



User Manual



H-STB-IP

Compact IP Decoder Set Top Box

Introduction

Thank you for choosing DEXIN's android set-top box and congratulate you that you will enjoy the audiovisual entertainment with the multimedia android set-top box.

Please read this manual carefully before you install, use and maintain the set-top box. Keep this manual for future reference.

Statement

This product supports to connect internet, which allows users to download online resources. DEXIN shall have no liability for the validity, legality and stability of the downloaded content. No reactionary, pornographic or violent content is encouraged.

There may be some application programs not compatible with this set-top box as android system is an open platform which is applied to a large number of applications. This shall not be recognized as set-top box's quality fault.

DEXIN makes no guarantee that no any error or neglect in this user manual, though it has been carefully collated and verified. And, the performance of this product is improving fast and frequently. We are sorry for no further notice will be offered if the actual product differs from the descriptions in the user manual. Please visit DEXIN's web site for details.

Images shown in this user manual are indicative only. If there is inconsistency between the images and the actual product, the actual product shall govern

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1 Specifications












Hardware	CPU	RK3229, 28nm Quad core Cortex A7, High cost performance 4K OTT Box solution
	GPU	ARM Mali-400 GPU
	HDMI	Including an HDMI 2.0 for HDMI 2.0 for 4K YUV420@60Hz with HDCP 1.4/2.2
		Support 4K 10-bit H.265/H.264/VP9 video playback and display
	Memory	1GB DDRIII
	Flash	8GB Nand Flash
	Wi-Fi	2.4G, 802.11 b/g/n,
	Wired network	Ethernet GMAC 10/100/100M Ethernet controller
		Support 10/100/1000 data transfer rate and RGMII interface
		Support 10/100Mbps data transfer rate and RGMII interface
IR	Infra Remote control	
Power Supply	DC input 5V/2A	
Software	OS	Android 7.1
	3D	Hardware 3D graphics acceleration
	Video decoding	4K VP9 Video decoder, 4K 10-bits H.265/H.264 video decoder
		1080P other video decoders (VC-1, MPEG-1/2/4, VP6/8)
		Support conversion from BT.2020 to Rec.709/Rec.601
		Video post processor: de-interlace
		H.263/H.264 2160P@ 24fps VC-1 ,MPEG - 1 1080p @ 60fps MPEG- 2 2160P @ 24fps MPEG-4 1080P @ 60fps AVS 1080p @ 60fps MVC 2160P @ 24fps WMV,3GP,MKV,ASF,3G2M4V,MJPEG,RV8,RV9,RV10 1080P@60fps
		Support HEVC decoder
		Support Main/Main10 HEVC/H.265 decoder, 4K @ 60FPS
		Support 4096x2304 resolution
		Support HDMI 720P-2160P FUII 3D HD(2160P, 3840 * 2160), 4K+2 K

Software		Support flash1.1
	Video Decoder format	H.264,H.265,VP8,MVC(1080P)
	Video format	Supports DIVD/DIVX/REAL8 / 9 / 10, RV, RM, RMVB, PMP, FLV, MP4, M4V, VOB, VP6, VP8 2160P @ 24fps
	Audio format	Supports MP1, MP2, MP3, WMA, OGG, AAC, M4A , FLAC, APE, AMR, RA, WAV, etc
	Picture format	Supports JPG, JPEG, BMP, GIF, PNG, JFIF etc Resolution 8192x8192
	HDD file system	FAT16 / FAT32 / NTFS
	Support Subtitle	SRT, SMI, SUB, SSA, IDX+USB
	XBMC/KODI	Support
	DRM	Widewine Level1, DRM PlayReady ,Verimatrix, built in Trustzone, HDCP 2.2/1.4
	Support language	Chinese, English, Germany, Japanese, Korea etc. multilateral languages
Stream In/Out	1*HDMI 2.0	Built-in HDMI 2.0 transmitter including both controller and PHY with CEC and HDCP, 4K @ 60FPS max resolution output
	1* SD Card	to 64GB
	4*USB HOST	2High speed USB 2.0,support USB DISK and USB HDD
	1*SPDIF	SPDIF output
	1*RJ45	Ethernet:10/100M, standard RJ-45
	1*Power input	5V/2A
	Accessories	Gift box Power charger adapter HDMI cable (optional) IR remote control (optional) User's Manual
Applications	Online	Browse all video websites, support Netflix, Hulu, Flixster, youtube etc
	Apps	Apps download freely form android market, amazon appstore etc
	Medium	Local Media playback, support HDD, U disk ,SD card
	Talk online	Support SKYPE video call, MSN, facebook, twitter, QQ etc
	Others	Support Wi-Fi Hotspot, could be as a wireless router Support DLNA, Google TV Remote, LAN, 3D Movie, Email, office suit etc
Packing	Dimension	118*118*25 mm
	Approx weight	400g





2 Remote Control

Picture below is a learning IR remote control which can simultaneously control TV set and STB.



-  **Power:** to turn on/off the STB
-  **SETUP:** One key go to STB's system "Setting"
-  **APP:** all the application in this STB
-  **Volume:** volume control
-  **Home:** one key go to home page
-  **Return:** step back/exit key
-  **Menu:** STB Menu
-  **Mouse:** one key to shift the remote control to a mouse
-  **OK:** Confirm and enter key
-  **Mute:** TV mute key
-  **▲/▼/▶/◀:** Up/down/right/left key
- Number Keys:** To input numbers

TV Control Area Intro: (It takes effect after learning the key in TV remote control)

-  **Power:** to turn on/off the TV set/learning key
-  **SET:** learning key
-  **TV IN:** shift to live programs
-  **Volume:** to control the volume of TV

Operation Guide on Learning Function

1. Long press 'Power/SET' key in TV Control Area until the LED indicator becomes steady on. It is then in the learning status to copy the function from other remote control.
2. Press the key ready to learn in the TV control area. If the red indicator blinks, it indicates that this key is ready to learn.
3. Hold the target remote control to be learned against this remote control at 3-5mm distance, and press the key to be learned on the target remote control.
4. If the learning succeeds, the LED indicator will blink 3 times and then keep on. Users can then set the other keys with the same steps. If the learning fails, the LED indicator will blink 5 times and return to learning status. Please repeat steps 2-3 to retry.
5. After finishing the learning process, press any key out of the TV Control Area to exit the learning status, and the LED indicator turns off at the same time.

3 Basic Operations

3.1 Power on/off and Sleep

1. Connect the box to the TV with HDMI cable, connect box to the power adaptor, connect mouse, air mouse or other input devices with USB port.
2. After the device and cable connected, power LED turn to blue
3. After the device and cable disconnected, Power LED turns off
4. Under power on mode, press remote control's power button, device is entering into sleep mode.
5. Under sleep mode, device will be wake when you press remote control's power button.

3.2 Open applications

Use remote control's arrow keys to choose the wanted program, click OK button to open the selected program.

3.3 Switch in the applications

Click "My APPs" to view recently used programs, click program icon to switch application arbitrarily.


3.4 Back to Home Screen

Click icon  on remote control to return to home screen

4 System Introduction

4.1 Main Interface Intro

Figure-1 is the main interface displayed when the STB is powered on. It contains Online Video, Recommend, My Apps, Local, Music and Setting all together 6 shortcut menus.

Users can also add shortcut menu as need through clicking button  on the interface.

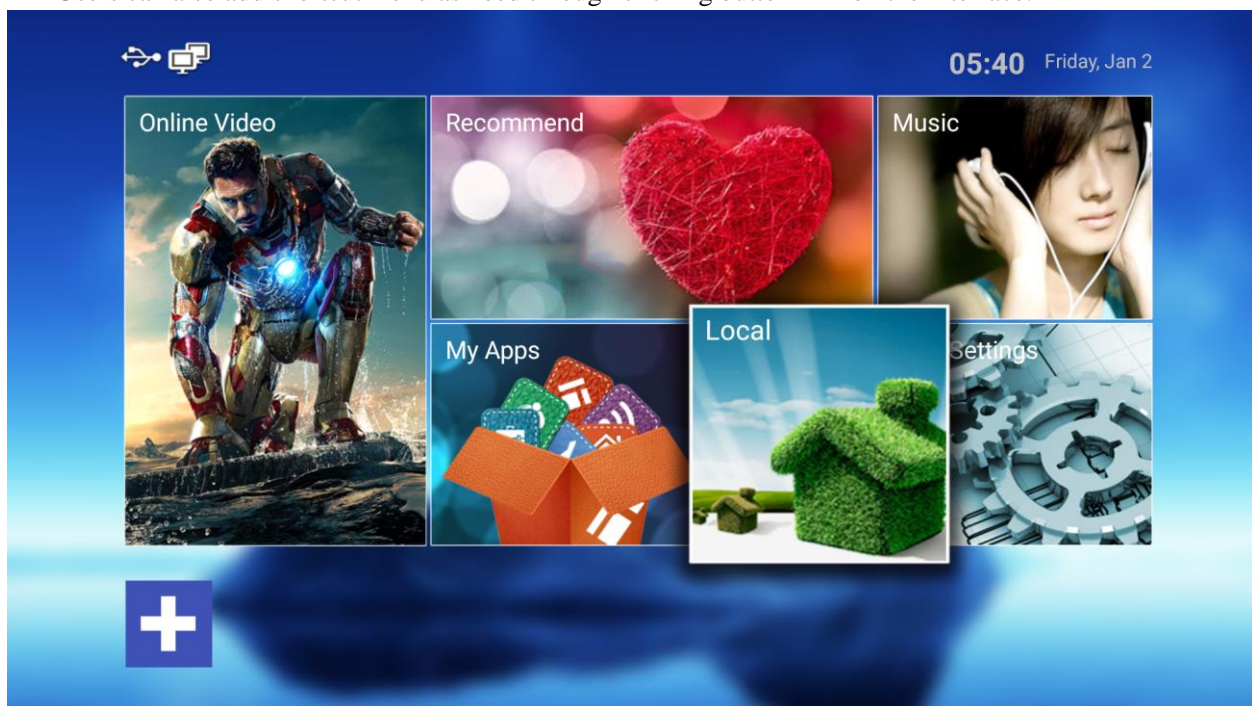


Figure-1

4.2 My Apps

Figure-2 shows the Apps list installed in STB. The built-in apps include Apk installer, Apps, Browser, Calculator, Downloads, File Explorer, IPTV2 and etc. With android system’s wide applicability, user can install more apps downloaded online.

We mainly introduce 3 APKs here: Apk Installer, File Explorer and Settings



Figure-2

◆ 4.2.1 Apk installer

Clicking “Apk installer”, it displays the following interface as Figure-3 where users can install/manage App and check Apps’ information.

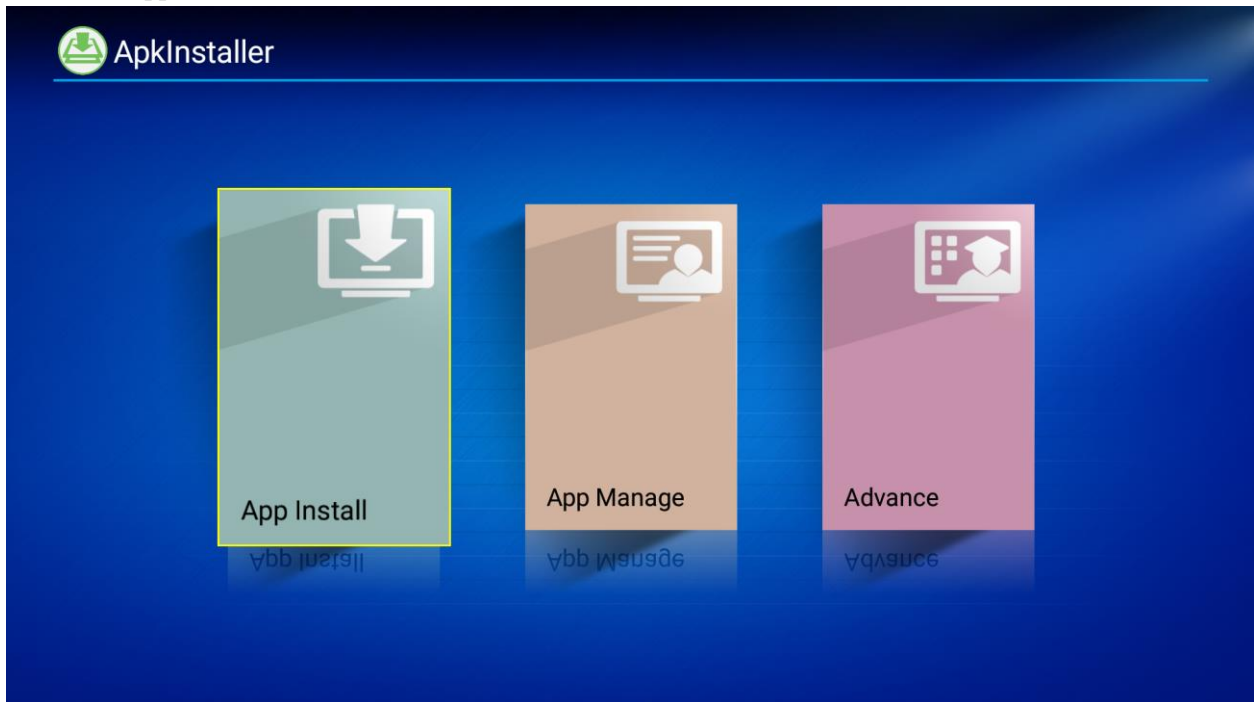


Figure-3

App Install: Install APPs in Internal Memory/SD Card/USB Disk.

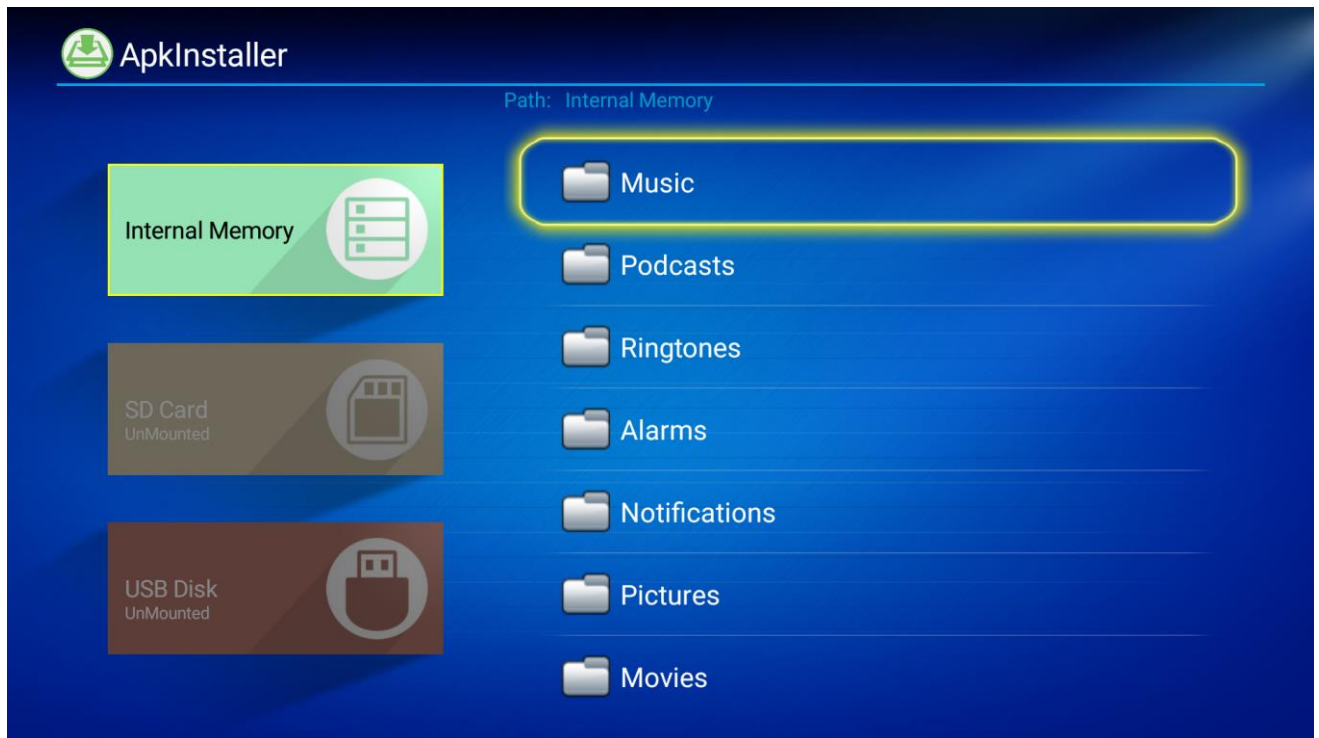


Figure-4

App Manage: Launch/Export/Uninstall Apps and check the version of APPs.



Figure-5

Advance: users can check Apps' size, open or unload the APPs.

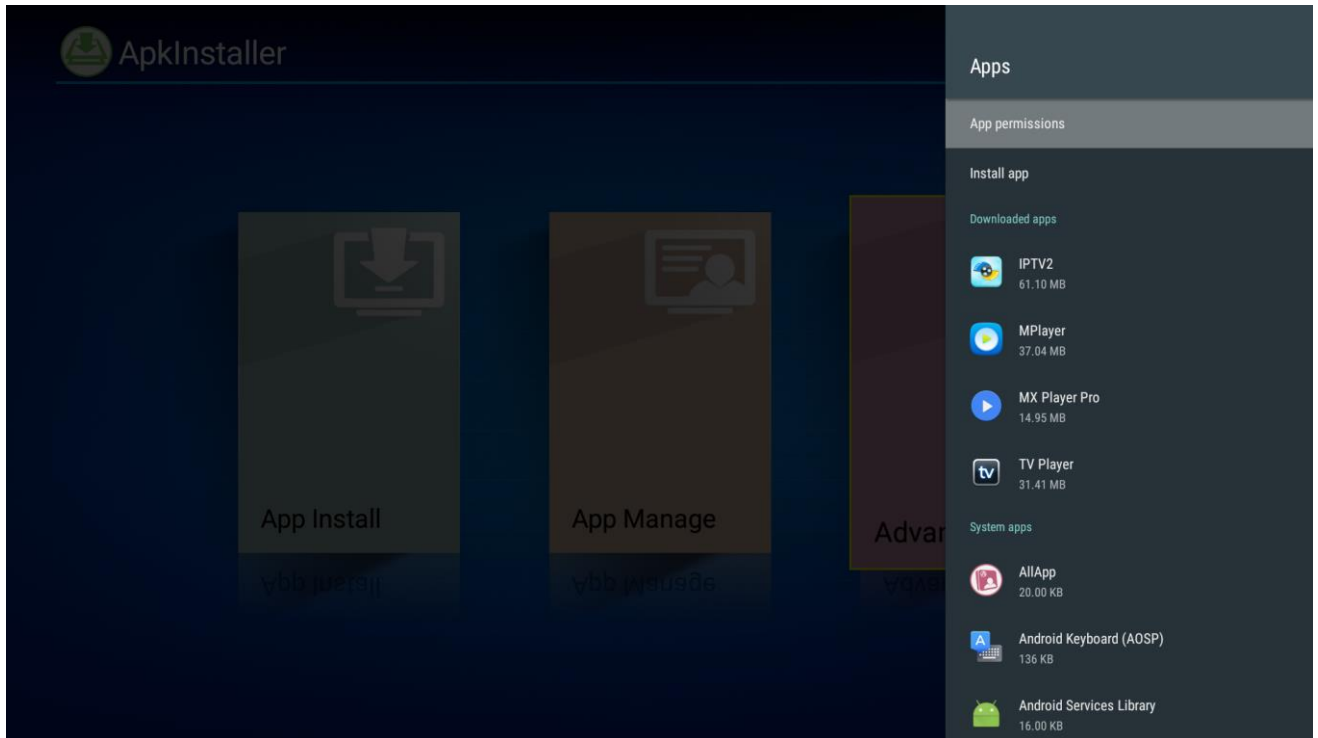


Figure-6

◆ **4.2.2 File Explorer**

Clicking “ File Explorer”, it displays the following interface as Figure-7 where users can read Internal Flash/USB/Net Hood information.

Read U Disk: insert U flash disk or removable hard disk into USB port in the status of power on, icon

🔌 appears in top left corner of the home screen.

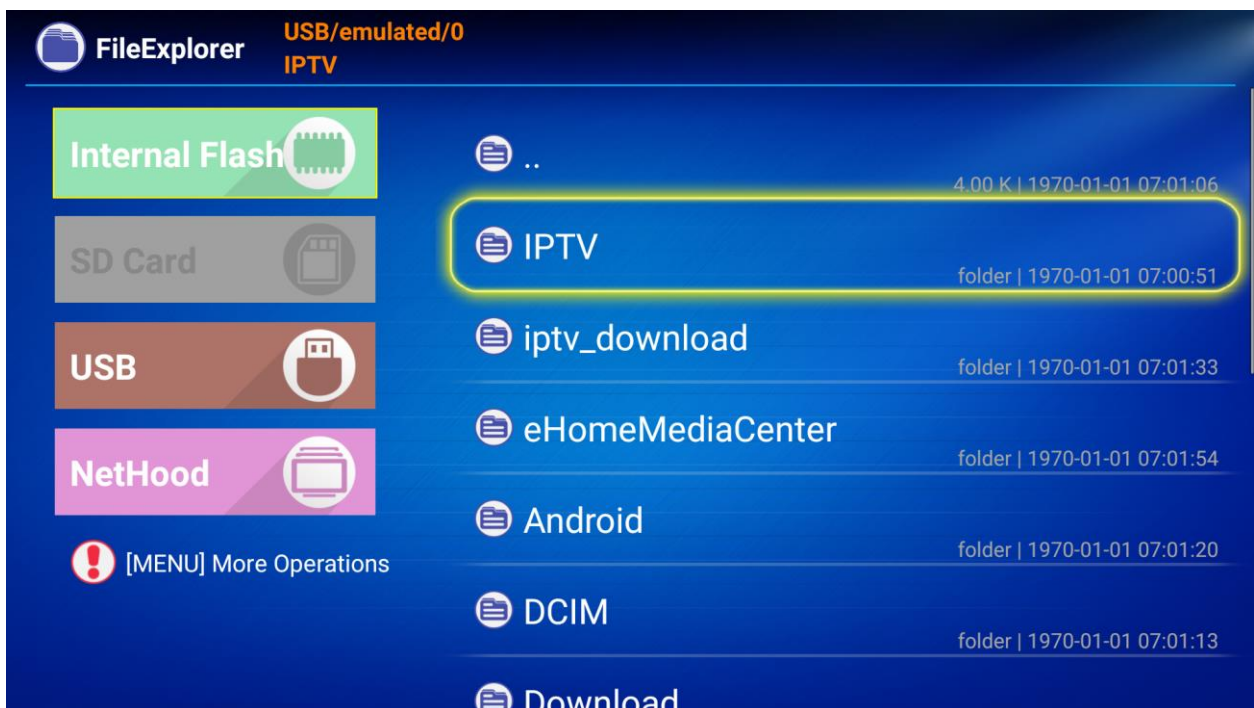


Figure-7

◆ **4.2.3 Settings**

Home Screen→My APPs→Settings or Home Screen→Settings to set network/sound/Display/Apps and other parameters.

Click “Settings” in Figure-8, users can set normal functions’ parameters here and click “More Settings”, it displays the screen as Figure -9 to set other functions’ parameters

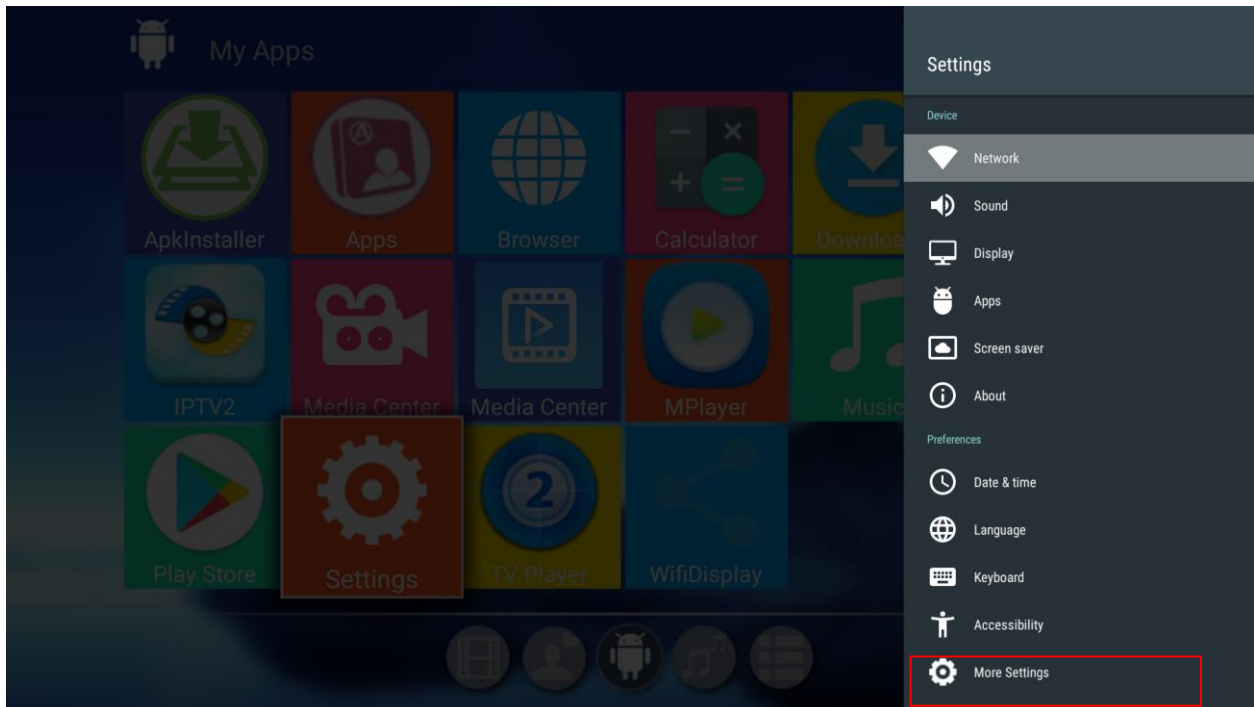


Figure-8

4.2.3.1 Wireless & networks

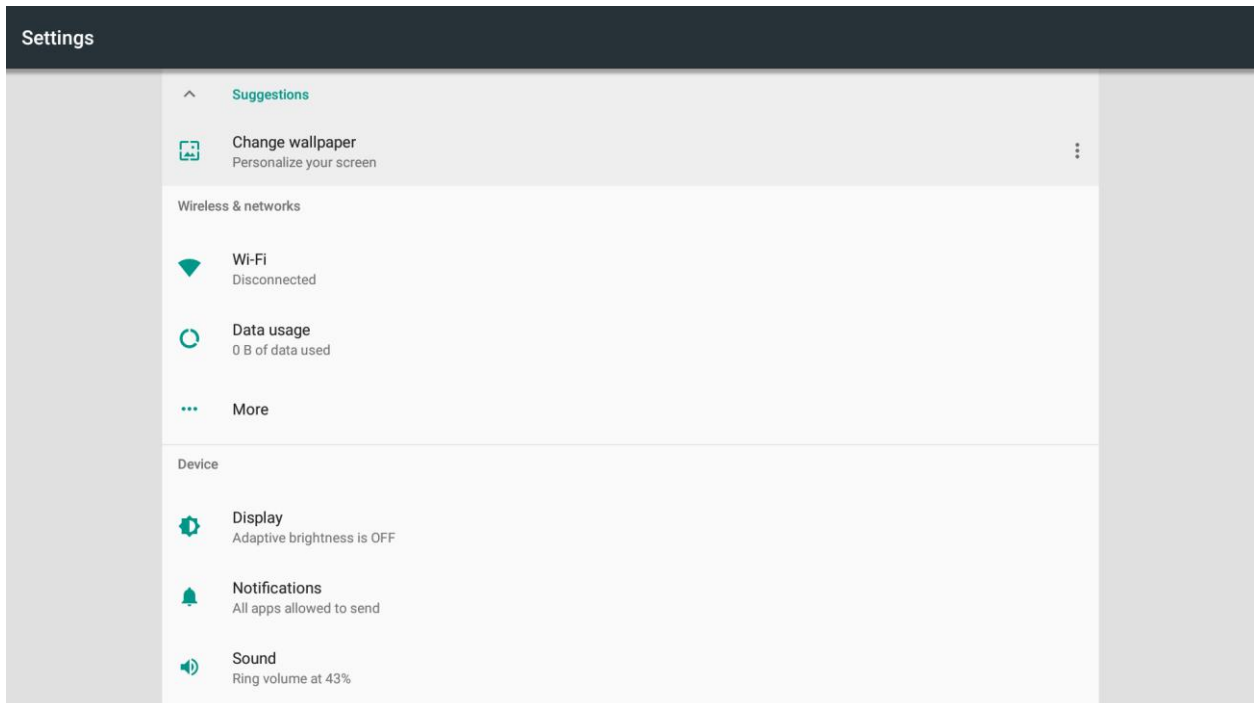


Figure-9

➤ **WI-FI Function**

Settings→Wi-Fi

Enter interface shown as in Figure-10 below and turn on Wi-Fi, and then the system will automatically search Wi-Fi signal around available.

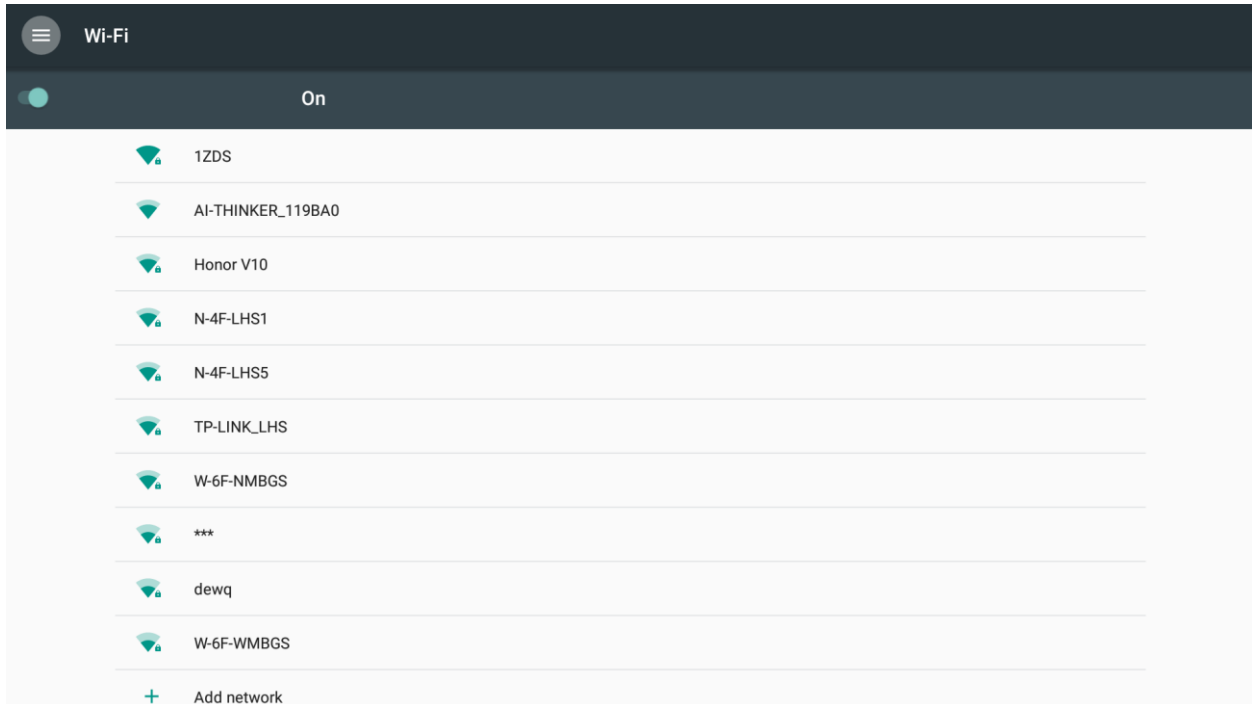


Figure-10

Select a network access point searched out and input password, and then it shows the wireless connection result. (Figure-11)

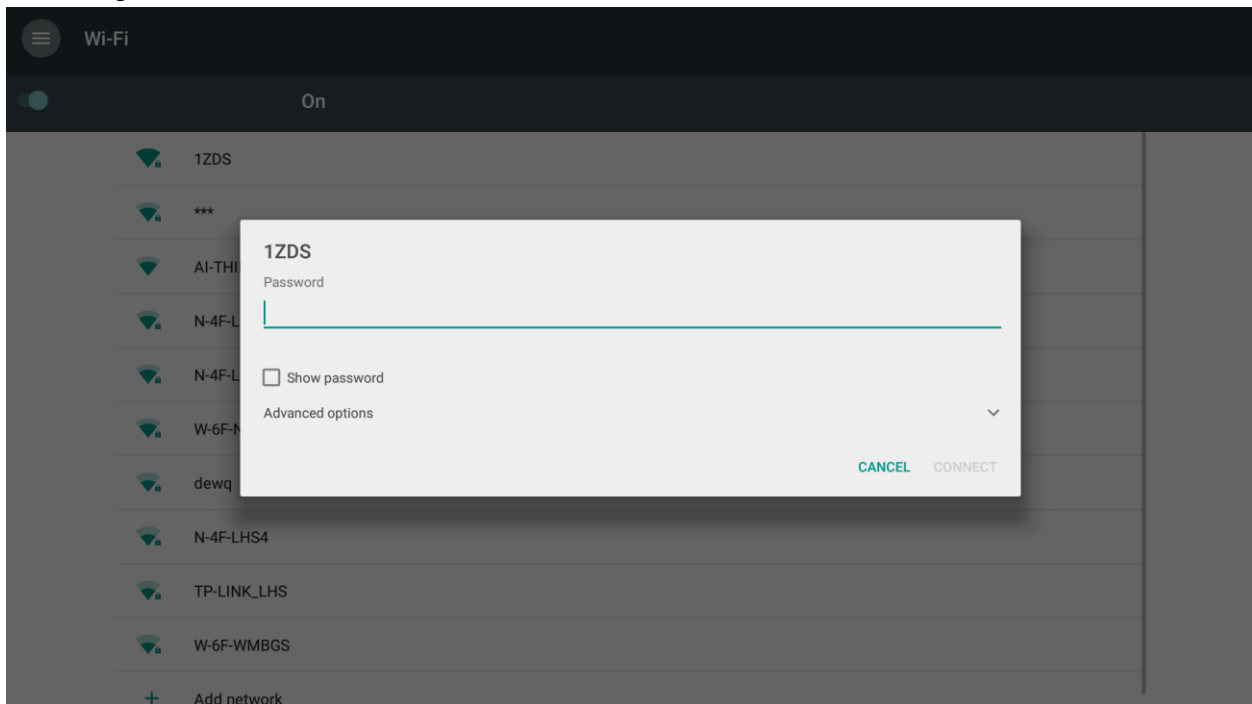


Figure-11

➤ **Ethernet Function**

Setting→More→select “Ethernet” to open Ethernet function. Insert network cable, network will be connected automatically. (Figure-12)

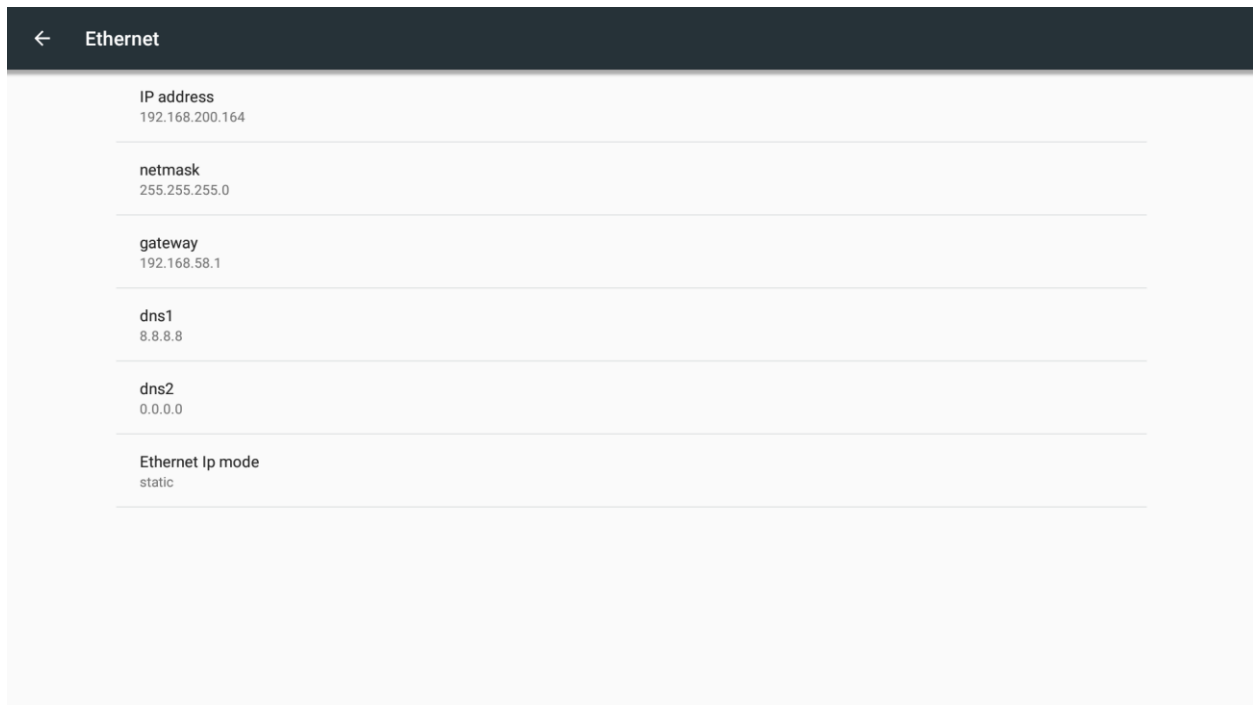


Figure-12

➤ **WLAN Hotspot**

Settings → More → Tethering & Portable hotspot → select “Portable Wi-Fi hotspot” to active hotspot. (Figure-13)

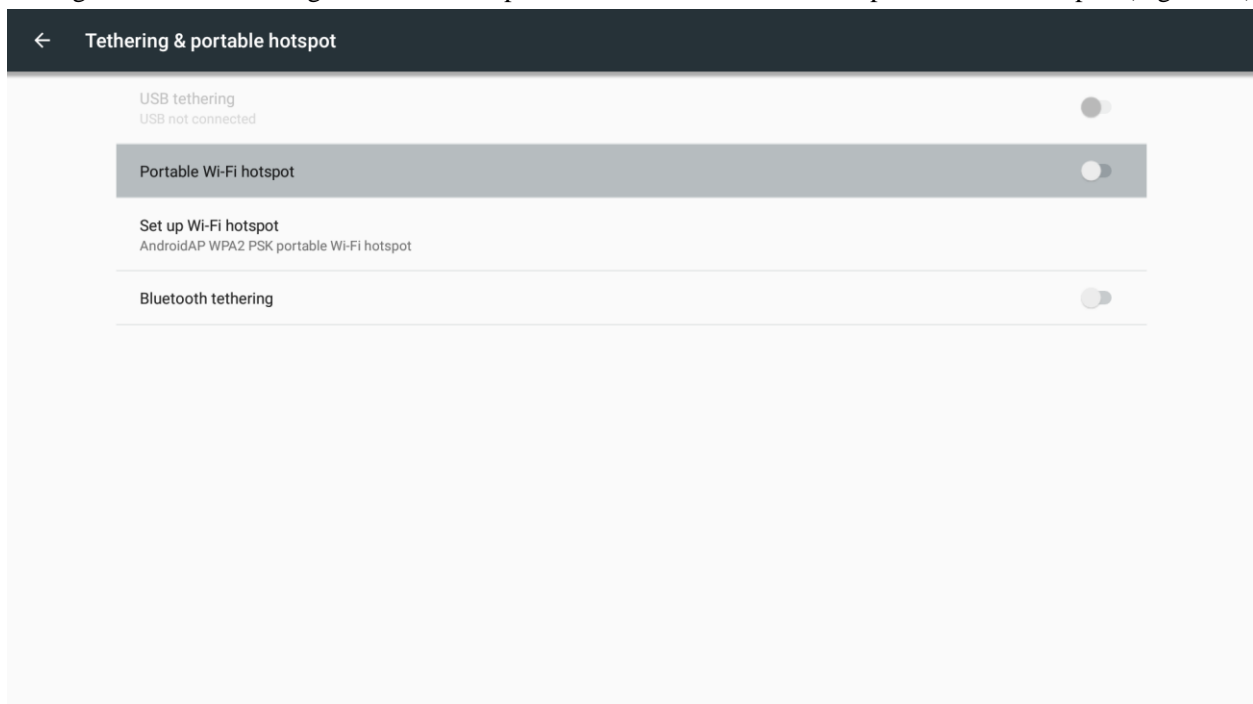


Figure-13

Clicking “set up Wi-Fi hotspot” to set the hotspot’s name, security, and password and other parameters. Ensure connected to the wired network, the box can be used as wireless AP to support more wireless devices access in the family. (Figure-14)

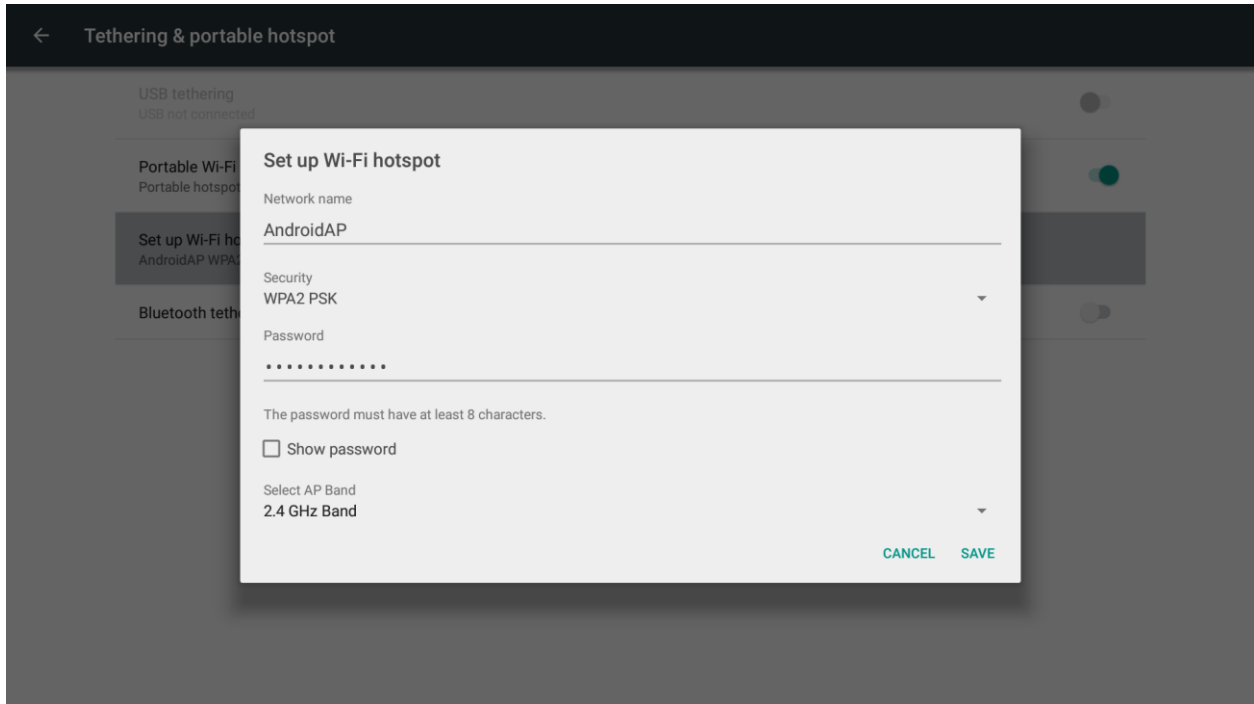


Figure-14

4.2.3.2 Device

Users can set “Display/Notification/Sound/Apps/Storage/Memory/Users” parameters in this part. (Figure-15)

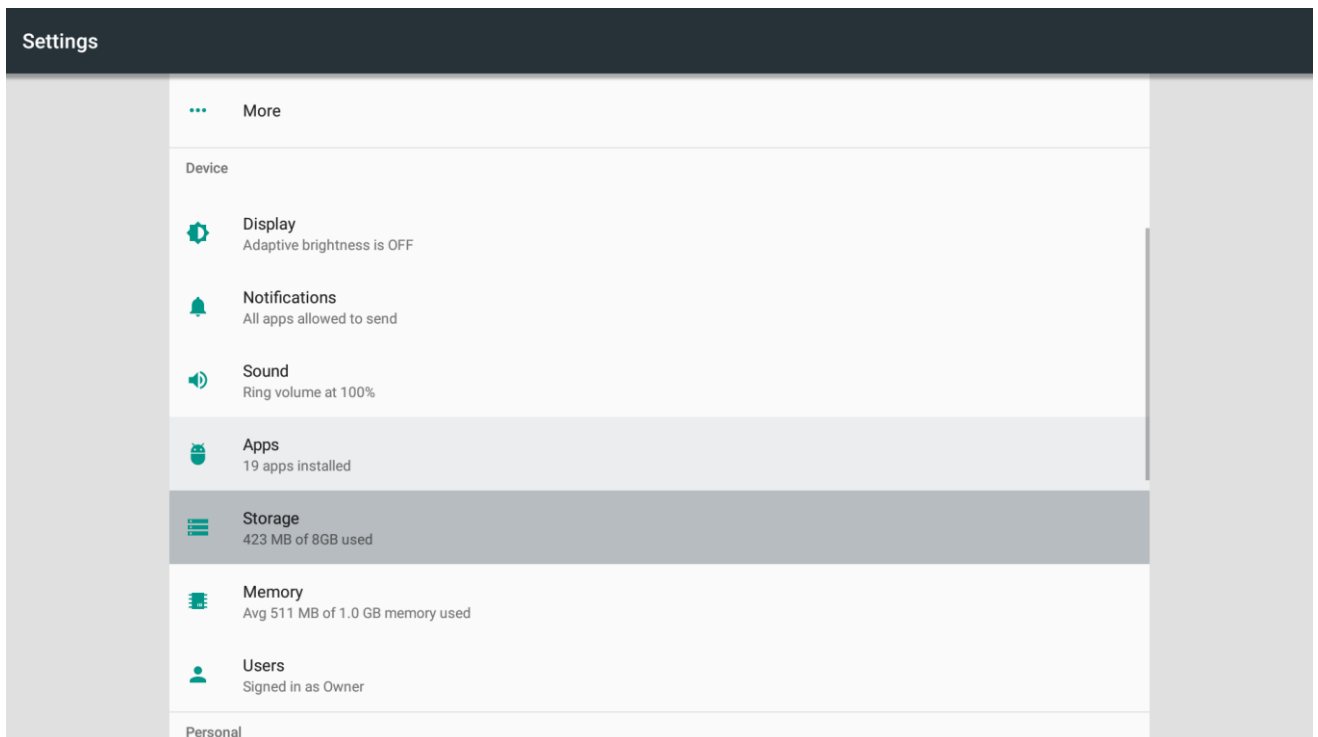


Figure-15

4.2.3.3 Personal

Users can set “Location/Security/Accounts/Google/ Language & input/Backup & reset” parameters in this part. (Figure-16)

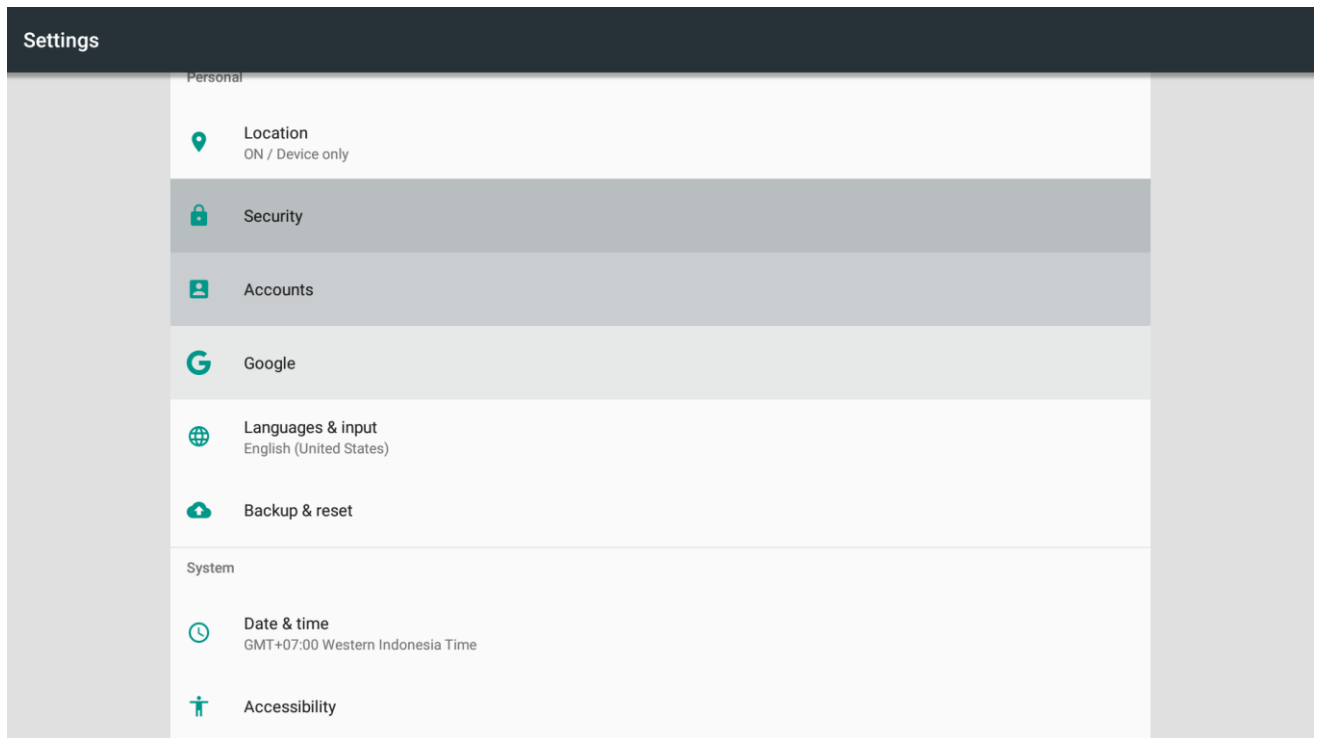


Figure-16

4.2.3.4 System

Users can set “Date & time/Accessibility/Version” parameters in this part. (Figure-17)

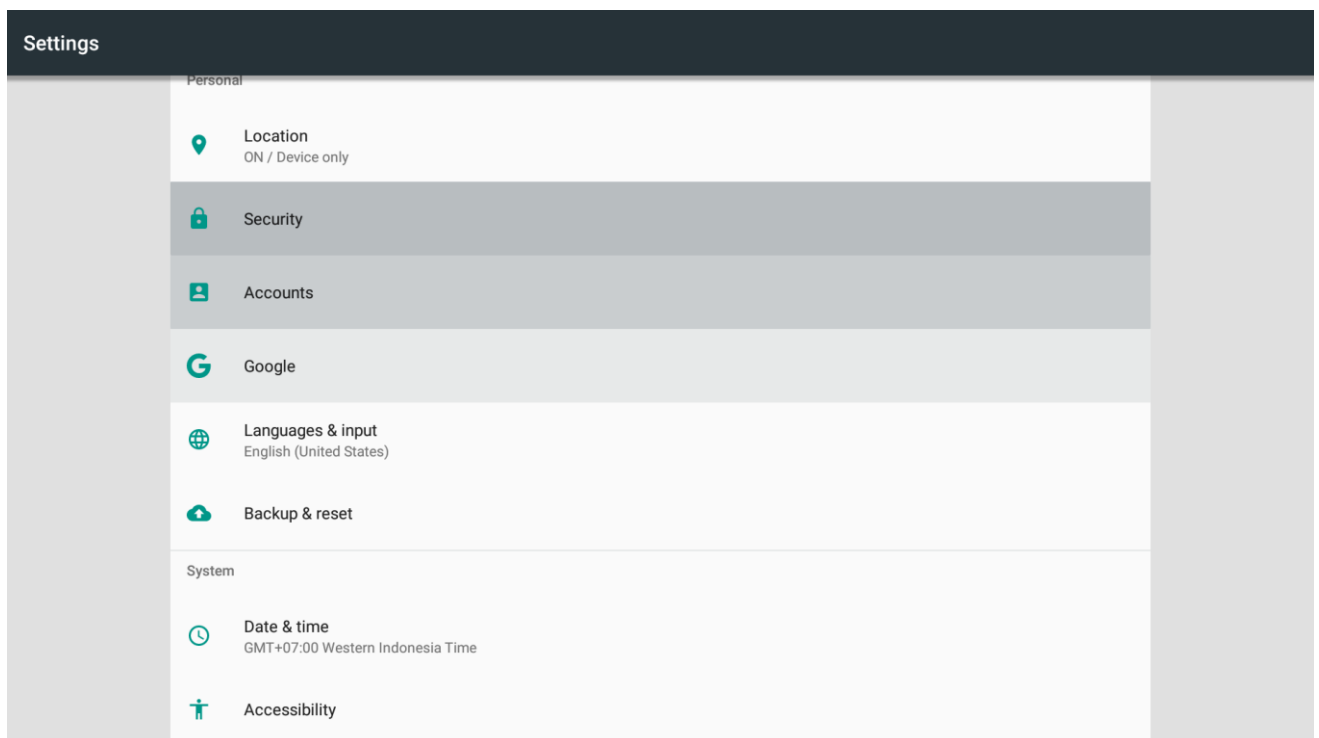


Figure-17

◆ 4.2.4 Downloads

Clicking “Downloads”, users can check the items which are downloaded. (Figure-18)

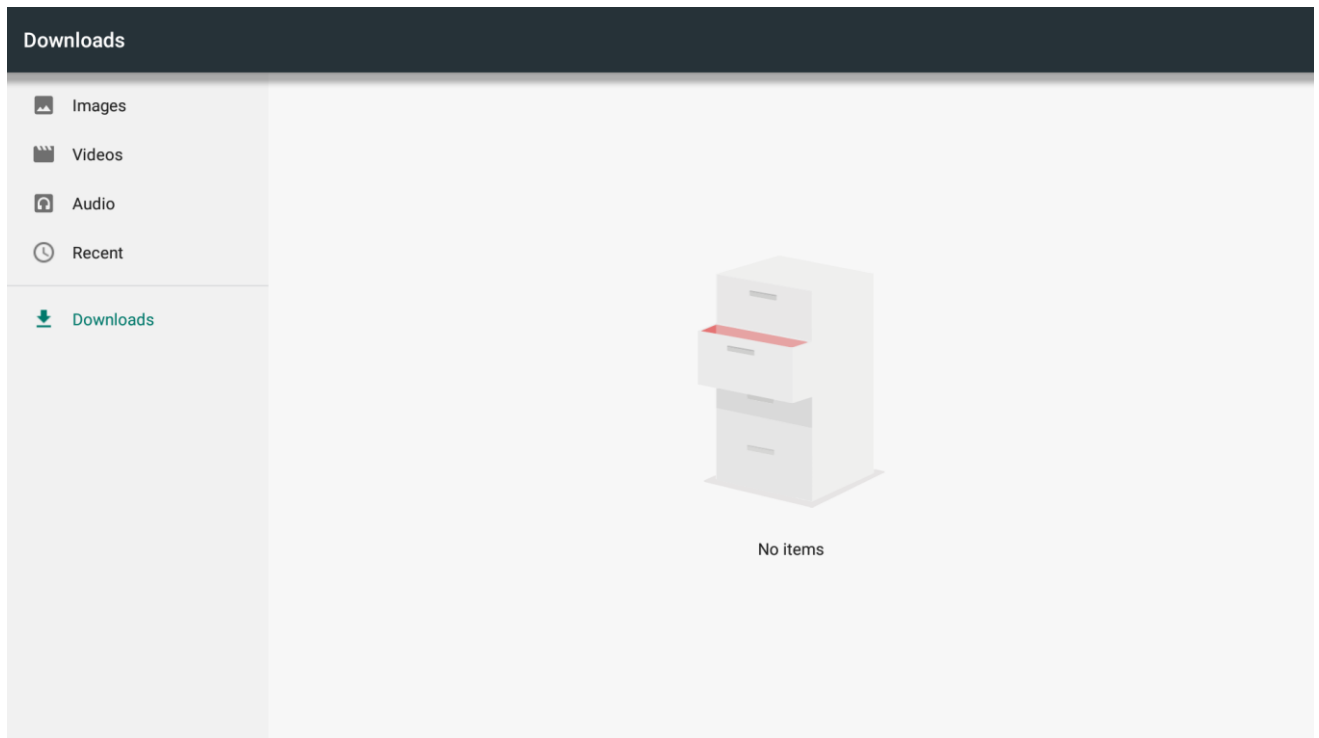



Figure-18

5 Application Program Installation (e.g.: Install ‘IPTV’)

Assume that the application program installation package (IPTV.apk) is in a USB disk. Insert the USB disk in the STB, it pops out an icon  on the home screen. (Figure-19)

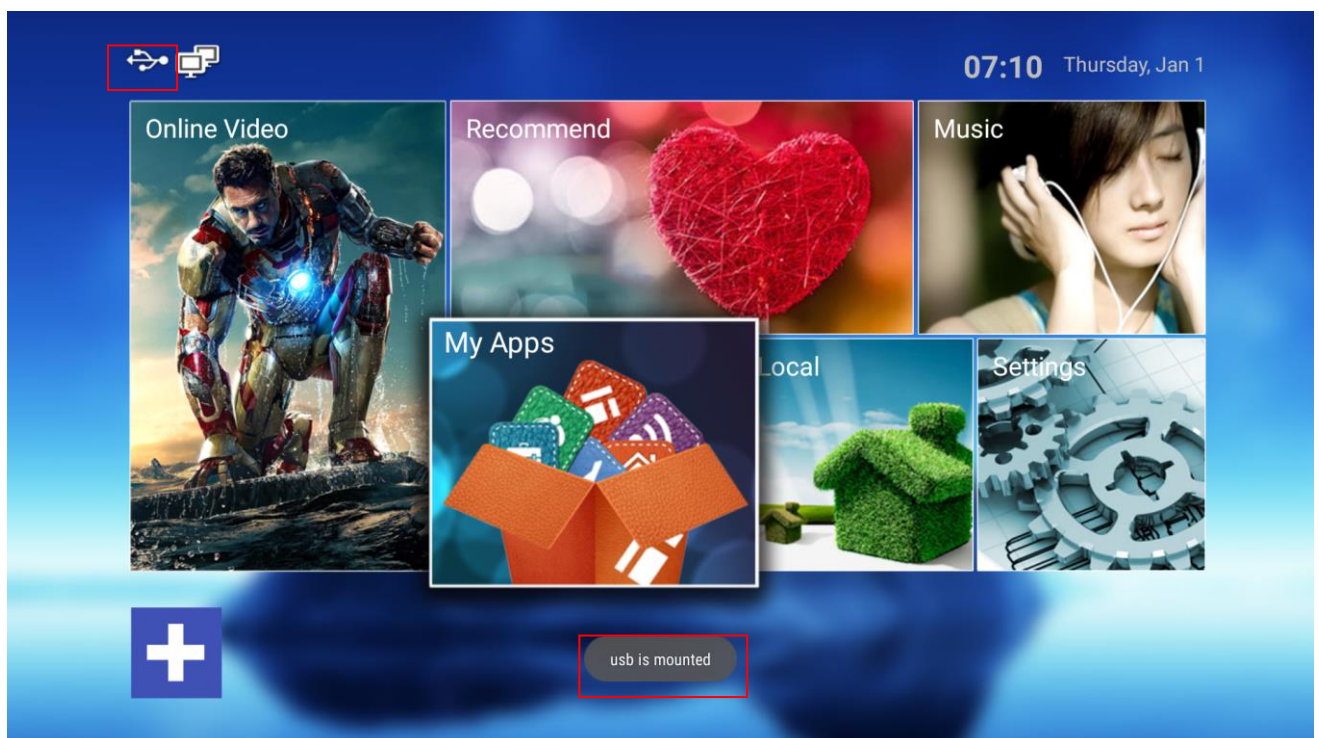


Figure-19

Click 'File Explorer' program in My Apps and select "USB" to open the USB programs. (Figure-20/21)



Figure-20

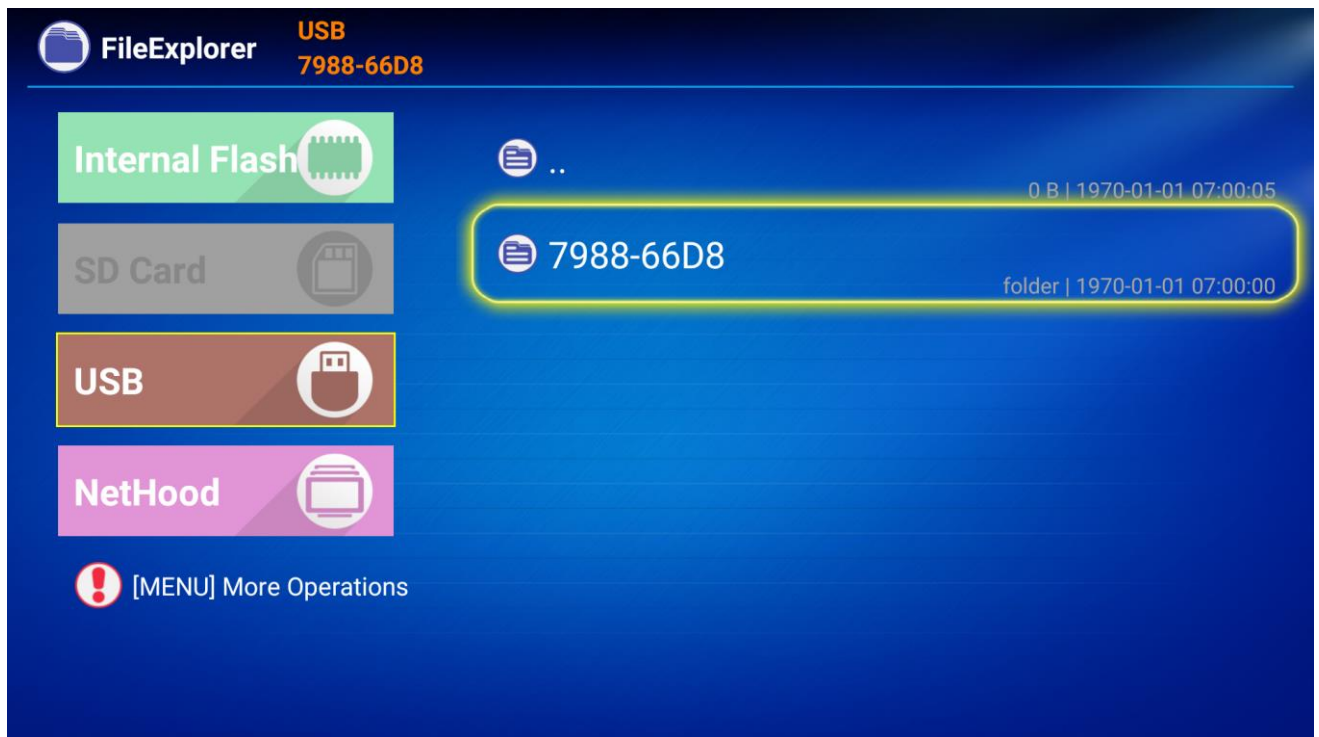


Figure-21

Select "iptv.apk" in the USB disk and press "OK" to continue. (Figure-22)



Figure-22

Press 'INSTALL' to start the 'IPTV' installation and press 'Done' to finish as shown in Figure-23/24.

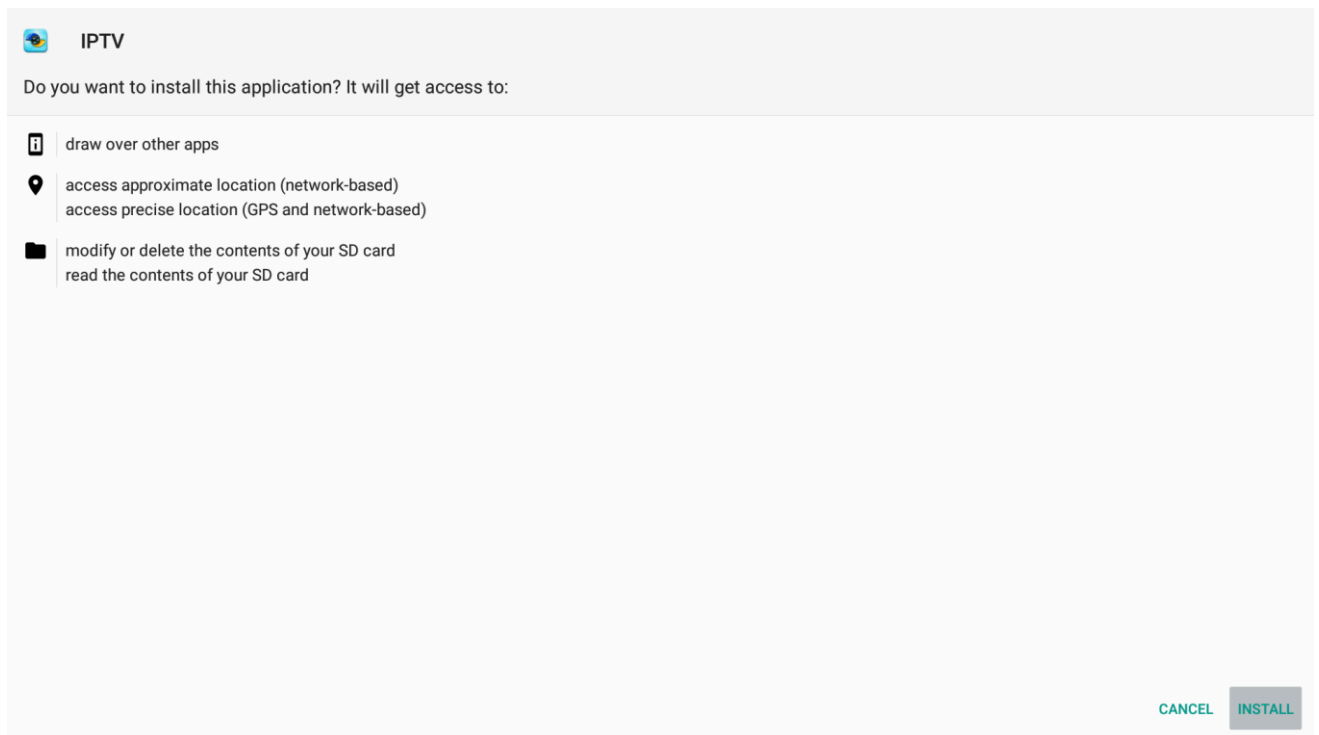


Figure-23

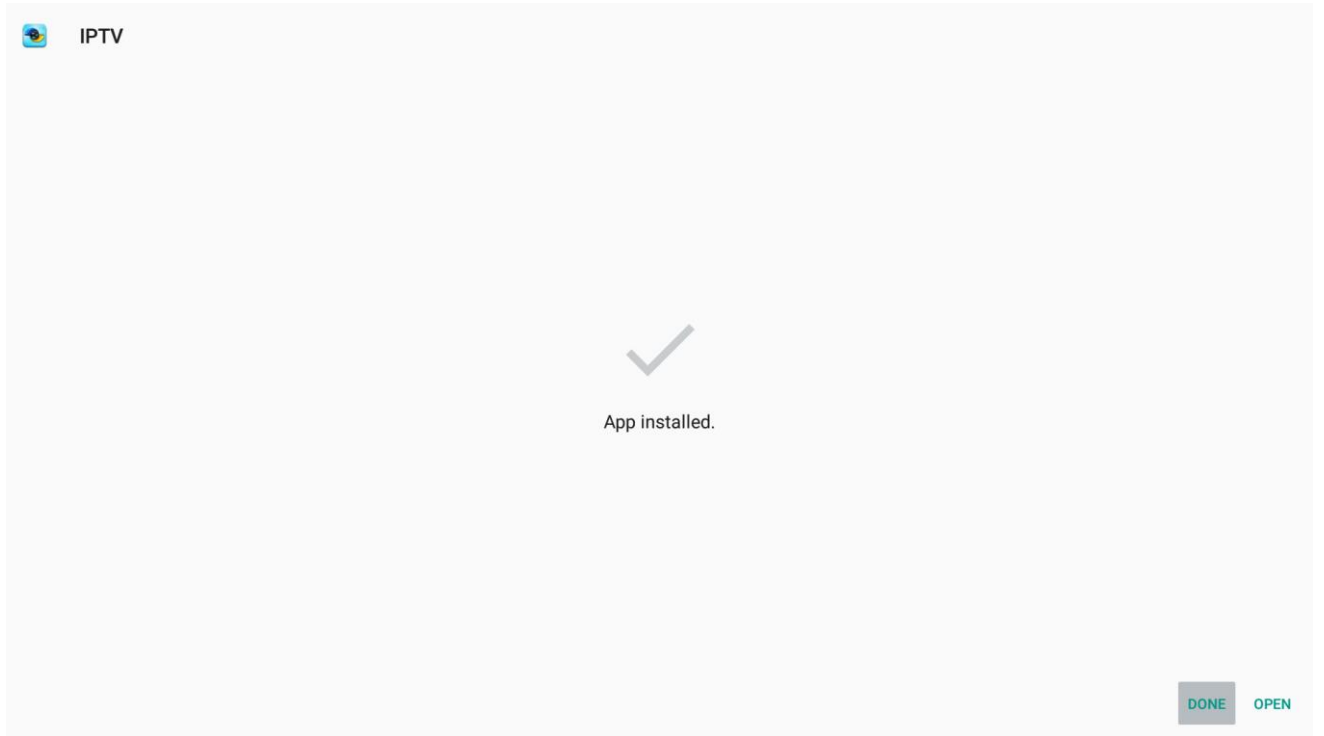


Figure-24

As shown in Figure-25, users can see the 'IPTV' icon in the Apps tag. Click this icon to enjoy the videos.



Figure-25

6 Trouble Shooting

Problem	Possible Solution
No Power	-Check to be that the power adaptor is properly connected and the power cord is right -Repress the power button on the remote control to restart the STB.
No Picture	-Check to be sure the TV set is powered on - Check to be sure that HDMI cable is connected properly (hand-tighten if necessary) -Replug HDMI cable - Check to be sure that TV input is HDMI
No sound	-Adjust the volume
No digital audio output	-Check to be sure that the digital output is properly connected - Check to be sure that the amplifier is properly set
Remote control does not work	-Make sure the remote control is properly pointed to the STB's receiving side. -Keep the remote control closer to the STB -Change the batteries in your remote control
STB has no response	-Certain operation is not allowed -There is big data in the network, it is required to re-plug net cable -Fall into suspended animation, re-plug power to restart box
No voice	-unsupported audio source in the video being played -Check volume value or mute status
It fails to read USB flash	-Incompatible USB device or memory type
USB flash reading speed is slow	-If the file stored in USB flash is with big size or high resolution, it is normally to take a relatively longer time to read.
HDMI output has no voice	- Check to be sure that the HDMI cable connects both STB and TV set properly or HDMI cable is damaged. - Check to be sure that the input setting on TV side is right - Check volume value or mute status
Black screen emerges for a long time	-Turn off the STB and re-start it after 30 seconds -Under HDMI, check the connection of HDMI cable or change another, and set the STB at 720p/1080p resolution