12.3" Android Rear Seat Entertainment System

USER'S MANUAL

INTRODUCTION

The scheme is created based on 64 bit Amlogic972 Android chip, Cotex A55 1.8GHz Deca-core CPU, Android operating system, which supports Android Mobile Phones and iPhone Wireless Miracast/Airplay, built-in 3GB DDR4 and 16GB memory. It processes powerful multimedia audio and video processing capabilities, supports 4K/8K ultra high definition video playback, built-in graphic processing unit, and capacitive touch screen. The scheme uses high-performance Wi-Fi. Core board external interface has USB, TF, HDMI and earphone, with strong extensibility and a slim design, which is able to meet the demands of various car systems.

SPECIAL FEATURE

A. Various signal interfaces, no external chip expansion required

Support HDMI, Video input, TF card, USB.

HDMI	AV INPUT	USB 2.0	TF
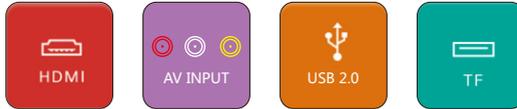
B. Built-in quality image processing engine

MACE-PRO4 image processing engine can eliminate noise from TV or network video, remove the loss of details and color in video signal transmission, thus improve picture quality, recover all the content details and restore natural and detailed image of the world.

UCNR	CCS	DHD	DBK	EODI
Ultra-clear and decrease noise	Inhibition of cross-color	Elimination of suspended noise	Dynamic elimination of color blocks	Edge-by-line processing
UCDI	DS	CTI	LTI	FCC
Ultra-clear line by line processing	Smooth scaling	Color sharpening	Brightness conversion and upgrade	Skin color correction
ICC	IBC	BLE/WLE	BS	
Independent color saturation adjustment	Independent brightness adjustment	Contrast enhancement	Blue-color extension	

SPECIAL FEATURE

**C. Super multimedia processing capability,
support max 4K/8K H. 265 video**

**Support
Full format**

**Ultra HD
4K**　　**Ultra HD
8K**

Audio and video format　　　　　　　H. 265

Ultra HD 4K/8K, HD smooth

D. Support mobile phone wireless Miracast

Support Android Miracast, iphone Airplay wireless Miracast.

TECHNICAL SPECIFICATIONS AND PARAMETERS

Product Name	12.3" Automobile Business Entertainment System
Pixel Resolution	1920(W) x 3(RGB) x 1080(H)
Output Port	Audio: stereo Video: complex video signal output (AV) USB port MS/MMC/SD card port
Video System	PAL / NTSC / AUTO
Power Voltage	DC 12V/1.5A
Power Consumption	About: 12W; Rating Circuit: 800mA; Rating Power: 9.6W
Working Temperature	-20°C ~ +60°C
Working Humidity	15~75% (No water drop is coagulated)
Video Decoder	Support HEVC / H. 265 3840 ×2160@60 fps DXVA Support H. 264 decoding 1080P @60 fps Support SVC decoding 1080P @60 fps Support MVC decoding 1080P @60 fps Support H. 263 decoding, max image resolution is 720×576 Support Sorenson Spark decoding 1080P @60 fps Support MPEG-4 decoding 1080P @30 fps Support MPEG-2 decoding 1080P @60 fps Support MPEG-1 decoding 1080P @60 fps Support MPEG-2 decoding 1080P @60 fps Support VC 1 decoding 1080P @60 fps Support JPEG decoding Support RV decoding 1080P @60 fps Support VP 6 decoding 1080P @60 fps Support VP 7 decoding 1080P @60 fps Support VP 8 decoding 1080P @60 fps Support WebP decoding 1080P @60 fps Support AVS+ decoding 1080P @60 fps Support RMVB decoding 1080P @60 fps
WIFI	2.4G/5G WIFI
HDMI	Support HMDI 2.0/1.4 b Support HDMI ARC function Support one input of MHL3.0/2.1
USB	Support 2-way high-speed USB 2.0 Host
TF Card	Support high-speed SDIO 3.0 Support max capacity of 1TB
Audio	Support stereo audio input Support stereo earphone output Built-in 2X5W@4 ohm Speaker
FM Transmission	Support stereo audio transmission, freq 76 MHz-108 MHz can be chosen
Infrared	Support stereo infrared transmission
Other Hardware Features	Automatically enter the sleep or shutdown mode upon closing ACC Low battery monitoring protection system Prevention of reversing the power supply Support max 36V voltage input
Software Features	Operation system: Android Support Android/Iphone wireless Miracast

FUNCTION INTRODUCTION

1. LED Settings
2. Function of Android system to return to the previous level
3. Back to main interface of Android system
4. Shortcut icon function (slide each process to end)
5. Short press to turn on and long press to turn off;
   Short press to turn off the display screen when working
6. Shortcut operation
7. Hidden icon
8. Water light
9. LED light
10. System settings
11. HDMI input
12. Reset
13. TF card interface
14. USB interface
15. Earphone interface
16. DC 12V input (1.5A)

INSTALLATION

Plastic Ring
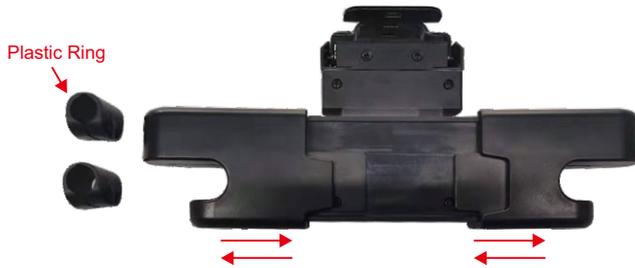
1. Adjust the bracket spacing to the left/right,adjust the spacing to proper car
   model pillow pipe, then the bracket snaps into pipe.

Switch Lock

2. Open the switch lock of adjusting direction, move forward and backward
   adjust to appropriate length, then lock the switch lock.

SYSTEM SETTING

A. Language setting

Click "setting" button under the menu and choose "Language & input".
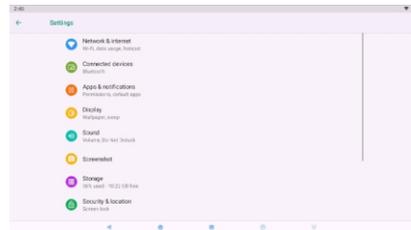
Select "Language" project and then select corresponding language.
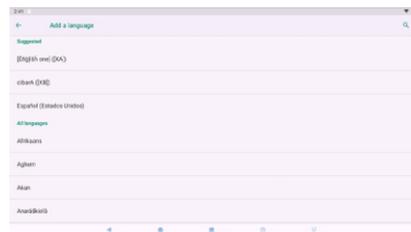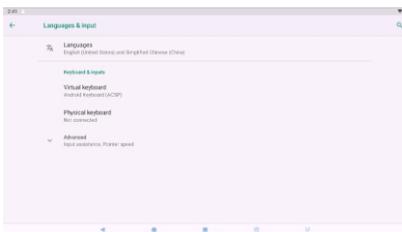
B. Function setting of Wi-Fi

Click "settings" button under the main menu and open "Wi-Fi" and select suitable access source.
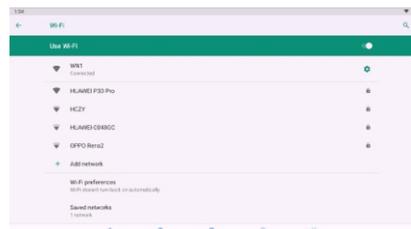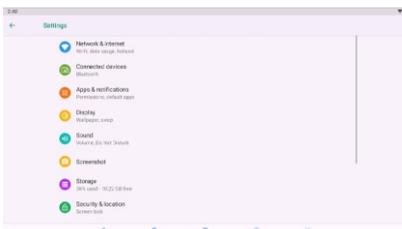
SYSTEM SETTING

C. Setting of car logo

Click "settings" button under the main menu, select "Display" and then click "Boot logo" and input password "ANDRSE" and then select corresponding car logo (show changed car logo after restarting).
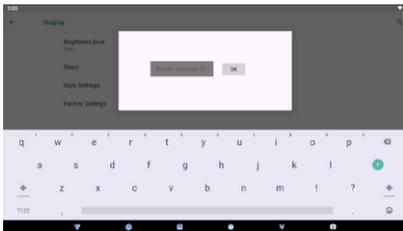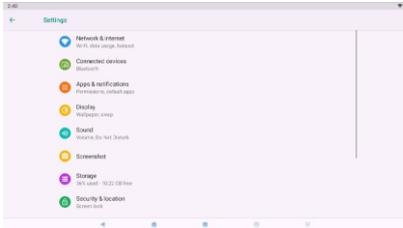
D. Screenshot settings

Click "settings" button under the main menu, select "System" and then select "Screenshot" in the display pictures, input password "ANDRSE" and then conduct corresponding operations.
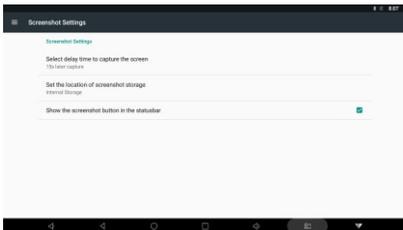
SYSTEM SETTING

E. Shortcut operation

Click " " icon under the main menu, to display four function selections.
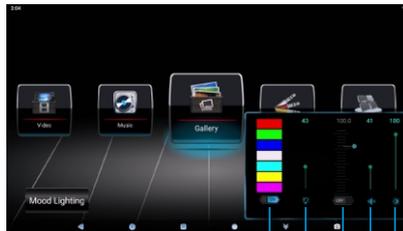

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1   2   3  4  5
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1. Ambient lighting selection
2. LED light adjust
3. FM
4. Volume adjust
5. Screen brightness

Note:(FM tips)   First, turn on the device's FM, tune to a channel without local programs, and then adjust the car's FM to the same channel.
Then the sound will be transmitted through the car stereo.

SYSTEM SETTING

F. Led light effect

Atmosphere lights:
Click "settings" button under the main menu, select "Led light effect", there are 7 different colors of atmosphere lights, click the corresponding color on the screen, the LED light on the back of the device will show the corresponding color, and click "CLOSE" to turn off .
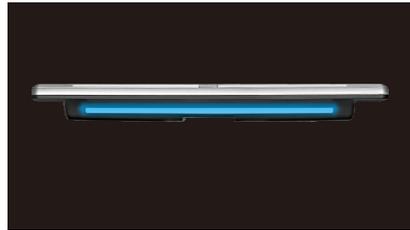
G. Change the theme

1. Click "Settings"
2. Find "Display" and click to enter.
3. Click "Factory settings", Enter password: ANDRSE and click "OK".
4. Click "Theme Setting".
Then you can choose the home screen you want.

Before	After
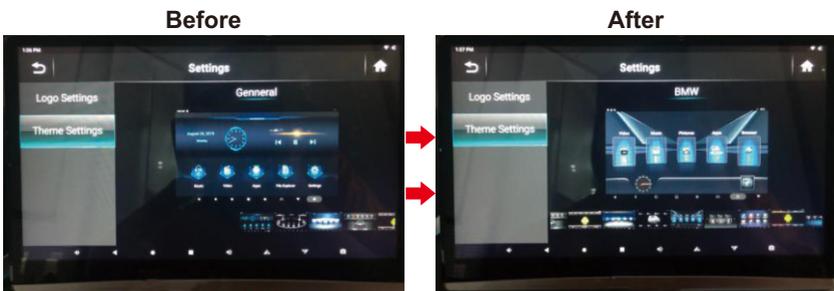
FUNCTION OPERATION

A. File explorer

Click the icon "File Browser" under the main menu, enter next level menu and then conduct document copy, paste, move and deletion and other corresponding operations.
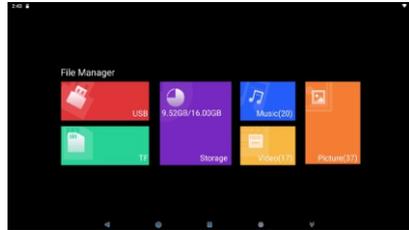
B. Mobile phone interconnection of Android system

1. Firstly, click "Settings" button under the main menu and open "Wi-Fi" function and then return upper level to click "MiraCast" icon, enter sub-menu to open "Enable Mcast" and then select the name of this mobile phone device.
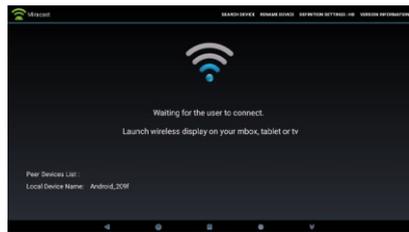
FUNCTION OPERATION

2. Select "Multi-screen interaction" in the Android
   system and find the corresponding machine
   device name needed to connect and then click
   to select.

3. After successful connection, picture operated on Mobile phone will
   synchronously display on the device.

4. Select "Multi-screen interaction" of mobile
   phone, and then select "Back to my device"
   and then you can exit mobile phone
   interconnection.

FUNCTION OPERATION

C. Apple iOS

1. Enter into "Wi-Fi" function option of the mobile phone firstly, turn on Wi-Fi hot spot of the mobile phone.

2. Choose "HappyCast" icon in menu.
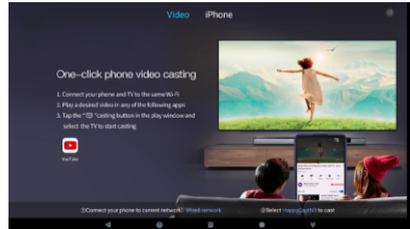
3. At the same time open "AirPlay" of iPhone
   (The "AirPaly" function option will appear when you slide the mobile phone main interface from below upward).

4. Choose corresponding AirPlay device name from the mobile phone, open mirror image. When successful connection, images operated on the mobile phone shall be synchronously displayed on device screen.

5. Exit from mobile interconnection when choosing "iPhone" on the mobile phone.

FUNCTION OPERATION

D. Connect to the network

Set Wi-Fi hot spot of mobile firstly, and then set the access code. Turn on the Wi-Fi function of android monitor, to find Wi-Fi hot spot name of corresponding mobile phone, click to access. (Input password if necessary)

1. Enter into mobile network share of the smart phone, launch 4G (or 3G) network, Re-enter into WLAN hot spot, open the interface of mobile phone device number to set hot spot name, password and save them at last.
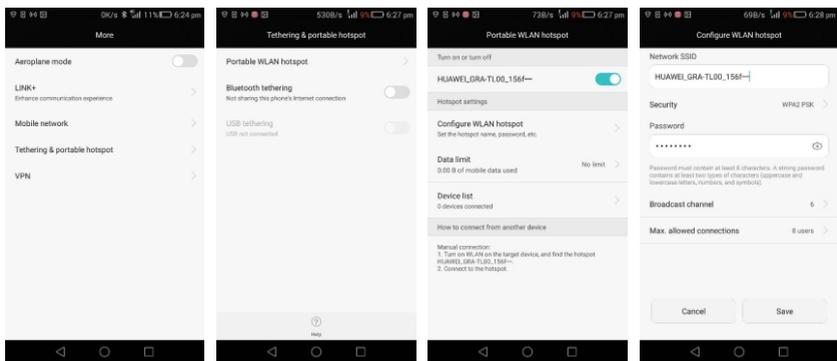
2. After well set the iPhone, to set local settings. Turn on Wi-Fi function of the android monitor. Find Wi-Fi hot spot device name of corresponding iPone, input password corresponding to iPhone, click to access.

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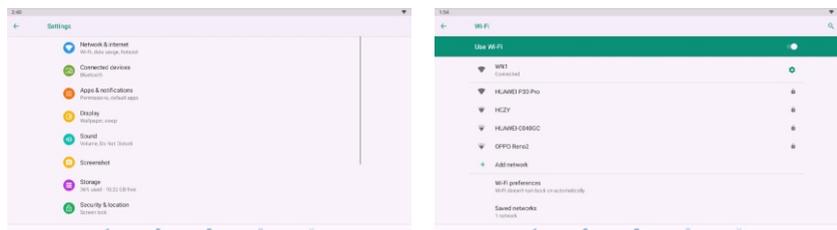
DEVICE CONNECTION

1. The host and slave are same displayed on the screen, and HDMI connection mode is required.

2. Click the icon " " under the main menu of the slave, then click this icon " " to realize the same display content of the host and slave.

Slave Machine   Master Machine

HDMI in

No Signal

HDMI out

Red ACC
Yellow +12V
Black GND
FUS Fuse box

(Yellow) Video in
(White) Audio L in
(White) Audio R in

(White) Audio L out
(Red) Audio R out