

## Model : HD4K A29

# Instructions for Network UDP/FTP/RS232 Protocol Control Player Use (Including Control Protocol)(4K Android)

## Product Port Configuration:

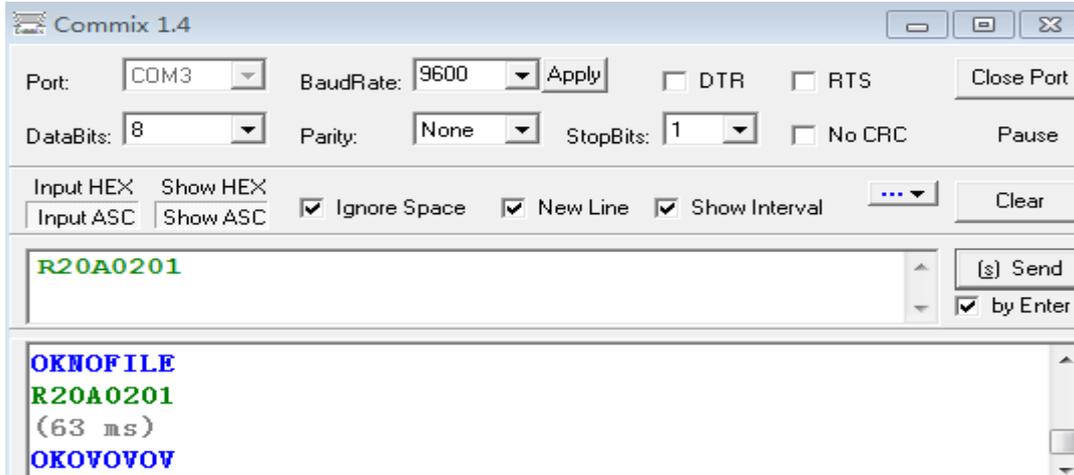
- 1: Auto Loop Play,
- 2: U Disk Updates Files Auto,
- 3: USB port supports U disk and mouse keyboard,
- 4: Player built-in 8G capacity,
- 5: RS232/TTL232/UDP /WIFI/RJ45Network Send control and play instructions,
- 6: Supporting 4K video files and HDMI 4K HD output,
- 7: Support 10, 20 buttons input trigger control play function,
- 8: Supporting FTP Upload and Update Player Files,
- 9: Support video formats: mp4, avi, mpg, vob, rmvb, ts, dat, wmv, jpg,jpeg,png,mp3  
video file must be named in Arabic numerals. for example :01.mp4 02.avi.....(Some irregular video files are not supported.Please test whether the player can play properly before using it.)

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# RS232 Serial Port Protocol

Serial interface communication protocol: Data Format: 8 data bit, 1 stop bit, no parity; baud rate: 9600bps



For example, instruction R20A0201 is to play 01 files in directory 02. R20 is Player address.

If the player does not create an address(Paddress.txt),No need for R20. Send A0201 directly,

Instruction Function	Player address	Send command code
Specify File Name Play	Rxx,(xx=01,02,03.....)	R01A0201 (02=directory, 01=01 file name)
Specify file loop playback	Rxx,(xx=01,02,03.....)	R01B0201
Specifies that the file is played once and returns to the 00 directory	Rxx,(xx=01,02,03.....)	R01K0201
Specify directory play	Rxx,(xx=01,02,03.....)	R01FPS02(02=directory name)
Specify directory loop play	Rxx,(xx=01,02,03.....)	R01FPR02(02=directory name)
Current only File Loop	Rxx,(xx=01,02,03.....)	R01 CTLP1
Current only directory Loop	Rxx,(xx=01,02,03.....)	R01 CTLP2
Cancel the loop(Except for directory 00)	Rxx,(xx=01,02,03.....)	R01 CTLP0
Pause/Play	Rxx,(xx=01,02,03.....)	R01 CTLPP

Stop instruction(Return to directory 00)	Rxx,(xx=01,02,03.....)	R01 STOPP
Next instruction	Rxx,(xx=01,02,03.....)	R01 CTLNX
Prev	Rxx,(xx=01,02,03.....)	R01 CTLPR
VOL+	Rxx,(xx=01,02,03.....)	R01 VOLC5
VOL-	Rxx,(xx=01,02,03.....)	R01 VOLC6
Mute	Rxx,(xx=01,02,03.....)	R01 CTLMU
Setting Picture Play Spacing Time	Rxx,(xx=01,02,03.....)	R01 TOSXX(XX=05,10...sec)
Volume Setting Instruction(max15)	Rxx,(xx=01,02,03.....)	R01 VOLnn(nn=05.08.10.15)
Pause instruction(Single play pause)	Rxx,(xx=01,02,03.....)	R01 CTLPS
Play instruction(Single play pause)	Rxx,(xx=01,02,03.....)	R01 CTLPY
FR fast rewind play Instruction	Rxx,(xx=01,02,03.....)	R01 CTLFR
FF Fast Forward Play Instruction	Rxx,(xx=01,02,03.....)	R01CTLFF
Standby Instruction	Rxx,(xx=01,02,03.....)	R01 STDBY
starting up Instruction	Rxx,(xx=01,02,03.....)	R01 PWRON
instruction the all players	RAL	RAL.....

- Specify the instruction format of an address player: Player address + command word; for example:R23A0103 is a player with command address 23, playing No. 03 file in 01 directory; Machines with the same address code receive feedback instructions, machines with different addresses, and discard instructions.
- **R232 Address = RAL**, which is the instruction of all players, is a special instruction; other instructions must be executed with the correct address code.
- For each instruction, the player with the same address code needs to respond.
- Play files in the device's internal adplayer/keyplay directory; directory 00-directory 99 contains 100 directories, each directory can have 00-99 files; must have 00 directories, 00 directories must have files; boot-up automatic circular playback of 00 directory files
- The name of the file is \*\*. XXX, the first two are numbers, and the second XXX is the file format suffix, such as: 23. avi, 34. jpg. 00.mpg, 12.MP3

-

- Address file name: Paddress. txt; Paddress. TXT content is a line of address:\*\*, \*\* is the address code of 01-99; if there is no Paddress. TXT configuration file, it runs according to instructions without address code (5 byte instructions).
- Address files are stored in the file adplayer directory, parallel to the keyplay directory.
- The core instructions of the serial player with address are the same as those of the standard serial player, except that there are more address codes.
- Players play local space program files. The internal local disk file structure (U disk updated file structure, the same) is as follows:

Adplayer	2018/9/22 15:43	文件夹	
addataclear	2014/5/9 12:40	文件	1 KB

---

Adplayer >

keyplay	2019/5/15 14:37	文件夹	
Address.txt	2018/9/22 16:21	文本文档	1 KB

---

Adplayer > keyplay

名称	修改日期	类型	大小
00	2018/9/22 15:43	文件夹	
01	2018/9/22 15:44	文件夹	

---

Adplayer > keyplay > 00

Address - 记事本

文件(F) 编辑(E) 格式(O) 查看(V) 帮助(H)

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address:12

# How to update the internal files of the player

- \* Prepare a clean U disk, format it, decompress and copy the compressed files of the file structure template provided on the computer to the U disk, spare.
- \* file structure description.
- \* Place the Adplayer / keyplay directory under the U disk root directory (no more directories and unused files under the Adplayer directory)
- \* Under the Adplayer/keyplay directory, there are directories named 00,01,02,03 to 99. There must be 00 directories, and other directories should be added or subtracted according to users'needs.
- \* Player will automatically play the files in the 00 directory, and there must be one or more files under the 00 directory. Otherwise, the player will report an error.
- \* Under each directory, you can put 00.XX-99.XX videos, MP3s, or picture files. XX is the suffix of video or picture files. The naming of files must follow this rule, not other file names.,  
File names such as: 00.avi, 01.mpg, 02.mp4, 03.jpg, 09.mp3
- \* Copy the special files addataclear and adplayer directories to the empty U disk; the content of the program can be replaced by the user, but the file name is in the required format.
- \* When the player is playing normally, inserting the U disk will automatically clear the files in the player, update the new contents of the U disk under the player's adplayer directory, copy it, remove the U disk (or wait a few minutes later, the player can also start playing by itself), power off, and start again immediately; the player will start again. Work

## Power-on working procedure

- \* Power on, system start up.
- \* After a few seconds of displaying the desktop, the machine will automatically start the main program of "Advertising Play", display the software version, and then automatically play the files under keypaly/00 directory.
- \*Start accepting UART serial port playback control instructions

# Notes in Playing MP3 Files

\*If you put it in a (bg.jpg) file under the adplayer directory, it will automatically display the picture when playing the MP3 file.

\*If no (bg.jpg) file exists, you can play MP3 file before the next instruction to play pictures, let the machine display pictures, and then play mp3, then this picture has been displayed until the next file is not mp3 play.

\* If there is no (bg.jpg) file, after playing the video, then downplay the MP3 instruction, the picture may be black screen or other video residual picture, but it does not affect the playback of mp3.



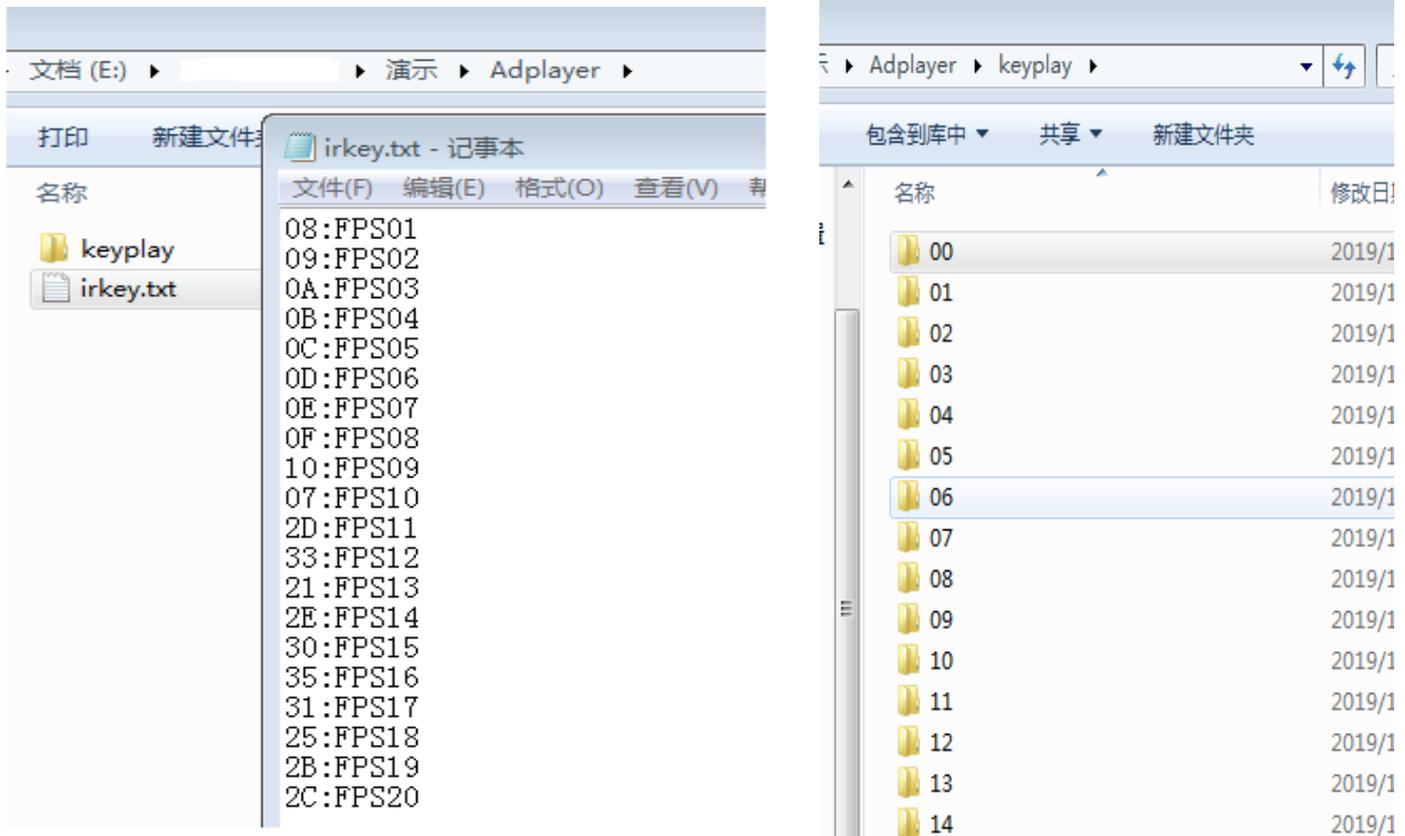
名称	修改日期	类型	大小
keyplay	2018/9/22 15:45	文件夹	
bg.jpg	2019/3/31 16:38	JPG 文件	697 KB

## Enable button Key port

In the (adplayer) directory, found a (keyplay directory) and (irkey. txt) key configuration document.

(irkey. txt) Store the corresponding code of the button in the document.

Store corresponding video files in (keyplay directory).



The left screenshot shows the 'irkey.txt' file in the 'Adplayer' directory. The contents of the file are as follows:

```
08:FPS01
09:FPS02
0A:FPS03
0B:FPS04
0C:FPS05
0D:FPS06
0E:FPS07
0F:FPS08
10:FPS09
07:FPS10
2D:FPS11
33:FPS12
21:FPS13
2E:FPS14
30:FPS15
35:FPS16
31:FPS17
25:FPS18
2B:FPS19
2C:FPS20
```

The right screenshot shows the 'keyplay' directory, which contains a series of folders numbered 00 to 14, all created on 2019/1.

```
irkey.txt - 记事本
文件(E) 编辑(E) 格式(O) 查看(V) 帮助(H)
08:FPS01
09:FPS00
0A:FPS03
0B:FPS04
0C:FPS05
0D:FPS06
0E:FPS07
0F:FPS08
10:FPS09
07:FPS10
```

 The five codes are to instruct the corresponding file to play. Key function is the same as RS232 code function.

*The two codes are button internal codes cannot be modified.*

```
08=1key
09=2key
0A=3key
0B=4key
.....
```

```
irkey.txt - 记事本
文件(E) 编辑(E) 格式(O) 查看(V) 帮助(H)
08:K0101
09:K0102
0A:K0103
0B:K0104
0C:K0105
0D:K0106
0E:K0107
0F:K0108
10:K0109
07:K0110
```

10 key irkey.txt (demo)

文件(F) 编辑(E) 格式(O) 查看(V) 帮助(H)

08:FPS01  
09:FPS02  
0A:FPS03  
0B:FPS04  
0C:FPS05  
0D:FPS06  
0E:FPS07  
0F:FPS08  
10:FPS09  
07:FPS10  
2D:FPS11  
33:FPS12  
21:FPS13  
2E:FPS14  
30:FPS15  
35:FPS16  
31:FPS17  
25:FPS18  
2B:FPS19  
2C:FPS20

20 key irkey.txt (demo)

文件(F) 编辑(E) 格式(O) 查看(V) 帮助(H)

08:FPS01  
09:FPS02  
0A:FPS03  
0B:FPS04  
0C:FPS05  
0D:FPS06  
0E:FPS07  
0F:FPS08  
10:FPS09  
07:FPS10  
2D:FPS11  
33:FPS12  
21:FPS13  
2E:FPS14  
30:FPS15  
35:FPS16  
31:FPS17  
25:FPS18  
2B:FPS19  
2C:FPS20  
1D:FPS21  
2F:FPS22  
20:FPS23  
22:FPS24  
23:FPS25  
24:FPS26  
26:FPS27  
27:FPS28  
28:FPS29  
4A:FPS30

30 key irkey.txt (demo)

Users can activate the USB keyboard (or USB wireless keyboard), the number keys on the keyboard 1, 2, 3, 4, 5, 6, 7, 8, 9, 0, is also the basic 10 keys corresponding to irkey. txt;

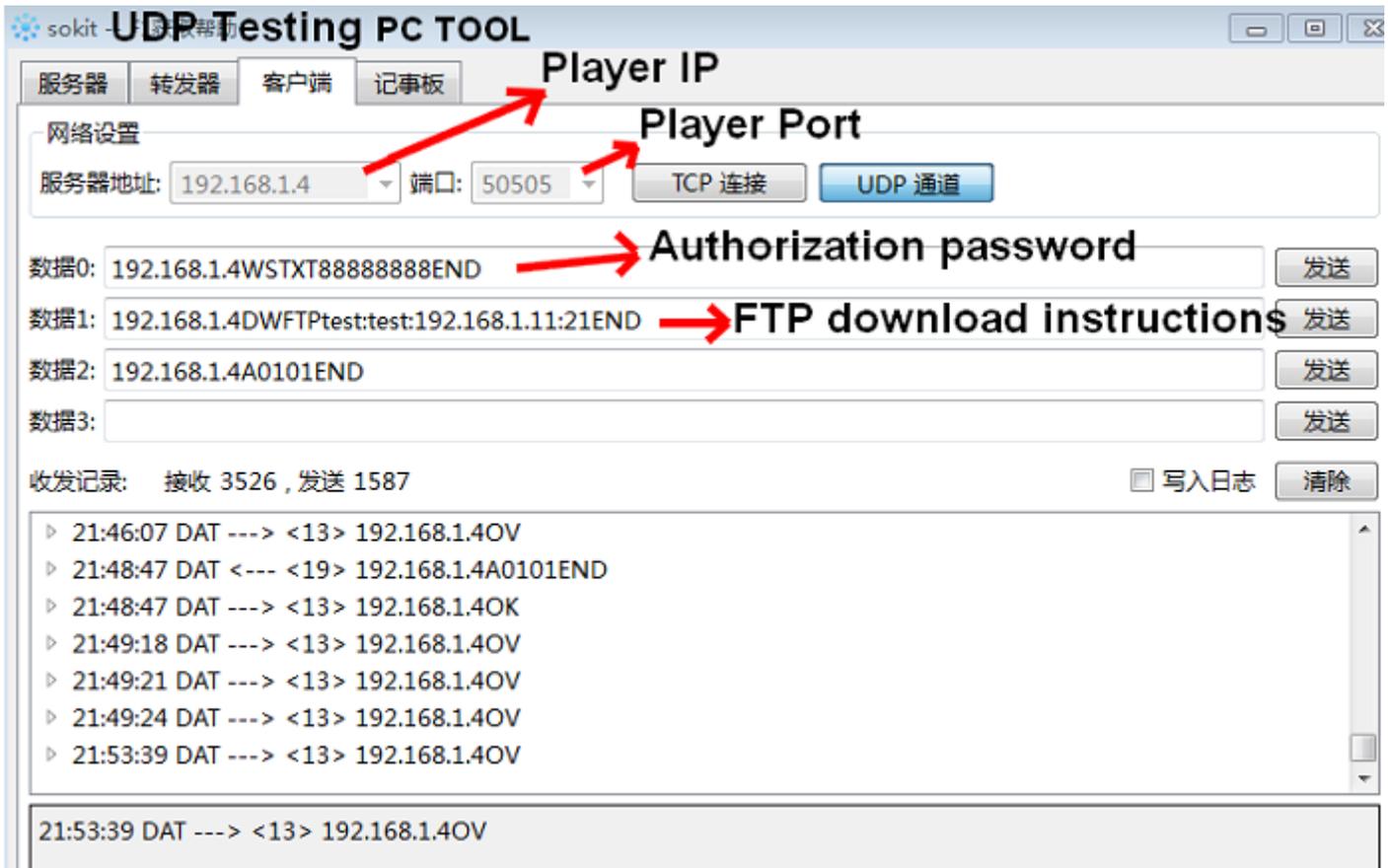
# UDP Protocol Control Player Instruction

\*UDP communication port: 50505, such as instruction {192.168.1.200A0201END }, is a player with IP 192.168.1.200, playing 01 file in 02 directory.

\* UDP instruction code is the same as RS232 code. (Unique IP Address Replaces Player RS232 Address)

Instruction Function	Player IP address	Send command code	End code
Specify File Name Play	192.168.1.200	Axx** (xx= directory name **= file name)	END
Specify file loop playback	192.168.1.200	Bxx** (xx= directory name **= file name)	END
Specifies that the file is played once and returns to the 00 directory	.....	Kxx** (xx= directory name **= file name)	END
Specify directory play	.....	FPSxx (xx= directory name)	END
Specify directory loop play	.....	FPRxx (xx= directory name)	END
Current only File Loop	.....	CTLP1	END
Current only directory Loop	.....	CTLP2	END
Cancel the loop(Except for directory 00)	.....	CTLP0	END
Pause/Play	.....	CTLPP	END
Stop instruction(Return to directory 00)	.....	STOPP	END
Next instruction	.....	CTLNX	END
Prev	.....	CTLPR	END
VOL+	.....	VOLC5	END
VOL-	.....	VOLC6	END
Mute	.....	CTLMU	END
Setting Picture Play Spacing Time	.....	TOSxx(xx=05,10...sec)	END
Volume Setting Instruction(max15)	.....	VOLxx(xx=05.08.10.15)	END
Pause instruction(Single play pause)	.....	CTLPS	END
Play instruction(Single play pause)	.....	CTLPY	END
FR fast rewind play Instruction	.....	CTLFR	END
FF Fast Forward Play Instruction	.....	CTLFF	END
Standby Instruction	.....	STDBY	END
starting up Instruction	.....	PWRON	END

FTP network settings	Player address IP	Send command code	End code	Feedback info
1.Send authorization password	xxx.xxx.xxx.xxx	<b>WSTXT*****</b> (88888888=Player password)  192.168.1.200WSTXT88888888END  Passwords can also be viewed inside the player (ftppsw.txt)	END	PASS
2.Modify and Set new password	xxx.xxx.xxx.xxx	<b>NSTXT*****</b> (*****=New Digital Password) Before modify new password, Need to complete the first step -password authorization.	END	PASS
3. Start download	xxx.xxx.xxx.xxx	<b>DWFTP</b> user: Password: Server IP: Port DWFTP*****:XXXXXXX:192.168.1.222:21	END	PASS
	for example: 192.168.1.200	DWFTPtest:test:192.168.1.222:21END  Before downloading, Need to complete the first step -password authorization.		
4. Force stop download instructions	xxx.xxx.xxx.xxx	<b>QKLLF</b>	END	OK
5. Restart command	xxx.xxx.xxx.xxx	<b>MRWET</b>	END	OK
6.Query Verification	xxx.xxx.xxx.xxx	<b>ECHKF</b> (View the file name, file size, serial address inside the machine, and print out irkey)	END	OK



### FTP Server Startup PC Tool



Please do not change the subdirectory name (adplayer/keyplay)  
 Simultaneously, the name of the subdirectory is the same as that of the player.  
**Shared root directories and subdirectories for servers and players need to be created by themselves.**

The USB port of the player can connect the mouse.

### USB Mouse = Remote control,

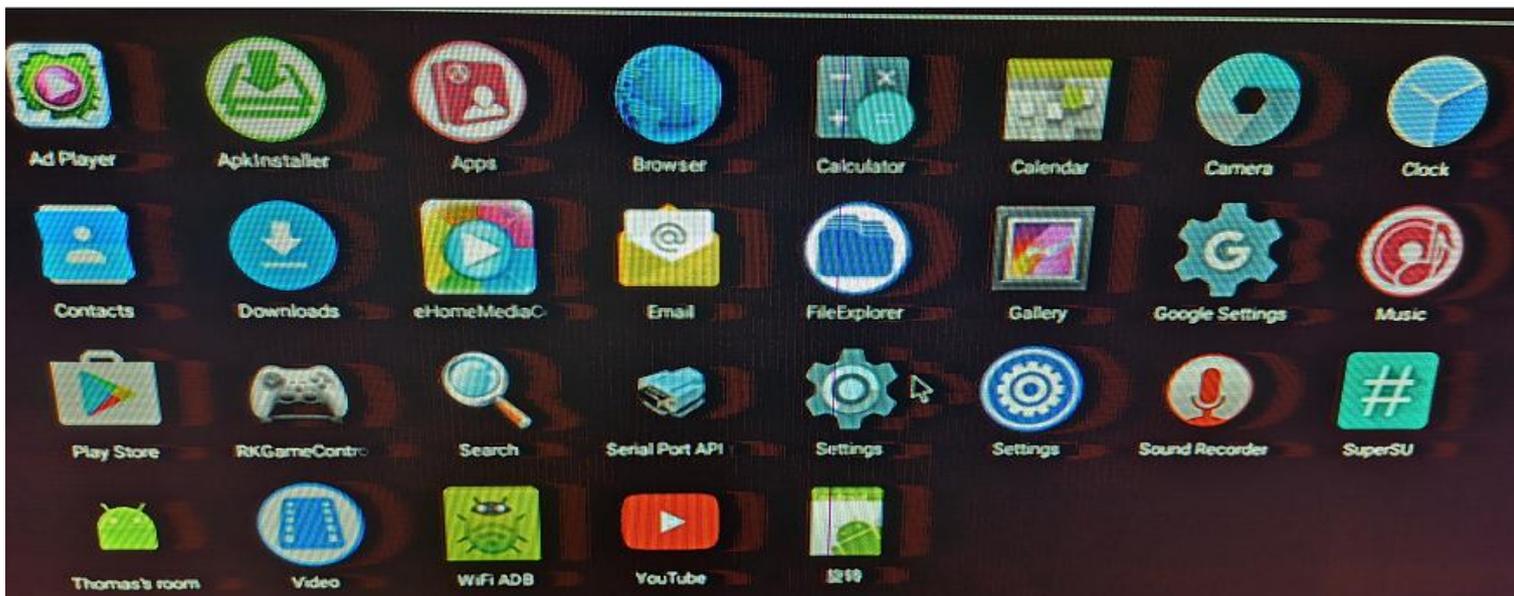
Click the right mouse button, the player appears menu icon settings screen.

Player WIFI Address View

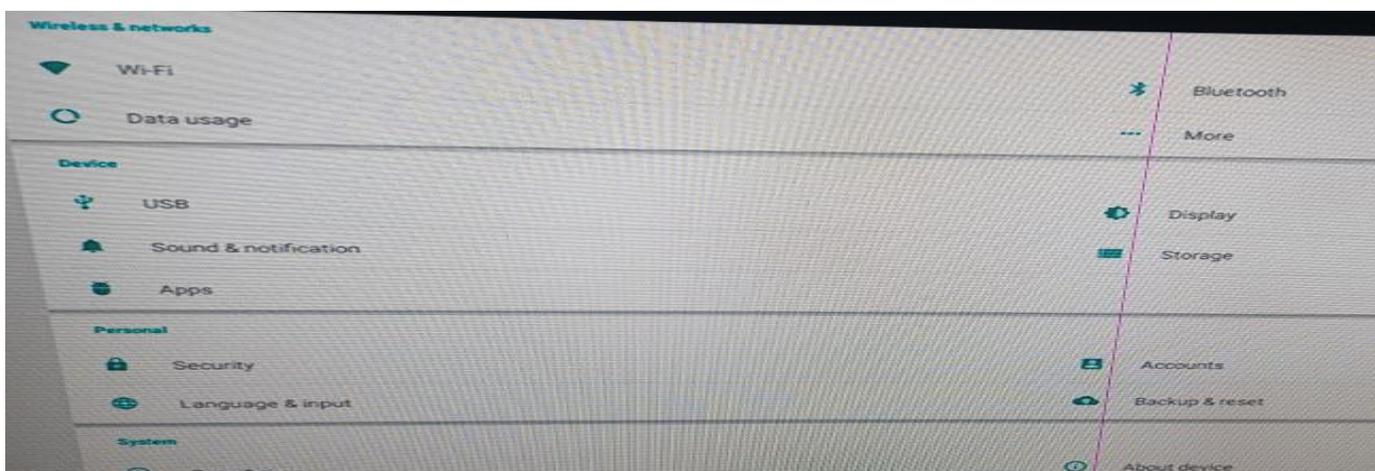
After right-clicking the mouse, select the menu icon settings.

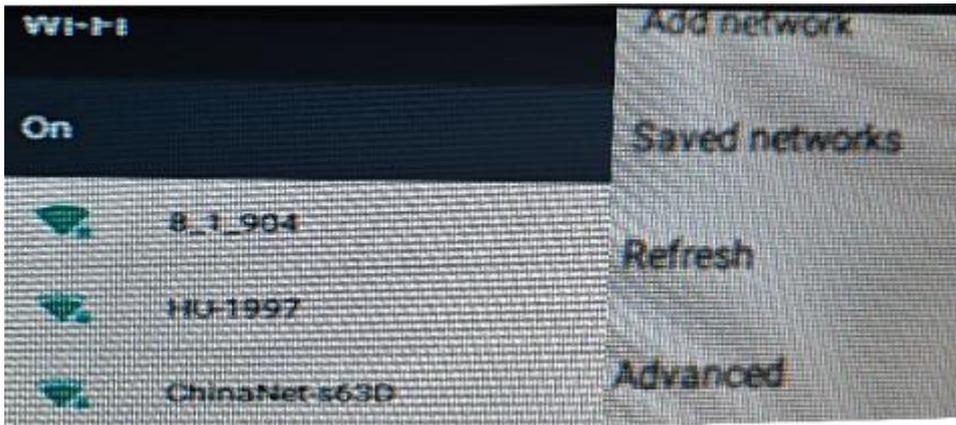
Select the icon in the upper right corner of the WIFI list.

Select advanced options to view the WIFI address

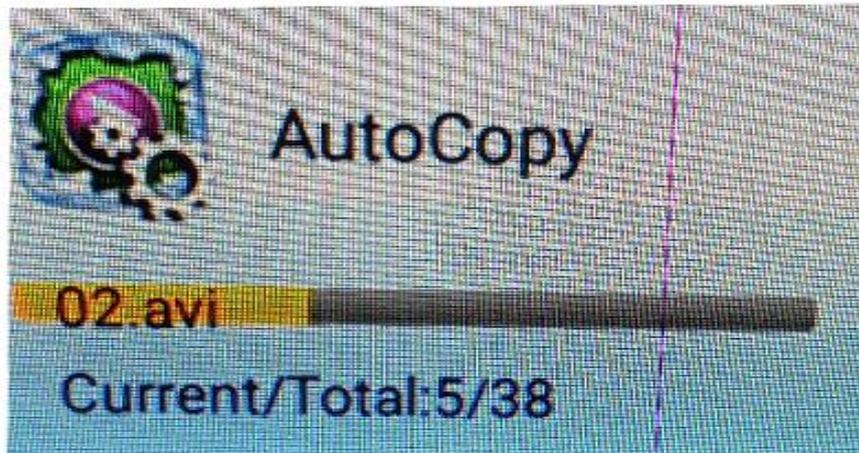


Player menu icon





WIFI IP



When the U disk is inserted into the USB port of the player, The player will copy the files automatically.

Also overwrite (replace) old player files

The internal capacity of the player is 8G

To use the new U disk copy, format it first and then create the file

### Sending byte code through UDP test tool

for example: FTP Network Download Instruction

192.168.1.200DWFTPtest:test:192.168.1.222:21END

