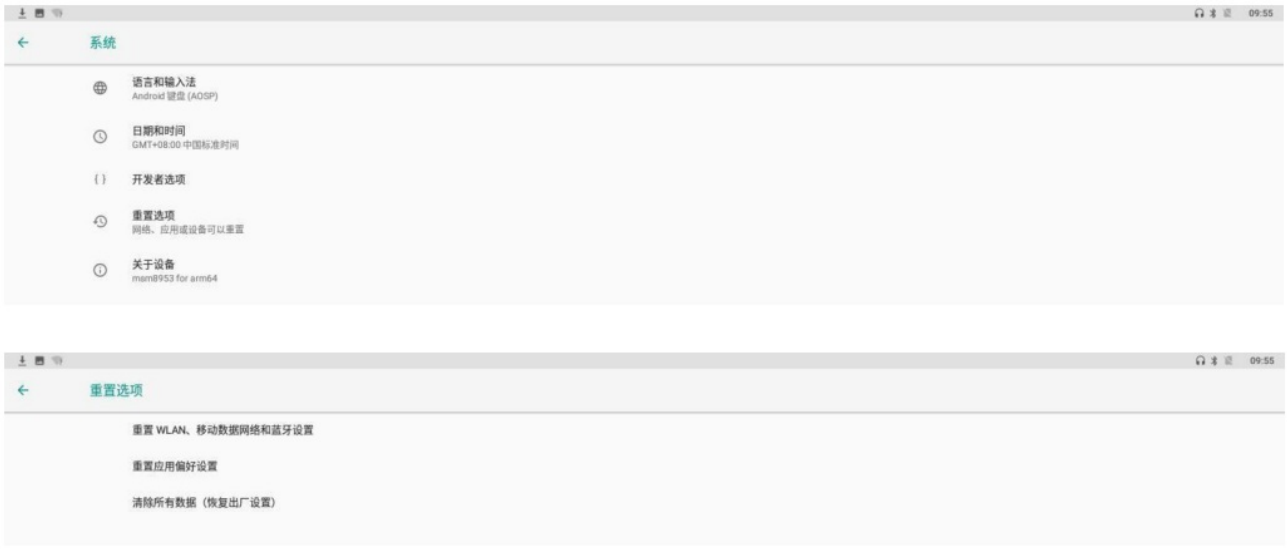


Figure 6.1 Restore factory Settings

Note: Restoring factory Settings will clear all third-party applications, user Settings, multimedia, and files. Exercise caution when performing this operation.

Chapter seven Timing switch

- In the application, open the timer switch application

and enter the interface in Figure 7.1. Timing switch mode:
- Daily mode: The system switches on and off based on the time set in this time range every day. You can set five time ranges every day.
- Weekly mode (week mode) : The machine will be switched on and off according to the time set in this event segment every week, and five different periods can be set in seven days a week.
- Network mode: A third-party application broadcasts the on-off time. After receiving the broadcast, the local timing application consults the on-off time according to the delivered time. Clear timing data: After clicking this button, all previous timing Settings will be cleared.
- After the shutdown time, the system will send out a 30S countdown, as shown in page 7.4.
- When the countdown ends, the system will automatically shut down. During the shutdown time, after manually starting the machine and entering the system, the

system will release the shutdown countdown after 2 minutes of startup, so as to avoid accidental startup or temporary need to start the machine to cancel the scheduled task.

Attention:

1. When the default mode is enabled, the weekly mode is invalid, that is, the default mode has the highest priority.
2. The time setting must be the logic of starting time before and shutting down time after.
3. After some distribution systems are installed, the timing switch function depends on the timing switch of the distribution system.
4. Web mode is only available for Android app developers.

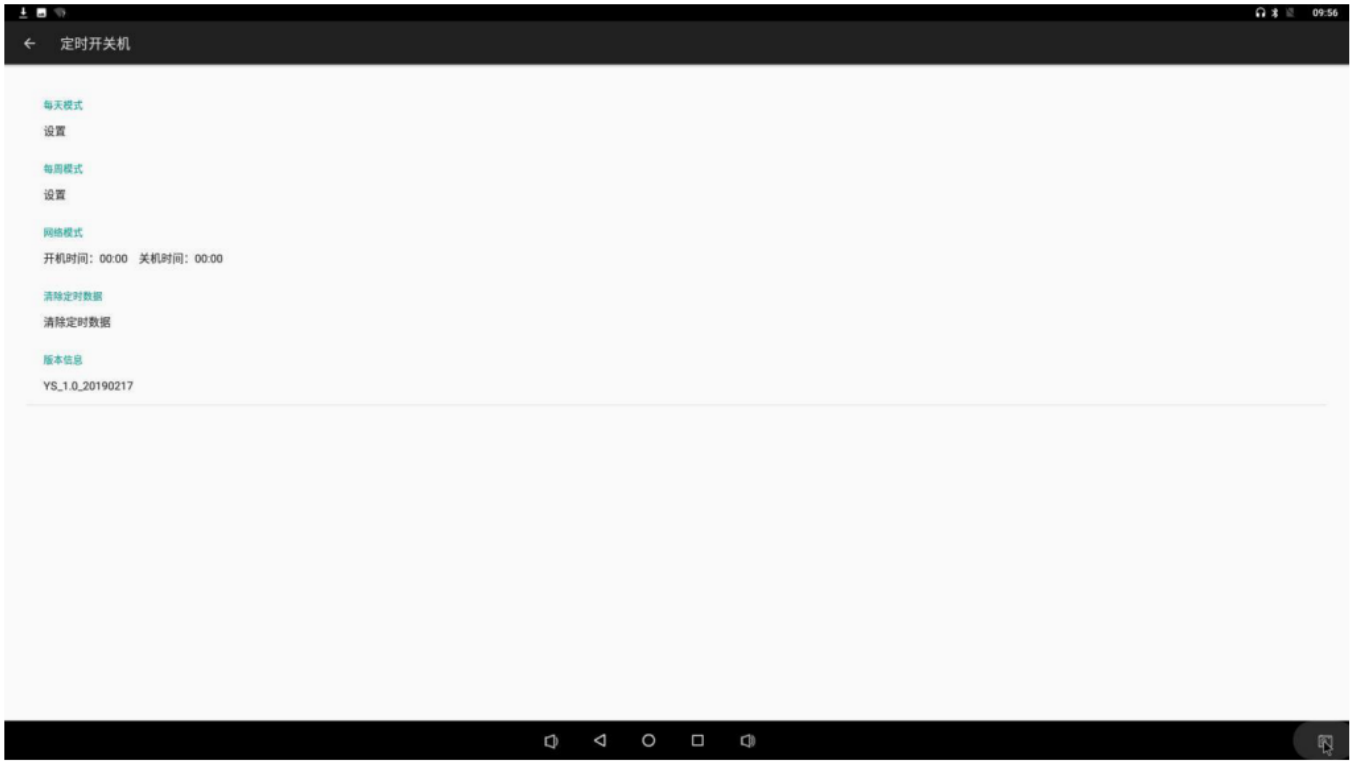


Figure 7.1 Setting interface of timing switch

Figure 7.2 Daily mode timing switch Settings

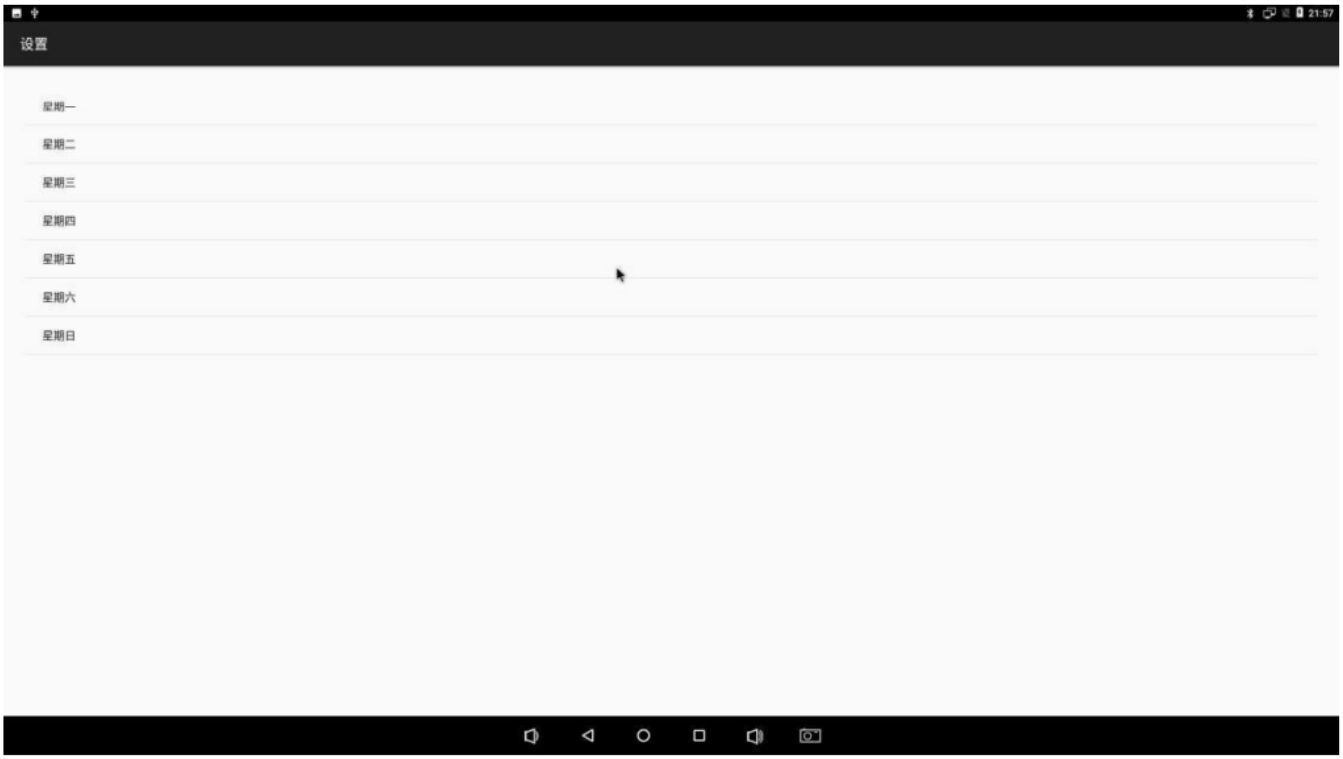


Figure 7.3 Weekly Mode setting screen

Figure 7.4 Timer switch countdown interface

Chapter eight Video player

Open the video player application in the application, which can realize the loop playback of video programs in the built-in storage, U disk and TF card.

Figure 8.1 Video player interface

Chapter nine Hiding the Status Bar

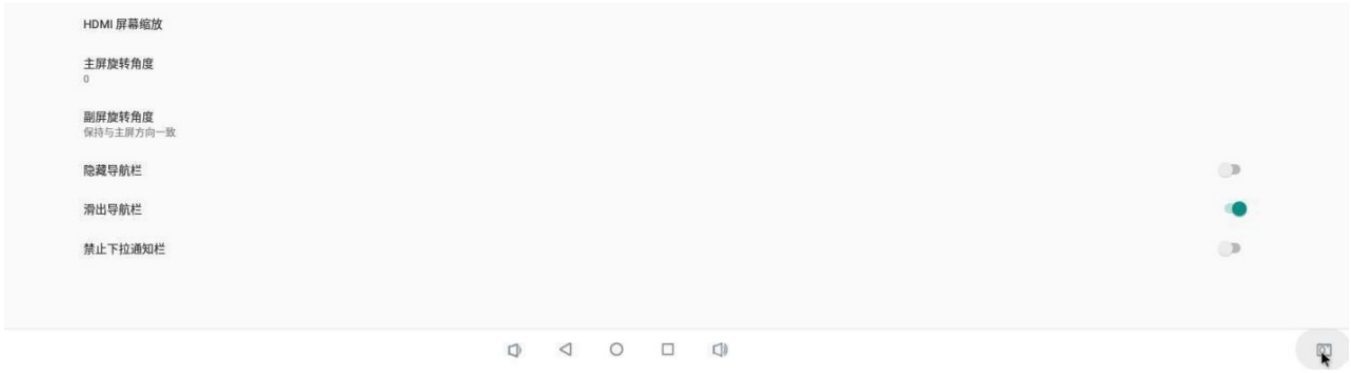


Figure 9.1 Hidden status bar setting interface

In the Settings, select “Show” and select “Hide Status bar” to hide the status bar. Select Slide Out of the navigation bar. You can slide the mouse upward to slide out of the navigation bar. After no operation for 5 seconds, the navigation bar disappears. If do not drop the notification bar is selected, the notification bar cannot be dropped.

Figure 9.2 Notification bar interface

Note: When using the publishing system, the status bar will cause the publishing system to read the resolution error, you can hide the status bar.

Chapter ten Viewing System Information

Viewing storage information

In Settings, select “Storage” to enter the interface shown in Figure 10.1.1, which displays the storage information of the internal storage space. Internal storage shared space. The total capacity is the available storage capacity of the board.

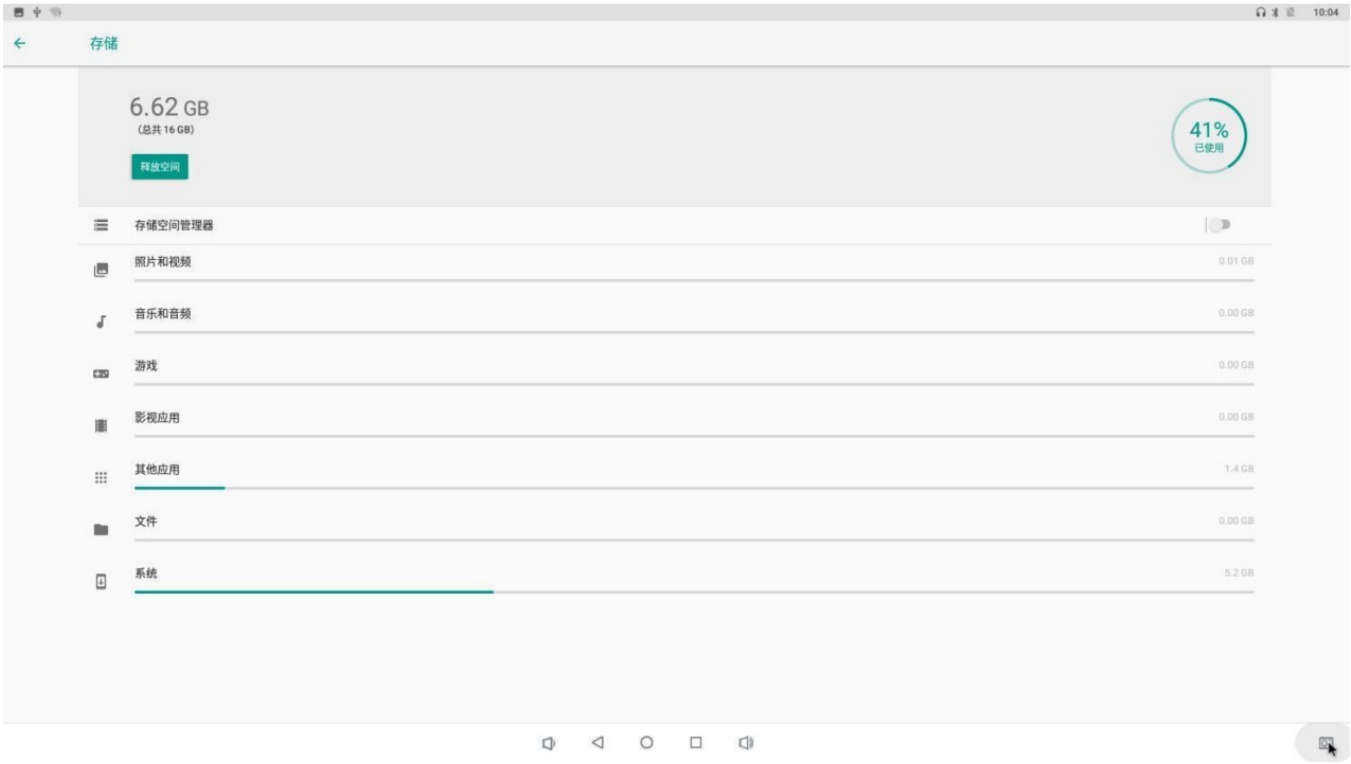


Figure 10.1.1 Storage information interface

Memory information

In the Settings, select “Memory” to enter the interface in Figure 10.2.1. You can click the upper left corner to select the memory usage of the device in recent hours.

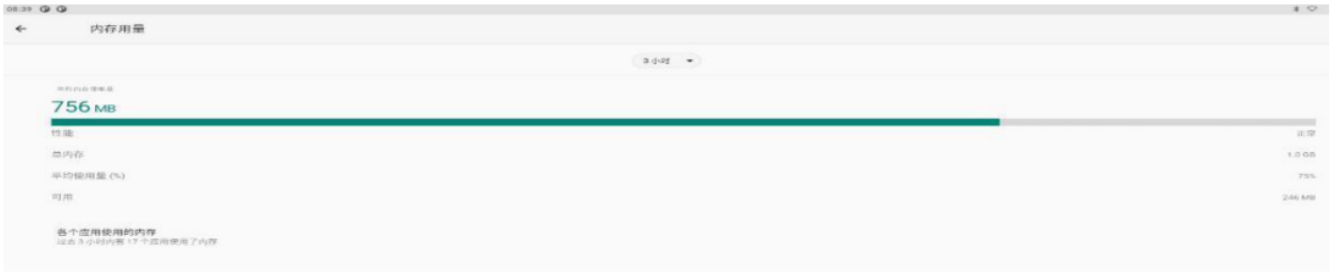


Figure 10.2.1 Memory information interface

About device viewing

- In the Settings, select “About Device” to enter the interface in Figure 10.3.1, where:
- Processor Type indicates the model of the current chip.
- Android Version indicates the Android version of the current operating system.
- Version Number indicates the version number of the current system software.

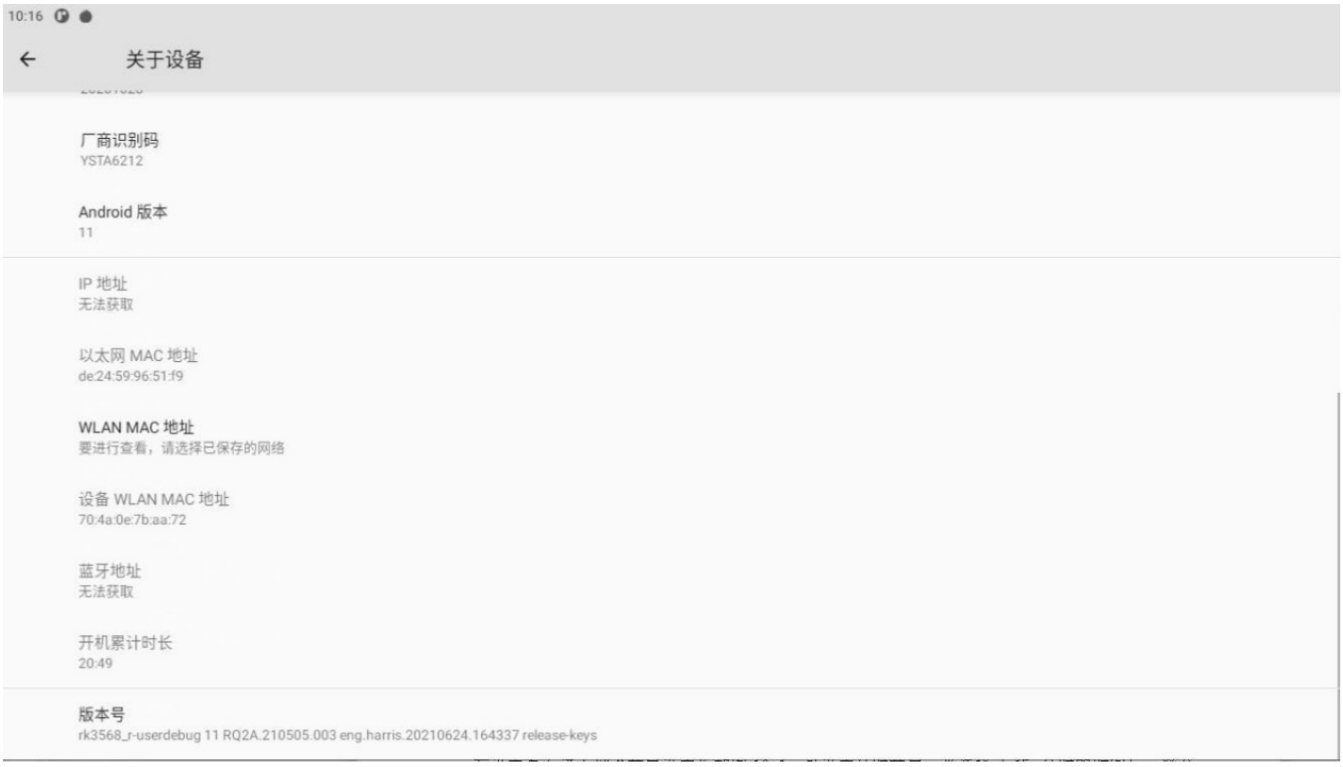


Figure 10.3.1 About the device interface

Chapter eleven Screenshot Settings

In the setting page, enter the “Screenshot Settings” as shown in Figure 11.1, you can set the delayed screenshot. When the 15S delay time is selected, the screenshot will be automatically taken after 15S. After you tick the box next to “Show screenshot button on status bar”, you can see the button pointed by the arrow in Figure 11.2 in the navigation bar below when the hidden status bar is turned off. Click to take a screenshot.

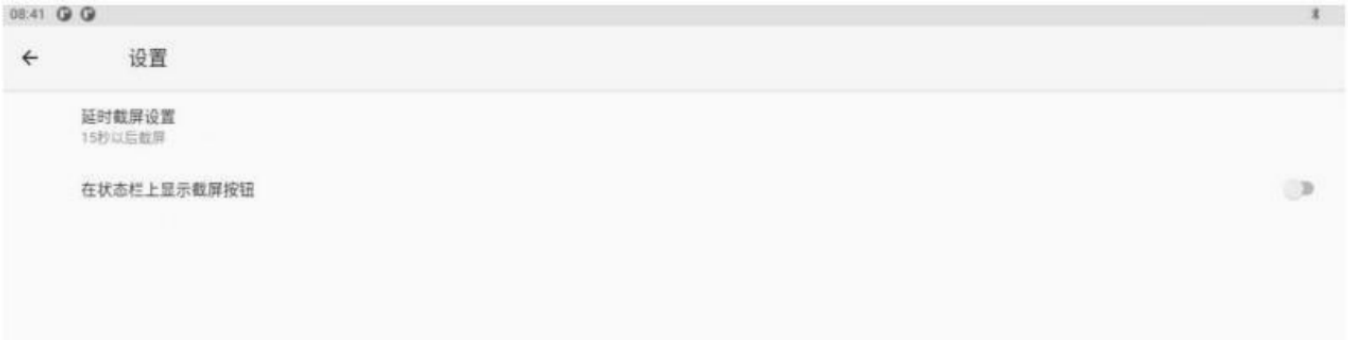


Figure 11.1 Screenshot Settings

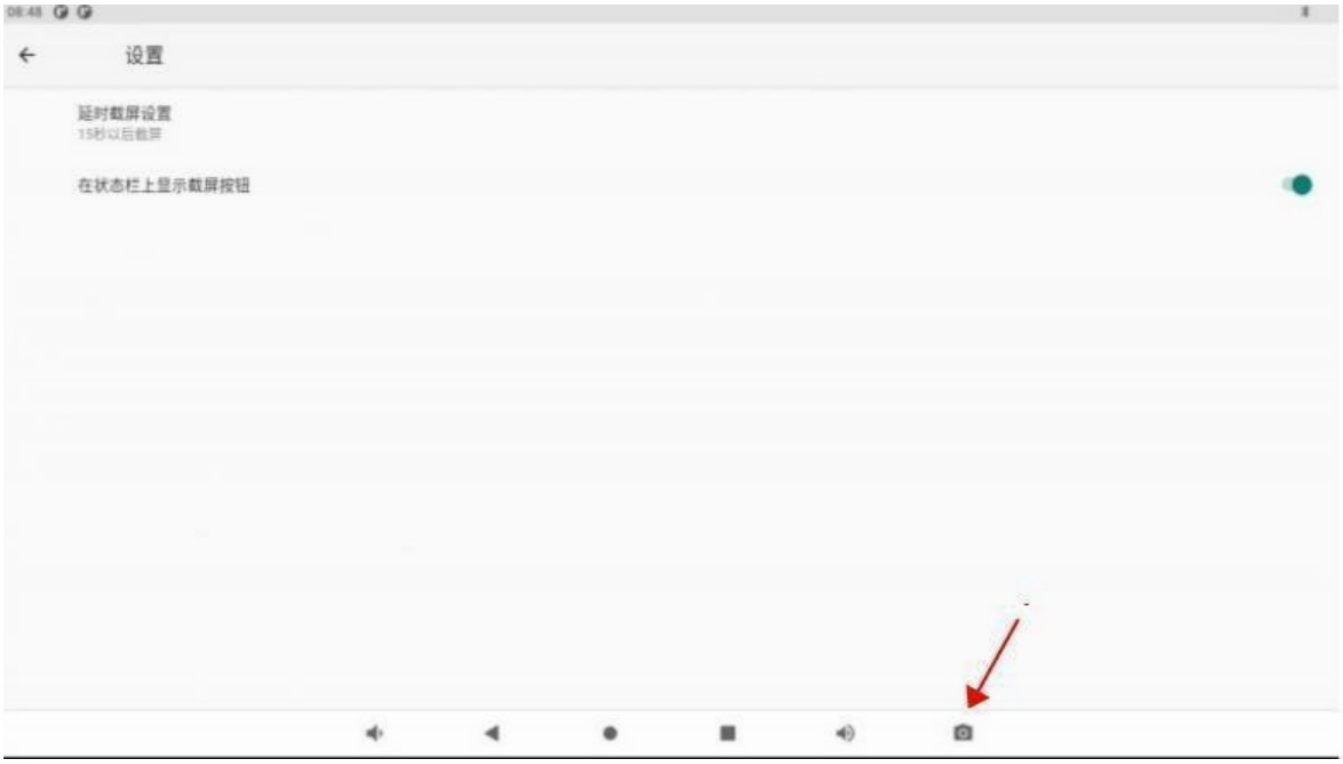


Figure 11.2 Screenshot button

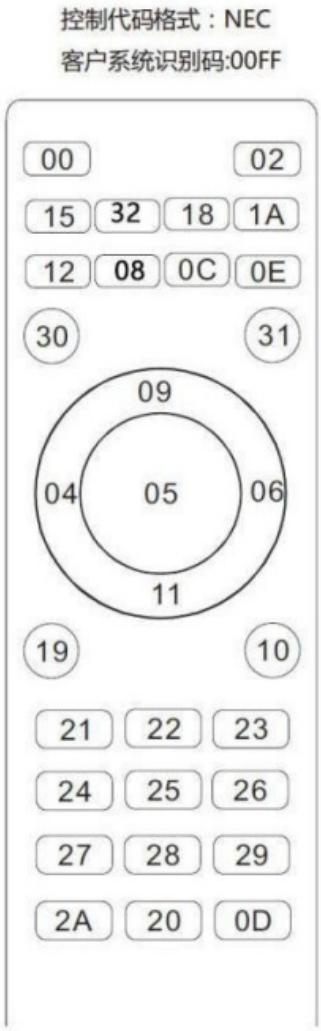
Chapter twelve common fault analysis

1. The machine has a black screen and no backlight. Check whether the 220V voltage is normal and whether the power cable is connected to the external power cable.
2. The machine screen is backlit, and there is no normal display screen. Please confirm whether the screen parameter is correct or contact the manufacturer to debug the screen.
3. If there is no sound after the device is powered on, check whether the volume is set to the minimum and the mute switch is turned on.
4. After starting the debugging USB, the peripheral cannot be connected, power off or uncheck the debugging USB with the remote control.
5. The remote control does not work, check whether the remote control battery is installed or whether the battery is powered.
6. The machine time display is not allowed, connect to the network, and then open the network automatic update time.
7. This advertising machine is an intelligent chip control device. In addition to the above problems, the reconnection still cannot work normally. Please contact the supplier or professional maintenance technician for processing.

The company has the right of final interpretation of this manual!

Chapter thieteen Remote control key description

Chapter fourteen Remote control code values



FCC WARNING

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not

installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.
If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

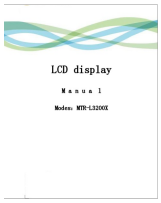
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum 20cm distance between the radiator and your body: Use only the supplied antenna.

FAQ

- **Q: Can the device be left plugged in for extended periods?**
  A: It is recommended to unplug the device if it will not be used for a long time to prevent any potential hazards.
- **Q: How should I clean the machine?**
  A: Before cleaning, make sure to unplug the power cord and ensure the machine is powered off. Avoid spraying cleaning solutions directly on the LCD screen.

Documents / Resources

	Chenhang MTR-L3200X Charcter LCD Display Module [pdf] Instruction Manual MTRL3200X, 2BKVM-MTRL3200X, 2BKVMMTRL3200X, MTR-L3200X Charcter LCD Display Module, Charcter LCD Display Module, LCD Display Module, Display Module

References

- User Manual

Chenhang

2BKVM-MTRL3200X, 2BKVMMTRL3200X, Charcter LCD Display Module, Chenhang, Display Module, LCD Display Module, MTR-L3200X Charcter LCD Display Module, MTRL3200X

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