

Initiation


First thing you should see is player channel # 1

The default channels are set to the specific multicast IP addresses and port numbers, you can find this list on page 5

The list can be modified for different settings such as UDP/ RT/ RTSP /HLS unicast and multicast streams
Multicast IP streams setup can be done one of two ways.

- 1) **Manually** - setting the incoming multicast IP address and port numbers using your USB keyboard
- 2) **File** - Uploading the file.

Setting Up Set-Up Box for Multicast- Manually

1. Press the  Button on the remote. It's below the **TV Control** options.
2. Toggle to **TV Player** and press "**OK**" on remote.
3. You will see 4 options:
 - Live Tv
 - APPs
 - TV Config
 - Settings
4. Toggle to **TV Config** and Press "**OK**". Input default Password is 123456.
5. Select any feed and press "**OK**"
6. You can name the feed and you can enter the Multicast address and Port Number. For Example: **udp://224.2.2.2:10002**. Press OK.
7. The back arrow will return you to the **Main Menu**. Select **Live TV** to view streams.

Setting Up Set-Up Box for Multicast – From File












These are instructions on how to import data from a file on the USB drive. An example text file named "programs.txt" is attached for editing. (You can modify this attached list according to your required multicast streams and port numbers.)

1. Press Esc.
2. Navigate to TV Config.
3. Enter the password: 123456 and Press "**OK**".
4. Select "Import Program."
5. Choose the general USB drive.
6. Click on the ".txt" file.
7. Open the selected file.
8. Press "Open".
9. Go to Live TV.


Remote Control Settings


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)

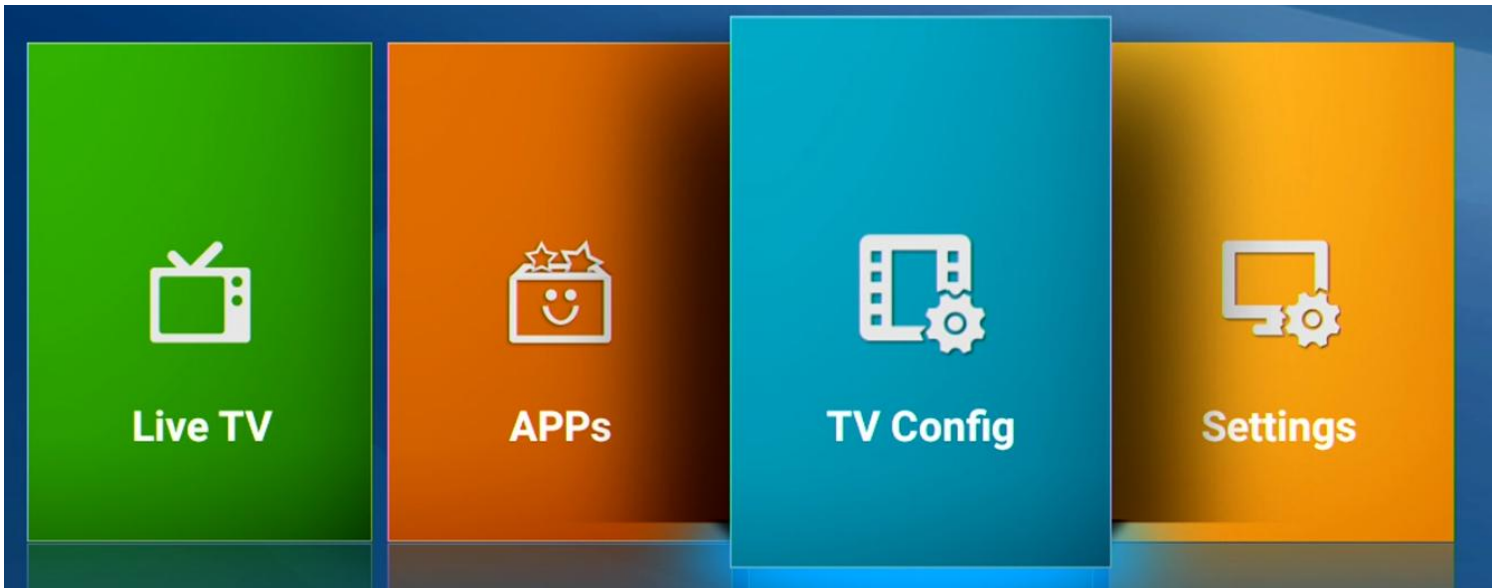
 **Power:** to turn on/off the TV set/learning key

 **SET:** learning key

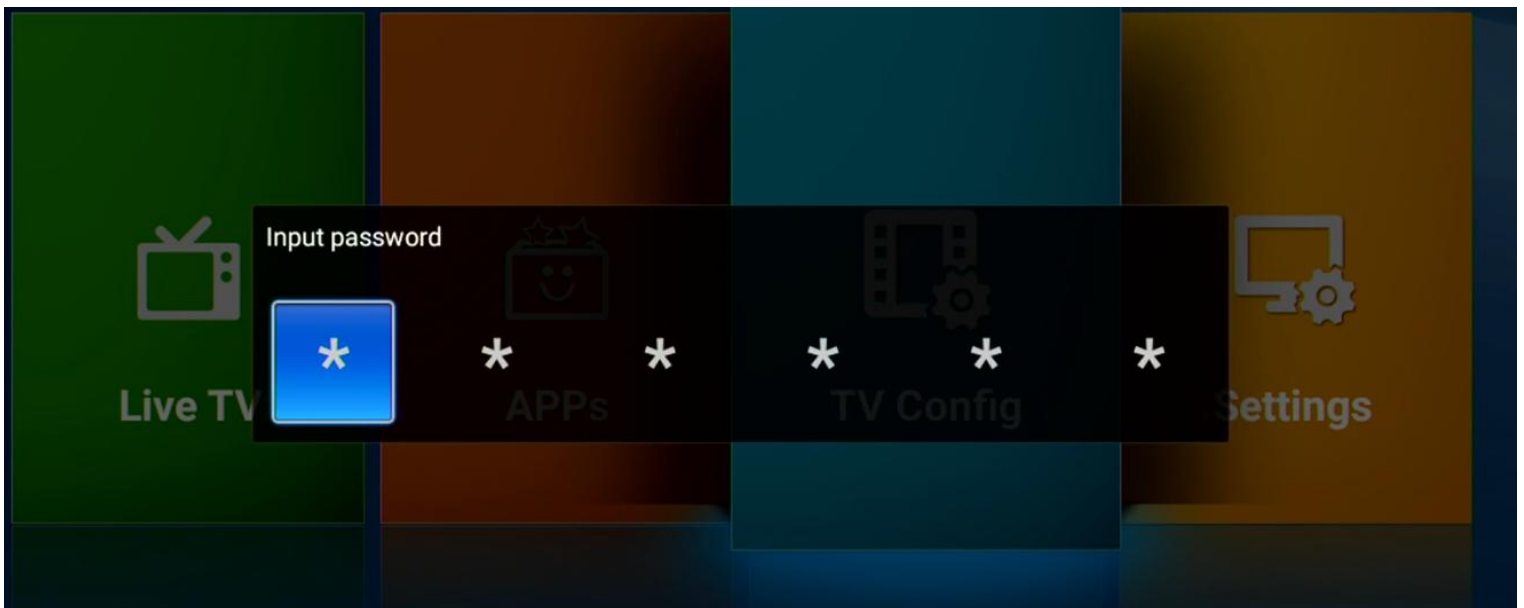
 **TV IN:** shift to live programs

 **Volume:** to control the volume of TV

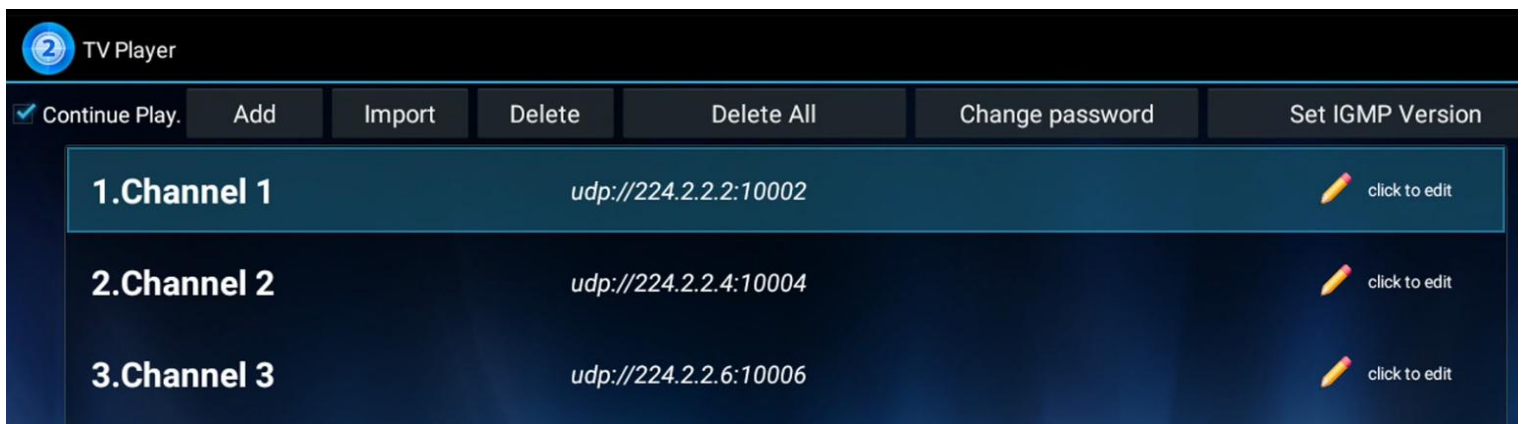
1. Select "TV Config" from the menu.



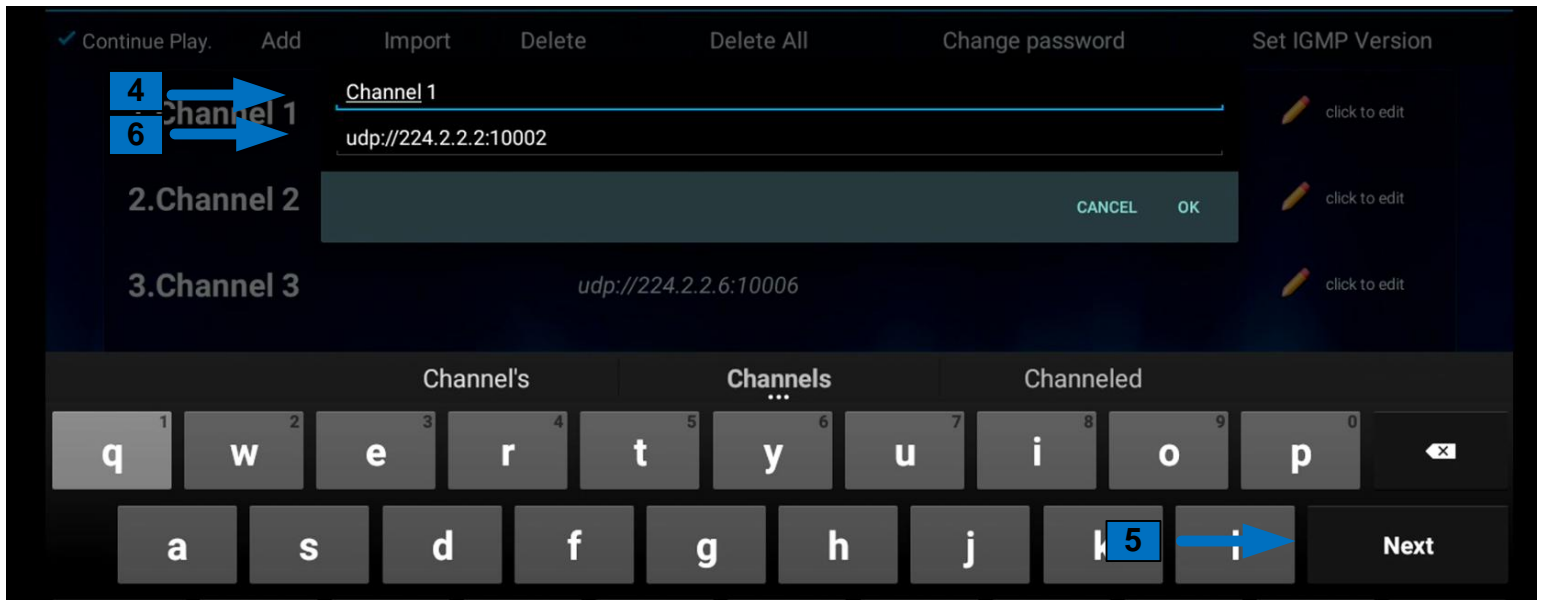
2. Enter the password "123456." Then press OK on remote.



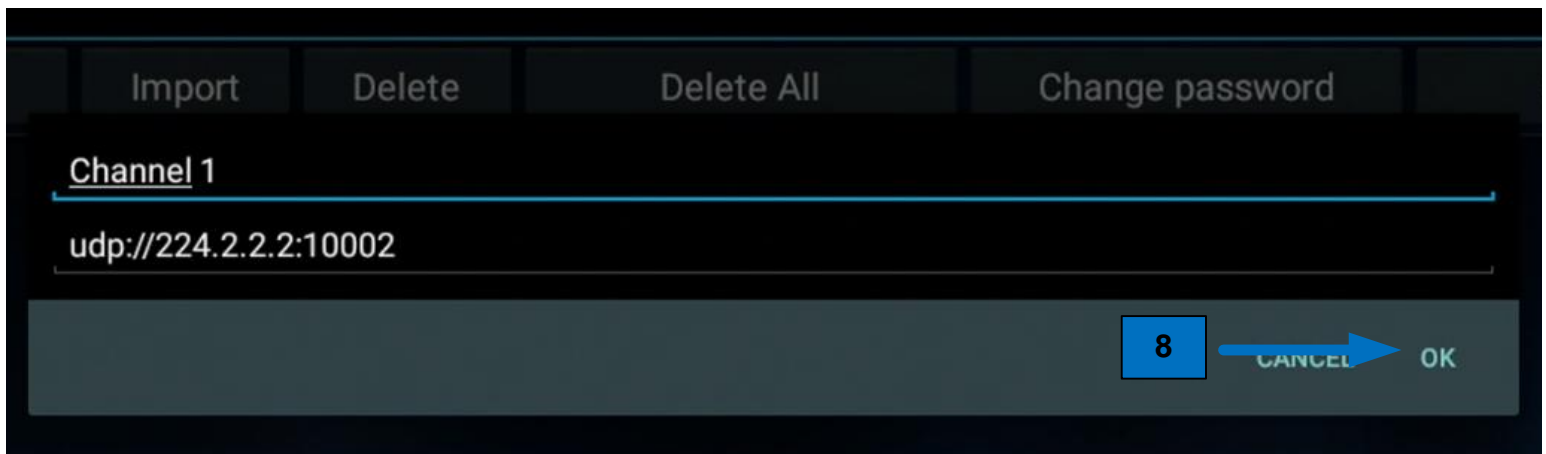
3. Click  on the remote to enter the editing mode.



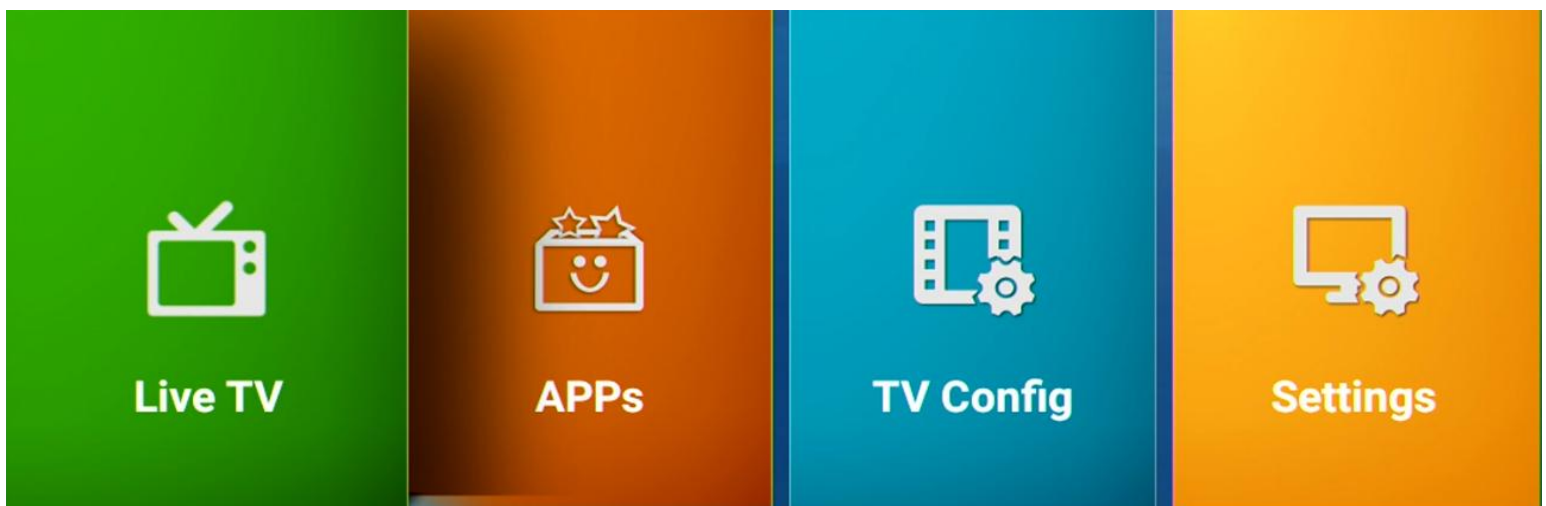
4. Assign a name to the channel, e.g., "Channel 1."
5. Press "NEXT" to modify the UDP address.
6. Manually adjust the UDP settings, e.g., udp://224.2.2.2:10002.
7. Upon completion, click the back arrow on the remote to close the keyboard pop-up.



8. Then utilize the  arrow on the remote to navigate to "OK" on the screen.

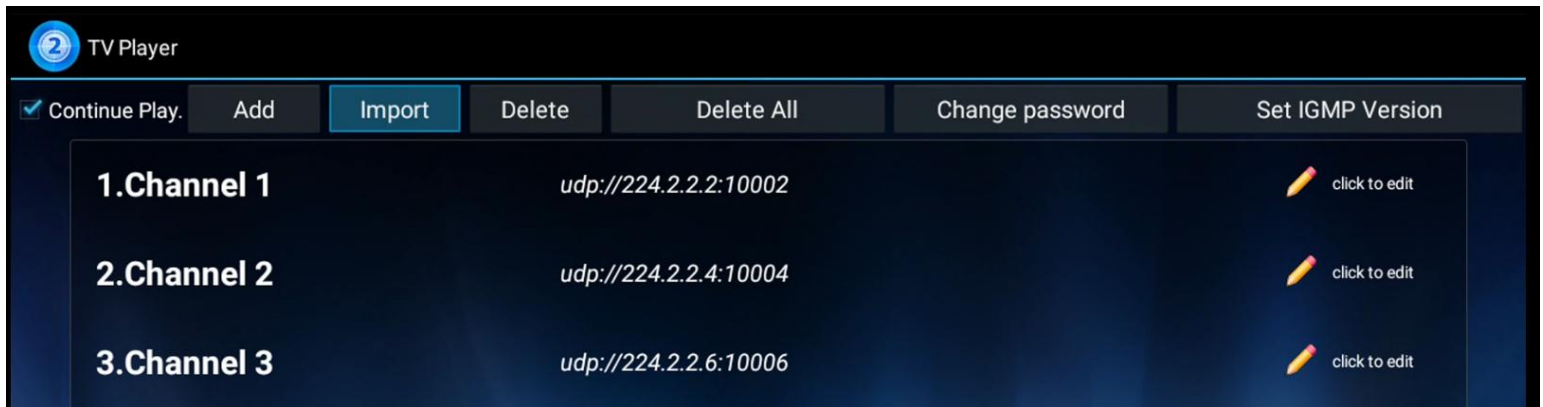


9. Press the "HOME" button on the remote to get back to main menu. Select Live TV to view streams.

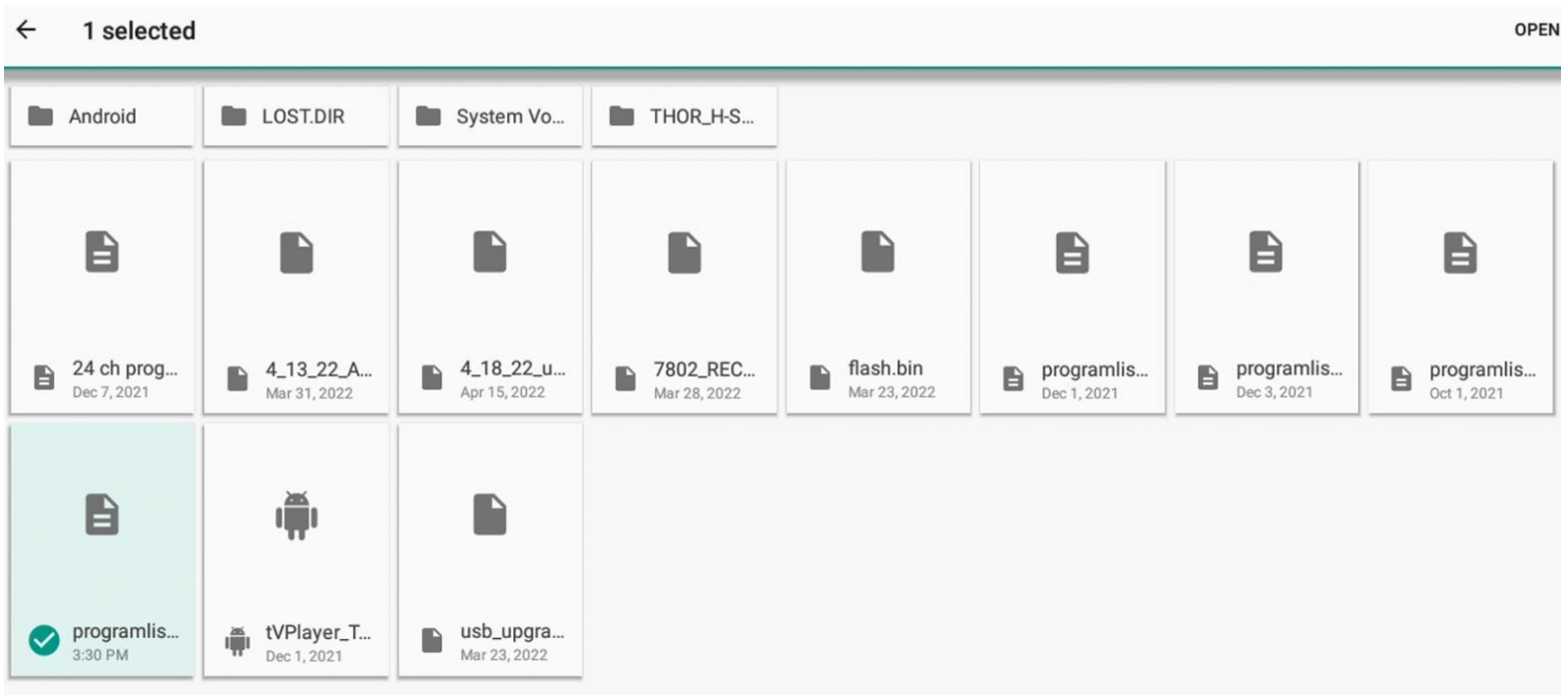


Setting Multicast – From File. Follow steps 1 & 2 from the manual guide

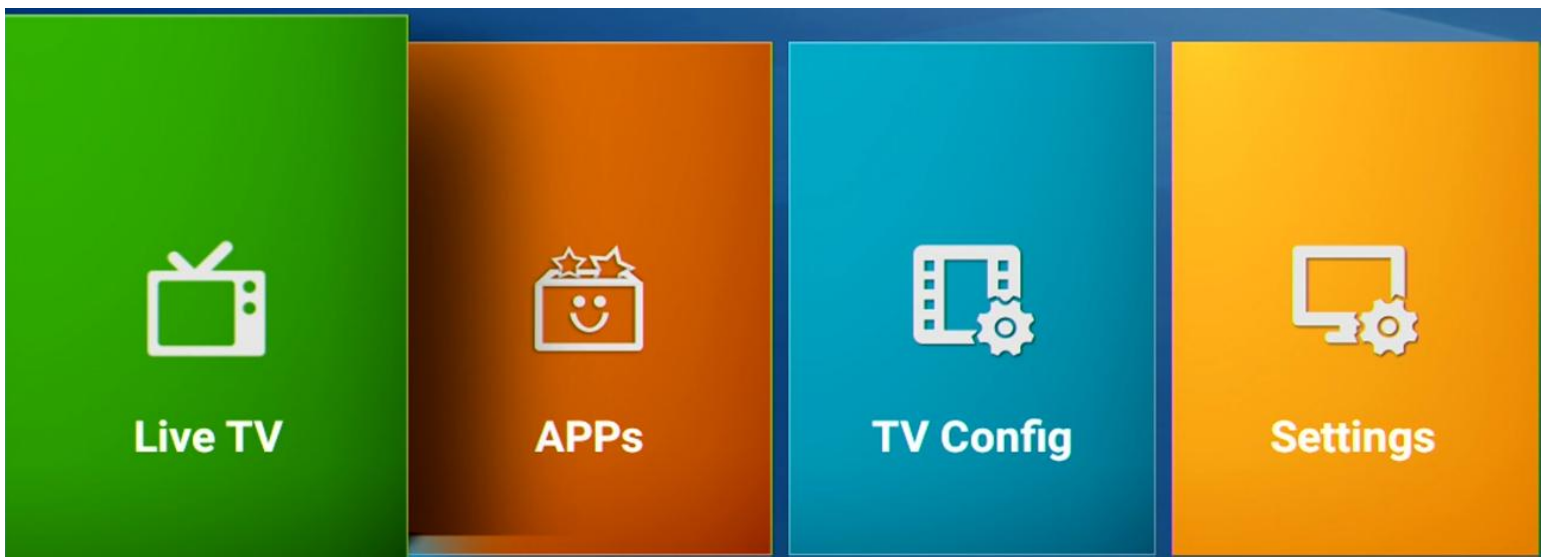
Select "Import Program."



Choose the general USB drive. Then click on the ".txt" file. Open the selected file.



Go back to main menu. Select Live TV.



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


Specifications

Software		Support flash11.1
	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

Troubleshooting Guide

- 1) The decoder does not display any video; it shows a black screen with the Channel #.
- 2) Check the incoming video multicast IP address using an external PO and VLC player. For example, use `udp://224.2.2.2:10002`.
 - If the stream plays correctly on VLC, double-check if the correct multicast IP address is programmed on the STB.

To confirm the correct multicast IP address, follow these steps:

- a. Press the back key twice. 
- b. Go to the TV Config screen and press OK.
- c. Input the password 123456 and press OK.
- d. The channel should be displayed, and it should match the 1st channel.
- e. Ensure your IP matches UPD; you can edit it or upload it from the file.
- f. Once confirmed, press the back button once.
- g. Go to settings, enter the password 123456, and press OK.

Now, scroll down to more:

- Ethernet
 - Make sure the STB Ethernet IP mode is set to DHCP.
 - Confirm it has received the proper IP address/network IP address.
 - If the address shows 0000, it means the STB is not connected to a DHCP-enabled router and didn't receive an IP address.
 - If the address is confirmed, press the arrow twice to go to the screen.
 - Select Live TV; if everything is confirmed, you should see the video.

Also, please ensure that the network switches are in order to receive multicast; they must have the IGMP protocol enabled to properly manage multicast streams.

Default Channel List; txt file.

<programlist>

```
<program name="Channel 1" url="udp://224.2.2.2:10002" />
<program name="Channel 2" url="udp://224.2.2.4:10004" />
<program name="Channel 3" url="udp://224.2.2.6:10006" />
<program name="Channel 4" url="udp://224.2.2.8:10008" />
<program name="Channel 5" url="udp://224.2.2.10:10010" />
<program name="Channel 6" url="udp://224.2.2.12:10012" />
<program name="Channel 7" url="udp://224.2.2.14:10014" />
<program name="Channel 8" url="udp://224.2.2.16:10016" />
<program name="Channel 9" url="udp://224.2.2.18:10018" />
<program name="Channel 10" url="udp://224.2.2.20:10020" />
<program name="Channel 11" url="udp://224.2.2.22:10022" />
<program name="Channel 12" url="udp://224.2.2.24:10024" />
<program name="Channel 13" url="udp://224.2.2.26:10026" />
<program name="Channel 14" url="udp://224.2.2.28:10028" />
<program name="Channel 15" url="udp://224.2.2.30:10030" />
<program name="Channel 16" url="udp://224.2.2.32:10032" />
<program name="Channel 17" url="udp://224.2.2.34:10034" />
<program name="Channel 18" url="udp://224.2.2.36:10036" />
<program name="Channel 19" url="udp://224.2.2.38:10038" />
<program name="Channel 20" url="udp://224.2.2.40:10040" />
<program name="Channel 21" url="udp://224.2.2.42:10042" />
<program name="Channel 22" url="udp://224.2.2.44:10044" />
<program name="Channel 23" url="udp://224.2.2.46:10046" />
<program name="Channel 24" url="udp://224.2.2.48:10048" />
```

</programlist>