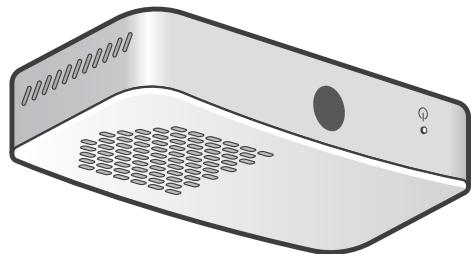


# Quick Start Guide



ZAT-600B

## Nextgen TV Box



## IR Remote Control

### Instructions for the learning function

Learning Keys: TV Mute, TV POWER, TV VOL+, TV VOL-, TV Yellow, TV Green

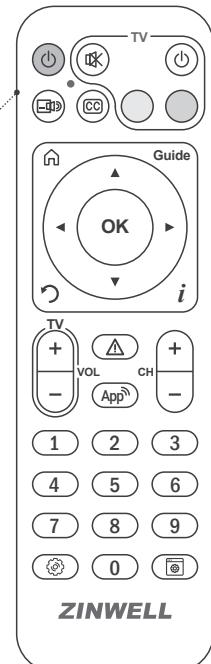
1. Long press the "POWER" button in the TV area for about 3 seconds, and the indicator light will change from off to long on, indicating that it has entered the learning state;
2. Then short press the button that needs to be learned in the learning area, such as power, and the indicator light will change from solid to slow flashing;
3. Aim the transmitting end of the TV remote control to be learned at the transmitting end of the remote control (about 3~5cm), and short press the learned button of the TV remote control. After the signal is learned, the indicator light flashes 3 times quickly and becomes long light state;
4. Repeat steps 2 and steps 3 to learn other keys in the TV area. Press any button outside the learning area to end learning;

#### Note:

1. During the learning process, if you wait for more than 10 seconds at any time, it will automatically exit the learning state.
2. During the learning process, press any button outside the learning area at any time to exit the learning state directly.
3. The two remote controllers must not shake during learning.

#### Instruction of the indicators:

1. The indicator flashes when the button is sending code.
2. When entering the learning state, the indicator light is always on.
3. If the learning is successful, the indicator light flashes 3 times.



## Federal Communication Commission Interference Statement

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 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.

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

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.

### FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.



## Package Contents

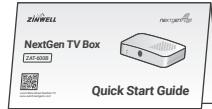
Check your product box for the following items



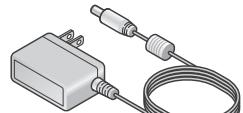
NextGen TV Box X 1



Remote Control X 1



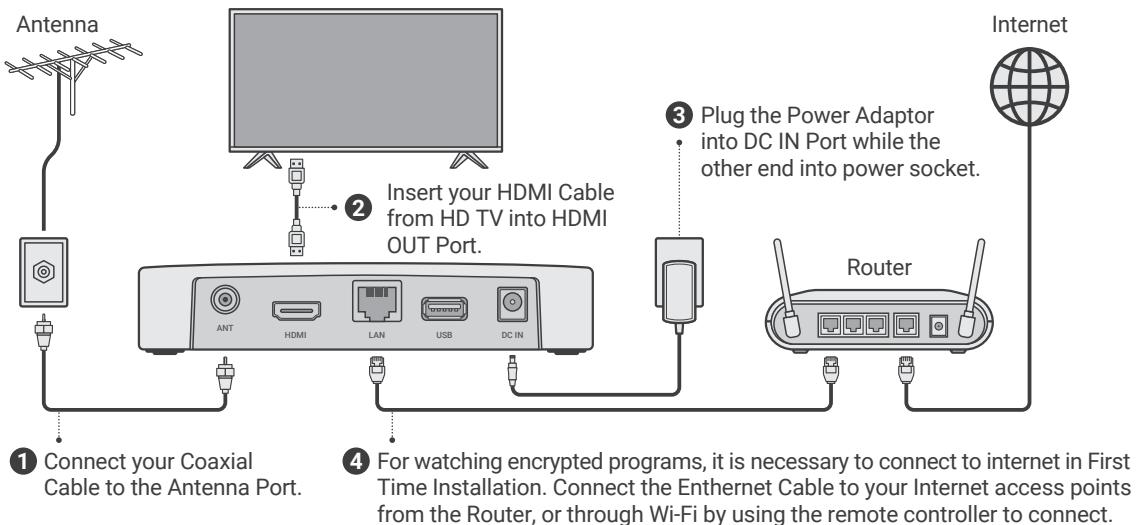
Quick Start Guide X 1



Power Adapter X 1

## Installing Your NextGen TV Box

For details, please refer to the Product website of [www.zinwell.com.tw/us](http://www.zinwell.com.tw/us)



# ATSC 3.0 ZAT-600B Broadband Set-Top-Box



## Installation and Description Guide

Version 2.1.6

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August 2023, Version 2.1.6

Broadband Set-Top-Box Model: ASTC 3.0 ZAT-600B

### Certified by



**Dolby Audio**

This product uses Dolby Audio technologies to play movies and TV shows in surround sound

## Federal Communication Commission Interference Statement

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 of the following measures:

- Reorient or relocate the receiving antenna.
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# Contents

1	Important Safety Instruction and Precaution .....	5
2	Knowing Your Broadband Set-Top-Box .....	6
2.1	Theory of Operation .....	6
2.2	Model Specification .....	6
2.3	Features	7
2.4	Package Contents .....	7
2.5	Panel Specification .....	8
3	Finding Out the IR Remote Control .....	9
	Instructions for the learning function .....	10
4	Installing Your Broadband Set-Top-Box .....	11
4.1	Installing Instruction in 3 Steps .....	11
5	Setting up the Program System – First Time Installation .....	12
6	(Wi-Fi ON) Connecting to Internet via Your Wi-Fi/AP Router .....	14
7	(Wi-Fi OFF) Connecting to Internet via Ethernet Network .....	17
8	Function Overview .....	18
8.1	Guide to the Setting System .....	19
8.2	Other Functions .....	20
8.2.1	Searching for the Available Channels (Auto Scan) .....	20
8.2.2	Searching for the Available Channels (Manual Scan) .....	20
8.2.3	Selecting Your Preferred Language for Audio .....	21
8.2.4	Turning Off the Caption .....	21
8.2.5	Selecting the Parental Rating .....	22
8.2.6	Time Setting .....	22
8.2.7	Setting the Display Duration .....	23
8.2.8	Changing the Administrator PIN .....	23
8.2.9	Obtaining the Program Content Introduction .....	24
9	Software Upgrading via OTA Service .....	25

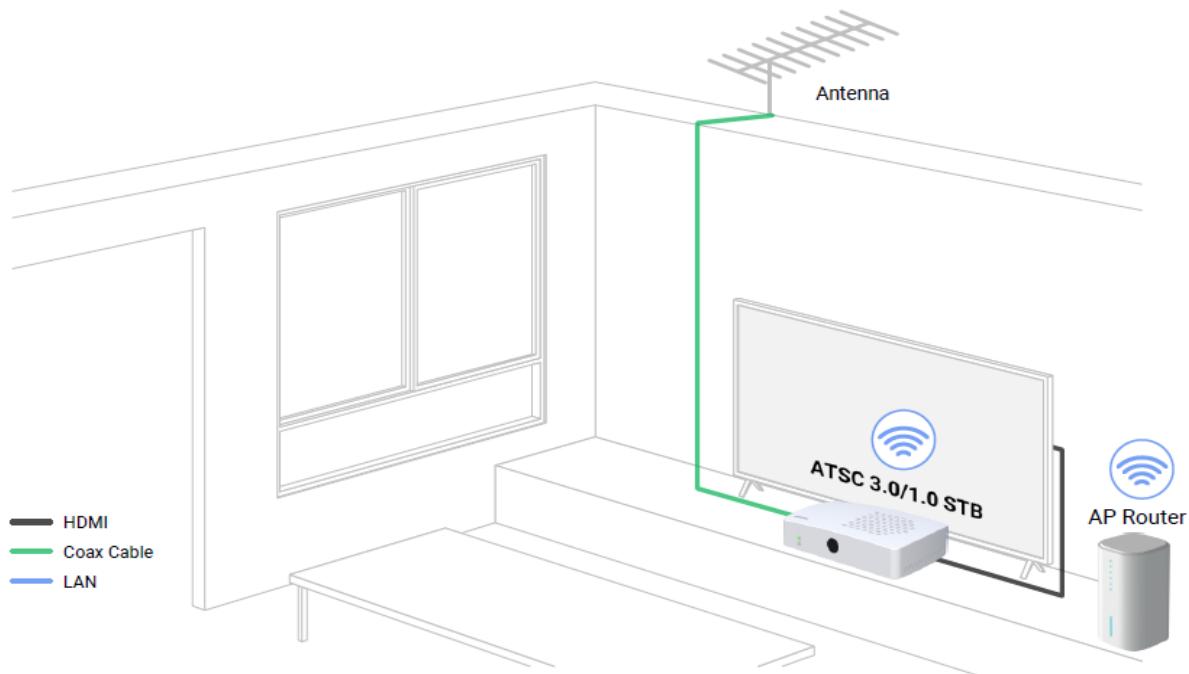
10	APK Installation and Software Upgrading via USB Storage Device .....	28
11	Trouble Shooting .....	31
12	Contacting Us .....	31

## 1 Important Safety Instruction and Precaution

- Read through all the instructions carefully before use.
- Operate this product only in the manner described.
- Only a Water-dampened soft-cloth is recommended to clean the surface of this product.
- Do not expose this product excess vibration.
- Keep this product in well ventilated areas.
- The following substance or condition will cause the damage to this product:
  - any liquid such as water or moisture
  - extreme heat, cold, humidity
  - dusty or sandy environments
- During lightning storms, disconnect this product from electrical mains and antenna.
- Only place this device on stable surfaces and ensure that any attached cables are secure and will not cause the device to fall.
- There are no user serviceable parts in this product.
- Any un-authorized attempt to disassemble or repair this product will void product warranty and may cause dangerous electric shock.
- Retain the manuals for future reference.
- ONLY remove any power or data cords by pulling them from the plug.
- Using this product near other electronic devices may cause interference.
- Images shown in this document are for references only and there may be differences between images and actual products.
- Do not mix old and new batteries in the IR remote control.

## 2 Knowing Your Broadband Set-Top-Box

### 2.1 Theory of Operation



### 2.2 Model Specification

<b>Tuner Input</b>	ATSC1.0/3.0 Dual Mode Tuner	01 Tuner
	Frequency Range	42MHz ~ 866MHz
<b>Video (optional)</b>	Decode	MPEG2 (ATSC 1) HEVC 4Kp60 (ATSC 3)
	Output	HDMI 2.1
<b>Audio (optional)</b>	Decode	AC-3 (ATSC 1) AC-4 (ATSC 3)
	Output	HDMI 2.1
<b>Ethernet</b>	10/100M	RJ-45
<b>Wi-Fi</b>	2.4/5Ghz 1T1R	802.11b/g/n/a/ac
<b>DC Power Adaptor</b>	DC Jack	12V / 1.5A
<b>Peripheral</b>	USB 3.0	USB Type A
<b>LED indicator</b>		ON: White, Standby: Red
<b>Remote Control</b>	IR + Learning Type	34 Keys (incl. 6 keys with learning function)
<b>Dimension</b>		160 x 75.8 x 34 (mm)
<b>HDCP</b>	HDCP 1.4, HDCP 2.2, HDCP 2.3	

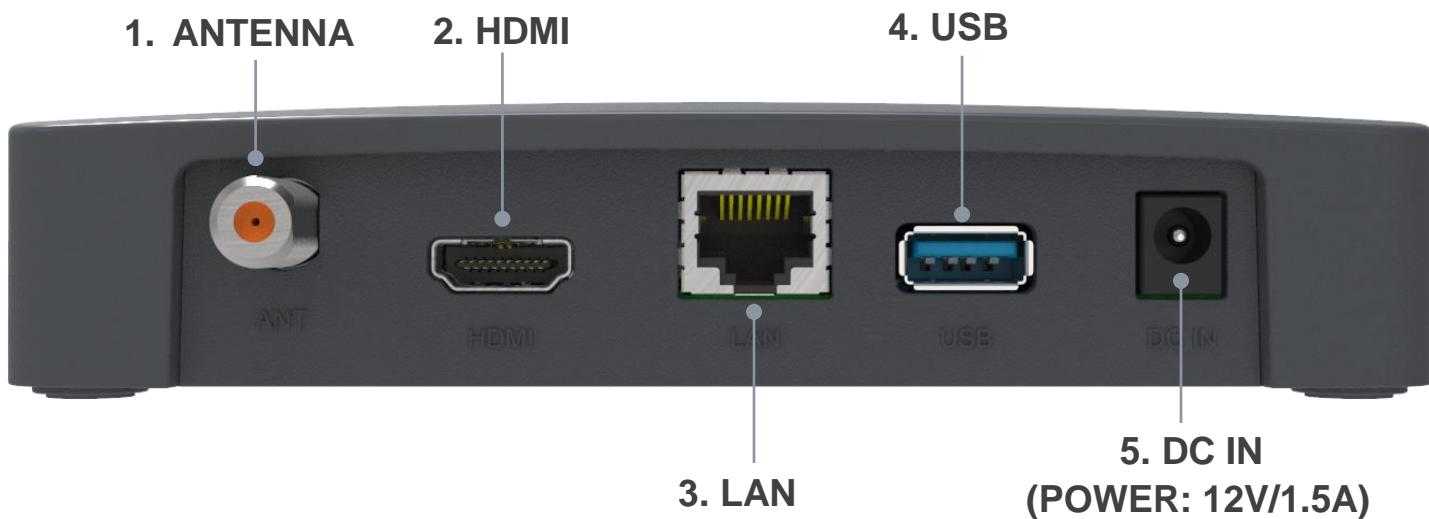
## 2.3 Features

- Emergency alerting system
- ATSC 3.0 broadcast application compliant
- ATSC 3.0 / 1.0 receiving capability
- 4k UHD Video
- Remote learning Application

## 2.4 Package Contents

- 1 x STB-ASTC 3.0 Broadband Set-Top-Box
- 1 x IR Remote Control
- 1 x Power Adaptor (12V/1.5A)
- 1 x Installation and Description Guide (This Document)

## 2.5 Panel Specification



- **1. Antenna port** is to connect the cable from your aerial
- **2. HDMI out port** is to connect the cable from your display
- **3. LAN port** is for Ethernet (RJ45) network or internet access
- **4. USB port** is for peripherals such as thumb drive, storage devices and so on
- **5. DC IN** is to connect the power adapter (12V/1.5A) to provide power to the Broadband Set-Top-Box

### 3 Finding Out the IR Remote Control



## Instructions for the learning function

Num	Silk-screen	Function
1		POWER
2		TV Mute
3		TV POWER
4		AUDIO
5		CLOSE CAPTION
6		TV yellow
7		TV green
8		HOME
9		Guide
10		Up
11		Down
12		Left
13		Right
14		OK
15		BACK
16		INFO
17		TV VOL+
18		TV VOL-
19		ALERT
20		BA
21		CH+
22		CH-
23		1
24		2
25		3
26		4
27		5
28		6
29		7
30		8
31		9
32		Android Setting
33		0
34		APP Setting

Learning Keys : TV Mute、TV POWER、TV VOL+、TV VOL-、TV yellow、TV green



1. Long press the "power" button in the TV area of the remote control for about 3 seconds, and the indicator light will change from off to long on, indicating that it has entered the learning state;
2. Then short press the button that needs to be learned in the learning area, such as power, and the indicator light will change from solid to slow flashing;
3. Aim the transmitting end of the TV remote control to be learned at the transmitting end of the remote control (about 3~5cm), and short press the learned button of the TV remote control. After the signal is learned, the indicator light flashes 3 times quickly and becomes long light state;
4. Repeat steps 2 and 3 to learn other keys in the TV area. Press any button outside the learning area to end learning;
5. During the learning process, if you wait for more than 10 seconds at any time, it will automatically exit the learning state.
6. During the learning process, press any button outside the learning area at any time to exit the learning state directly.

Note: The two remote controllers must not shake during learning.

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### Instruction of the indicators:

1. The indicator flashes when the button is sending code.
2. When entering the learning state, the indicator light is always on.
3. If the learning is successful, the indicator light flashes 3 times.

## 4 Installing Your Broadband Set-Top-Box

### 4.1 Installing Instruction in 3 Steps

\*Before Reading the Instructions

→ Refer to the **Section 2.5 Panel Specification** for the location of **each port or button** mentioned below

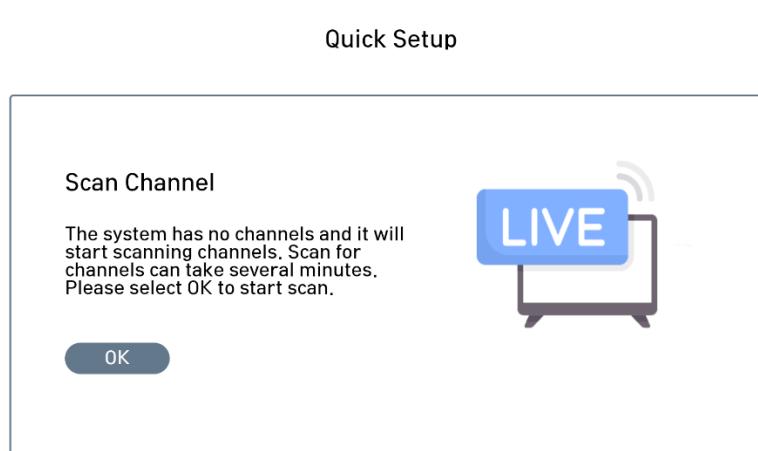
Step 1. Connect your **Coaxial Cable** to the **Antenna Port**

Step 2. Insert your **HDMI cable** from **HD TV** into **HDMI OUT Port**

Step 3. Plug the **power adaptor** into **DC IN Port** while the other end into power socket

## 5 Setting up the Program System – First Time Installation

(Note: For watching encrypted channels it is necessary to connect to the internet either via Wi-Fi or Ethernet. Please refer to Section 6 and 7 for connecting to the internet.)



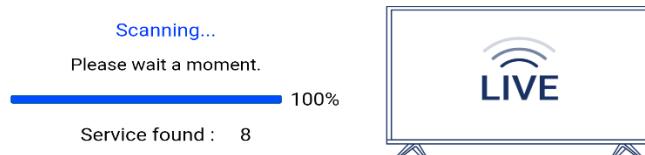
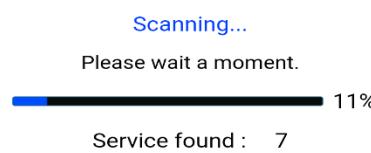
Step 1.

**Turn ON the Power of Set-Top-Box. Quick Setup** page will be shown as the image on the left side. Press **OK** to confirm.

Step 2.

### Process of Channel

**Scanning** will be completed once the **percentage bar** has reached **100%**.



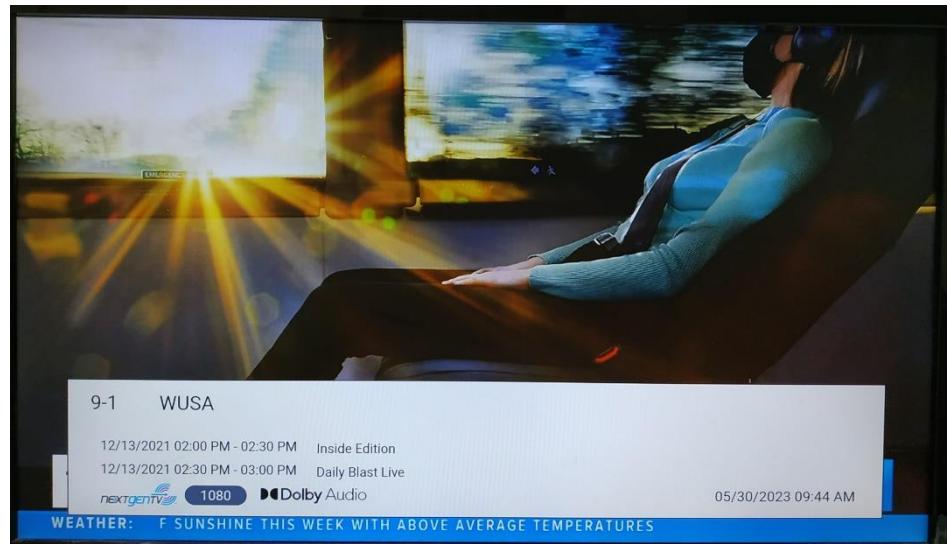
Step 3.

**“Service found”** stands for **available TV channels** during scanning.



Step 4.

After completion of  
Channel Scanning, **the  
program will start  
displaying.** Refer to the  
image on the right side,



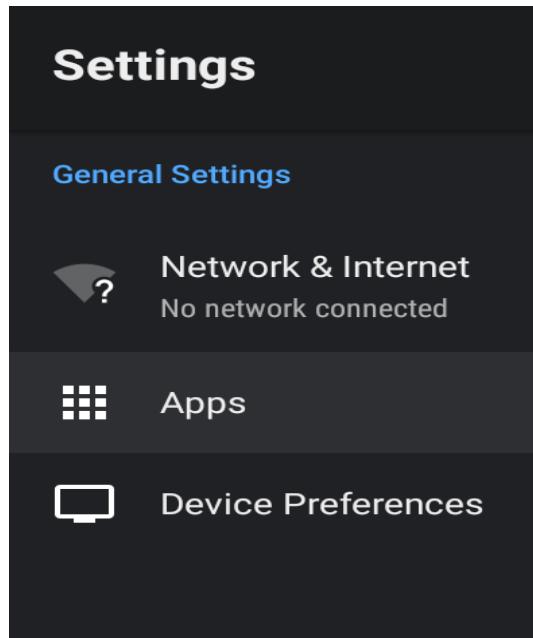
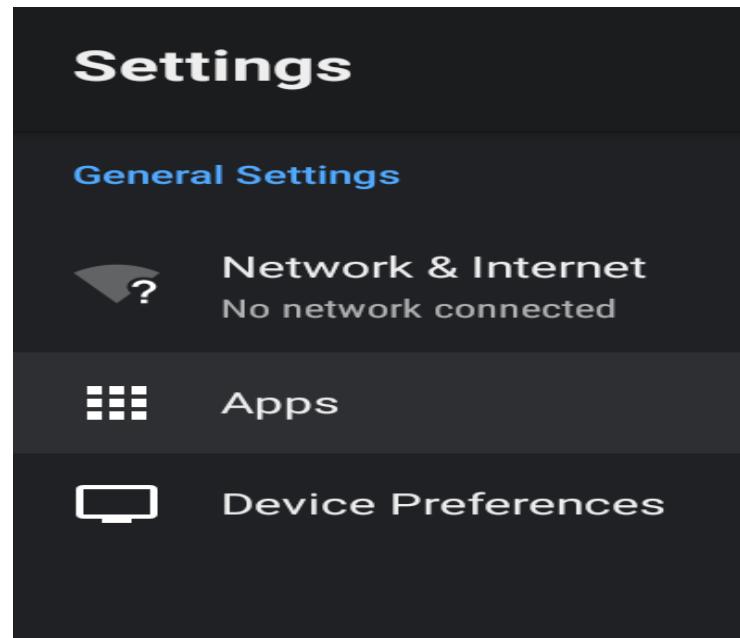
## 6 (Wi-Fi ON) Connecting to Internet via Your Wi-Fi/AP Router

\*Before Reading the Instructions

- The **Wi-Fi** and **Ethernet** functions **CANNOT** be executed **at the same time**. Ensure the Broadband Set-Top-Box is **NOT CONNECTED** to any **Ethernet Cable** before **ENABLING** Wi-Fi function in the Broadband Set-Top-Box.

Turn **ON** the Power of Broadband Set-Top-Box (IF it's the First Time Installation) -> Press the **"SETTING"** button (Android Setting Key) on the remote controller (Refer to the Image on the right side)

(IF Any) Ensure the **Ethernet Cable** is **DISCONNECTED** to the Broadband Set-Top-Box.



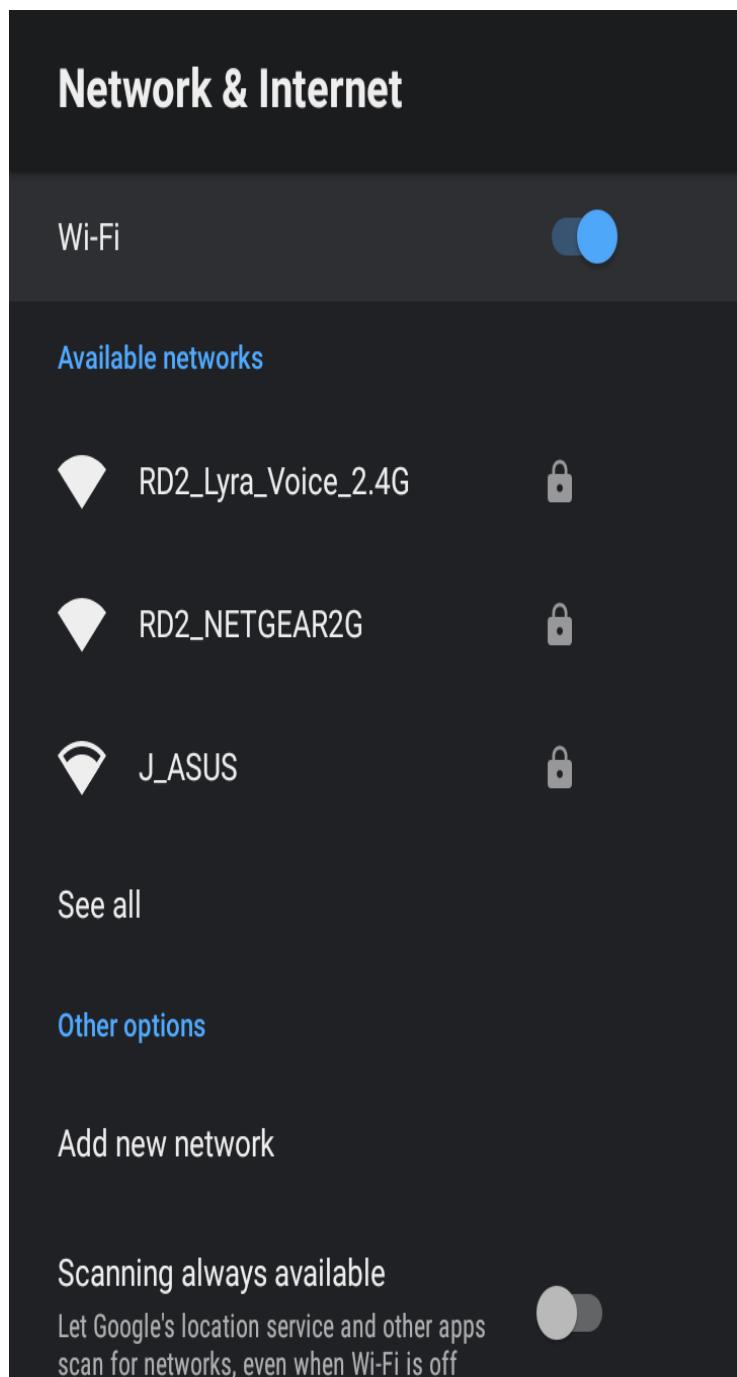
Select **Network & Internet** -> Press **OK** on the remote control to confirm

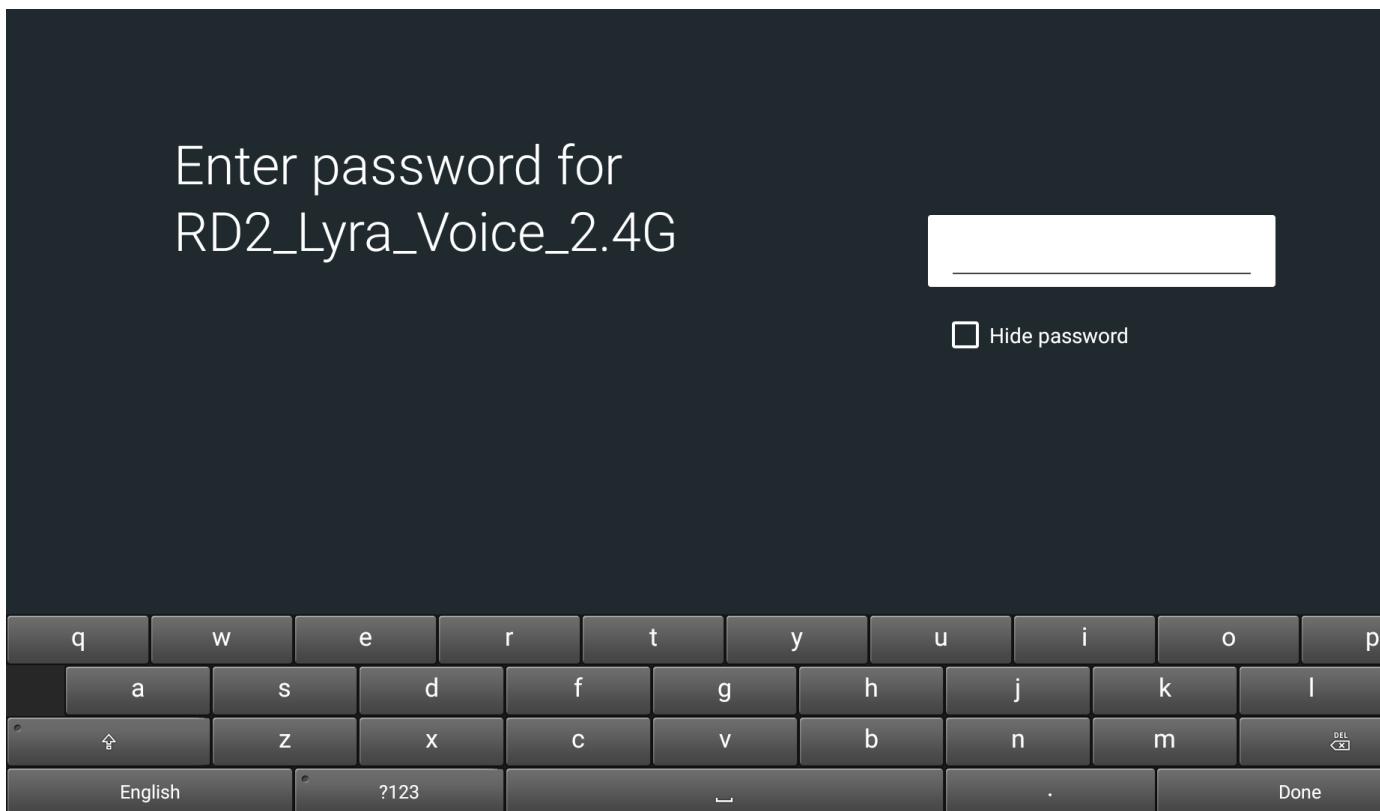
Use **Cursor Keys** (▲ ▼ ◀ ▶) on the remote control to **MOVE** to **Wi-Fi** ->

Press **OK** on the remote control to **ENABLE Wi-Fi**

A list of **Available 2.4G Network** will be shown.

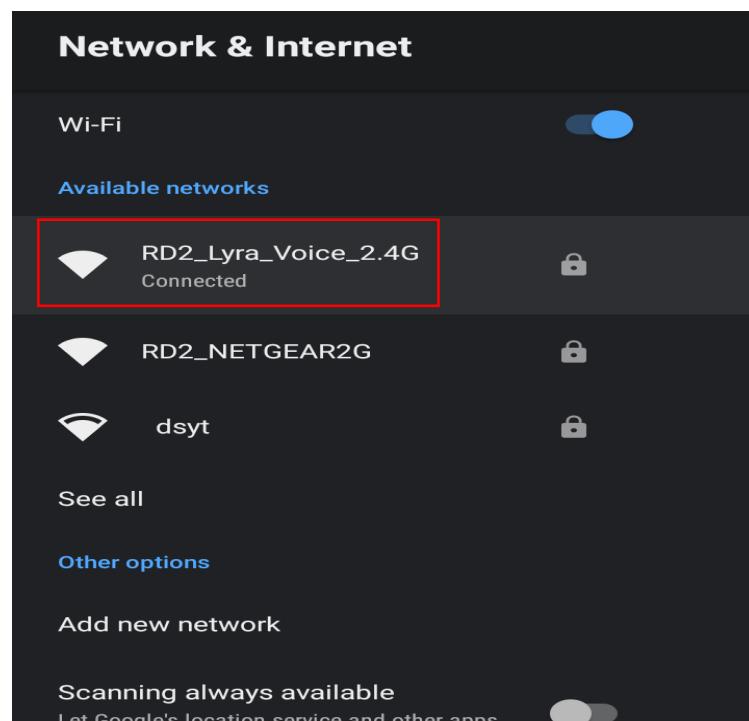
Use **Cursor Keys** (▲ ▼ ◀ ▶) on the remote control to **MOVE** to **your preferred Wi-Fi/AP Router** -> Press **OK** to confirm. (Refer to the image on the right side)





(IF Any) Use **Cursor Keys** (▲ ▼ ◀ ▶) on the remote control to enter the **PASSWORD** of your Wi-Fi/AP router (RD2\_Lyra\_Voice\_2.4G here is as an example) -> Use **Cursor Keys** (▲ ▼ ◀ ▶) on the remote control and move to **Done** for confirmation (Refer to the image above)

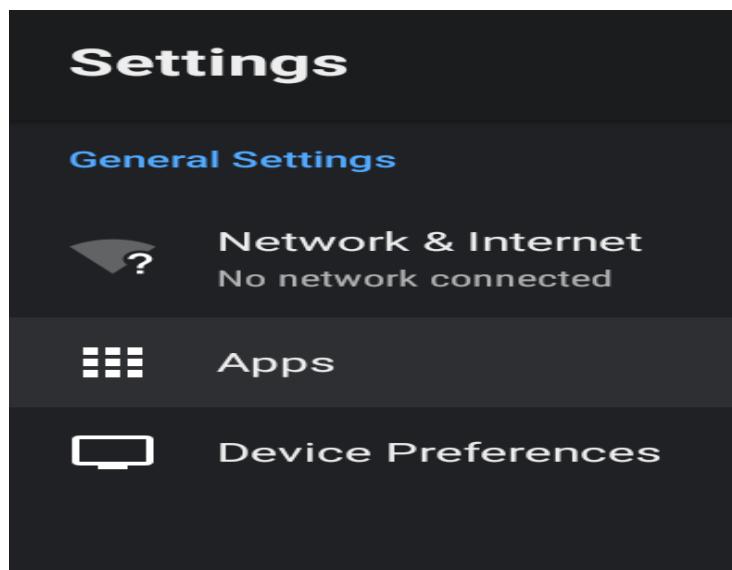
When the connection is successful, the status **“CONNECTED”** will appear. (Refer to the image on the right side)



## 7 (Wi-Fi OFF) Connecting to Internet via Ethernet Network

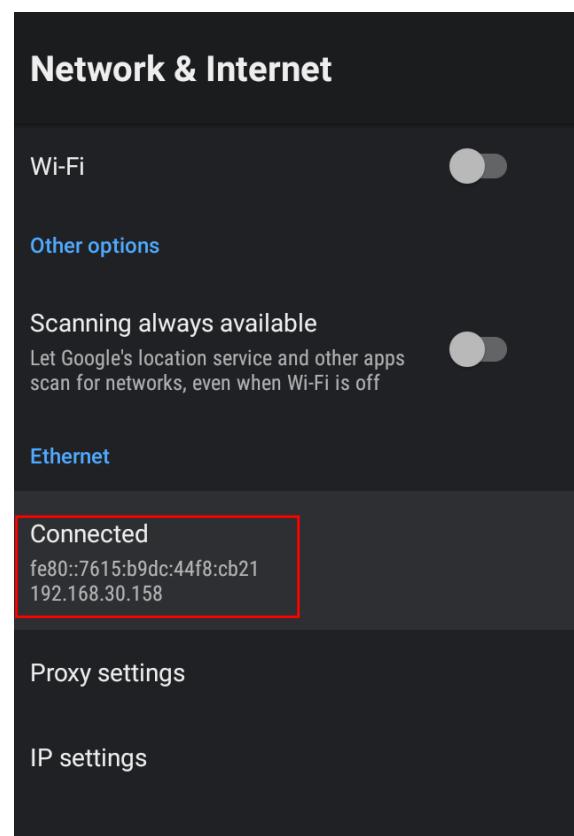
\*Before Reading the Instructions

- The **Wi-Fi** and **Ethernet** functions **CANNOT** be executed **at the same time**. Ensure the Broadband Set-Top-Box is **NOT CONNECTED** to any **Wi-Fi** before connecting to the **Ethernet Cable**.
- Refer to the **Section 2.5 Panel Specification** for the **location** of each **port** or **button** mentioned below.

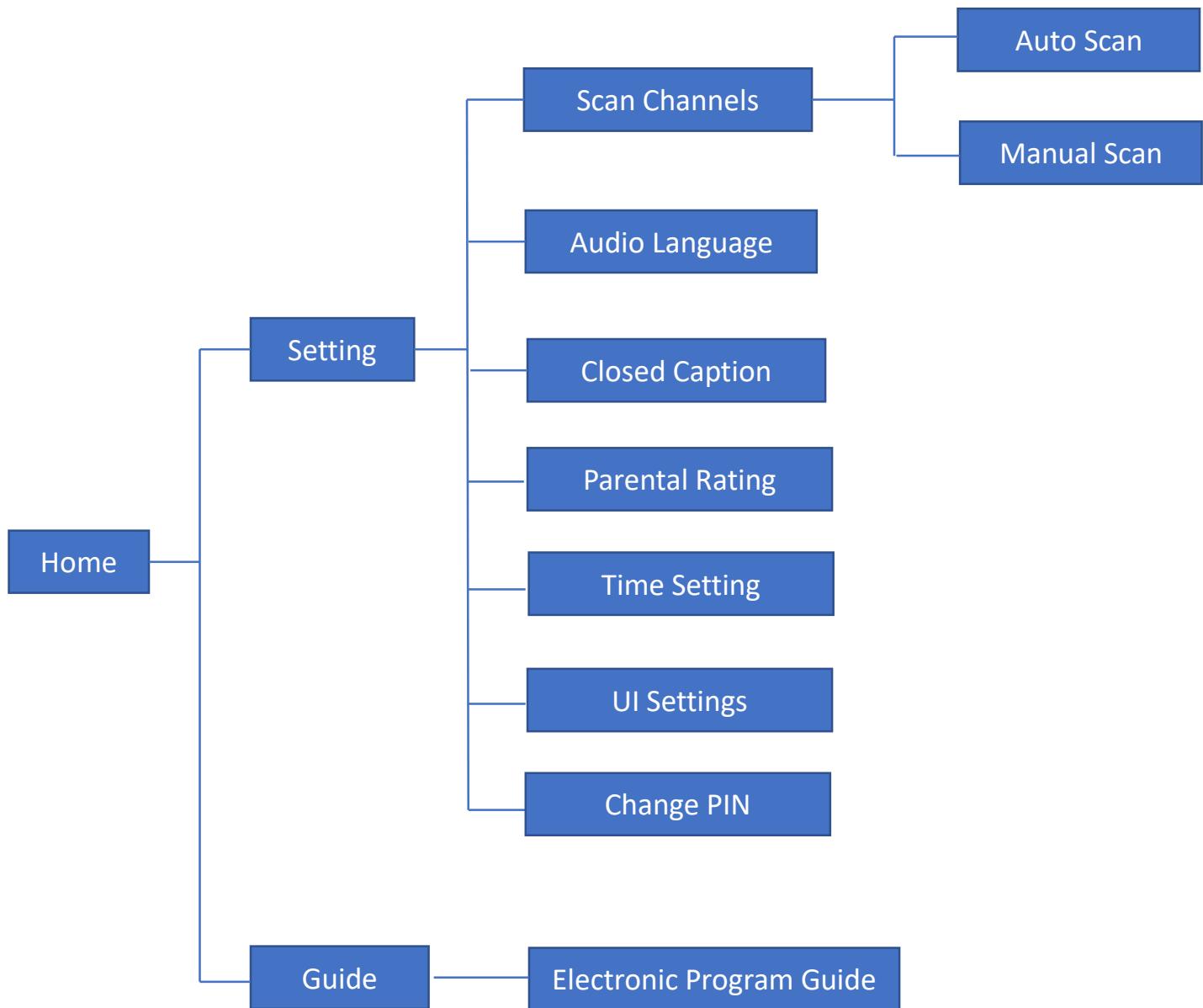


Press the **SETTING** button (Android Setting Key) on the remote control -> Select **Network & Internet** -> Press **OK** on the remote control to confirm.

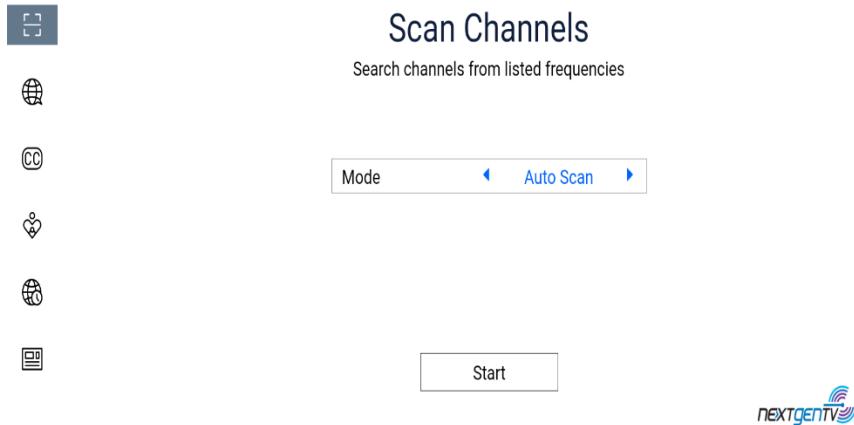
Connect your **Ethernet (RJ45)** cable to the **LAN port** on your Broadband Set-Top-Box -> The system will **automatically update the network connection status**. Refer to the image on the right side.



## 8 Function Overview



## 8.1 Guide to the Setting System

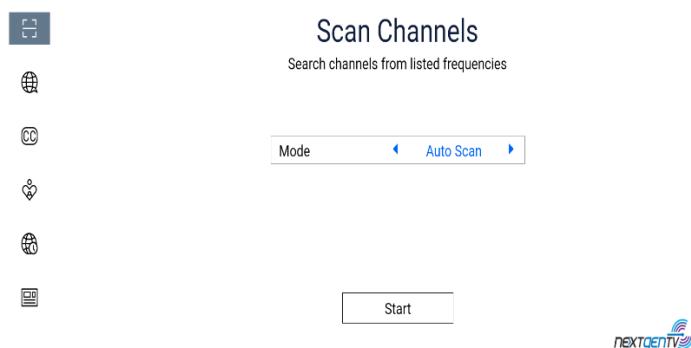


Press **MENU** (App Setting Key) to enter the Setting System.

Refer to the image on the left side.

## 8.2 Other Functions

### 8.2.1 Searching for the Available Channels (Auto Scan)



MENU (App Setting Key) -> Scan

Channels -> Mode: **Auto Scan** -> Press

**Start Scanning**

### 8.2.2 Searching for the Available Channels (Manual Scan)

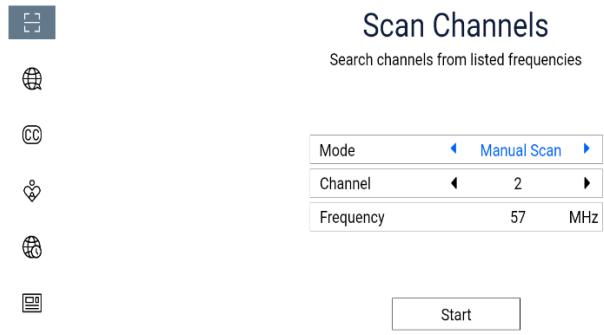
MENU (App Setting Key) ->

Scan Channels ->

Mode: **Manual Scan** ->

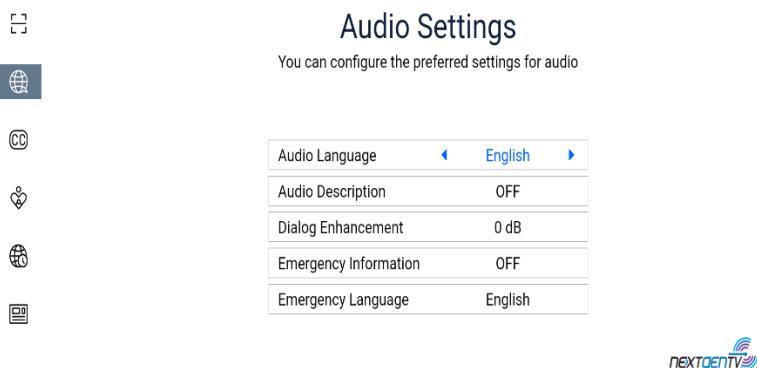
Select Channel Number ->

Press **Start Scanning**



nextgenTV

### 8.2.3 Selecting Your Preferred Language for Audio



**MENU (App Setting Key) ->Audio**

**Language -> Select your prefer language->**

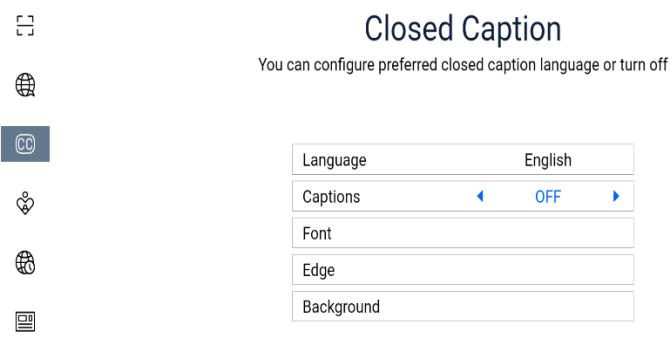
**Press BACK to confirm**

### 8.2.4 Turning Off the Caption

**MENU (App Setting Key) ->**

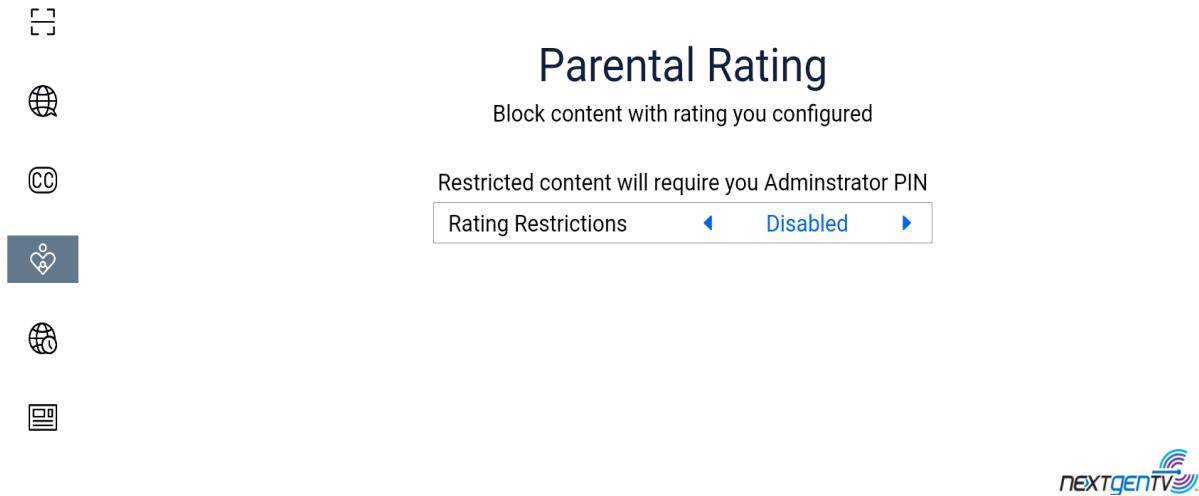
**Closed Captions->**

**Press OK to confirm**



## 8.2.5 Selecting the Parental Rating

MENU (App Setting Key) -> Parental Rating (The **Admin PIN** MUST be **ENTERED** before entering the Parental Rating screen (The default password is: 0000) -> Select the Rating Restriction -> Press **BACK** to confirm



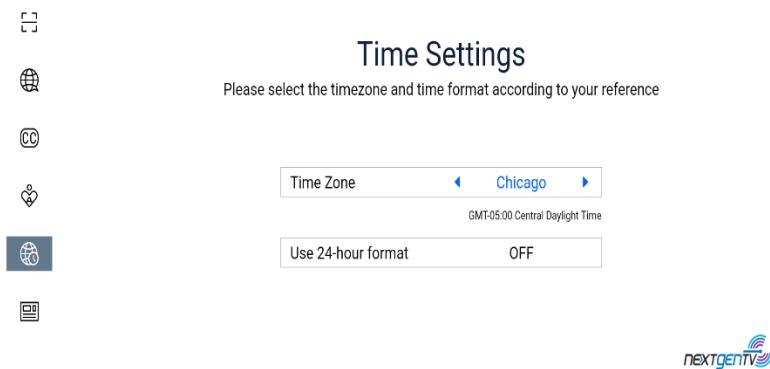
## 8.2.6 Time Setting

MENU (App Setting

Key) ->**Time Setting** ->

Select time zone->

Press **BACK** to confirm



## 8.2.7 Setting the Display Duration

MENU (App Setting Key)

-> Closed Captions ->

Select the display

duration -> Press **OK** to  
confirm



### UI Settings

You can configure the preferred settings for UI

Language	English
Timeout	5 sec



## 8.2.8 Changing the Administrator PIN

**Admin PIN**  
You can change your new Admin PIN



OK



(Before entering the Change PIN screen, the **Admin PIN** MUST be **ENTERED** (the default password is: 0000)).

MENU (App Setting Key) -> Change PIN -> Press **OK** and enter the NEW Administrator PIN -> Press **OK** to confirm.

## 8.2.9 Obtaining the Program Content Introduction

Electronic Program Guide  
Today 3rd Hour  
12/13/2021 08:00 AM - 09:00 AM  
News anchors feature interviews with celebrities and notable guests, inspiring stories of people who do remarkable things, cultural influencers, newsmaker exclu

MON Monday, 12/13/2021		08:00 AM	08:30 AM	09:00 AM	09:30 AM
4-1	WRC 	Today 3rd Hour		Today with Hoda & Jenna	
5-1	WTTG 	Good Day DC		Good Day DC	
7-1	WJLA 				
9-1	WUSA 	Great Day Washington		Let's Make a Deal	
32-1	WHUT 	In Their Own Words		Body Electric	The Journey

Press Guide on the remote control -> Electronic Program Guide -> Use **Cursor Keys (▲▼◀▶)** to select the different program blocks for getting the program content introduction.

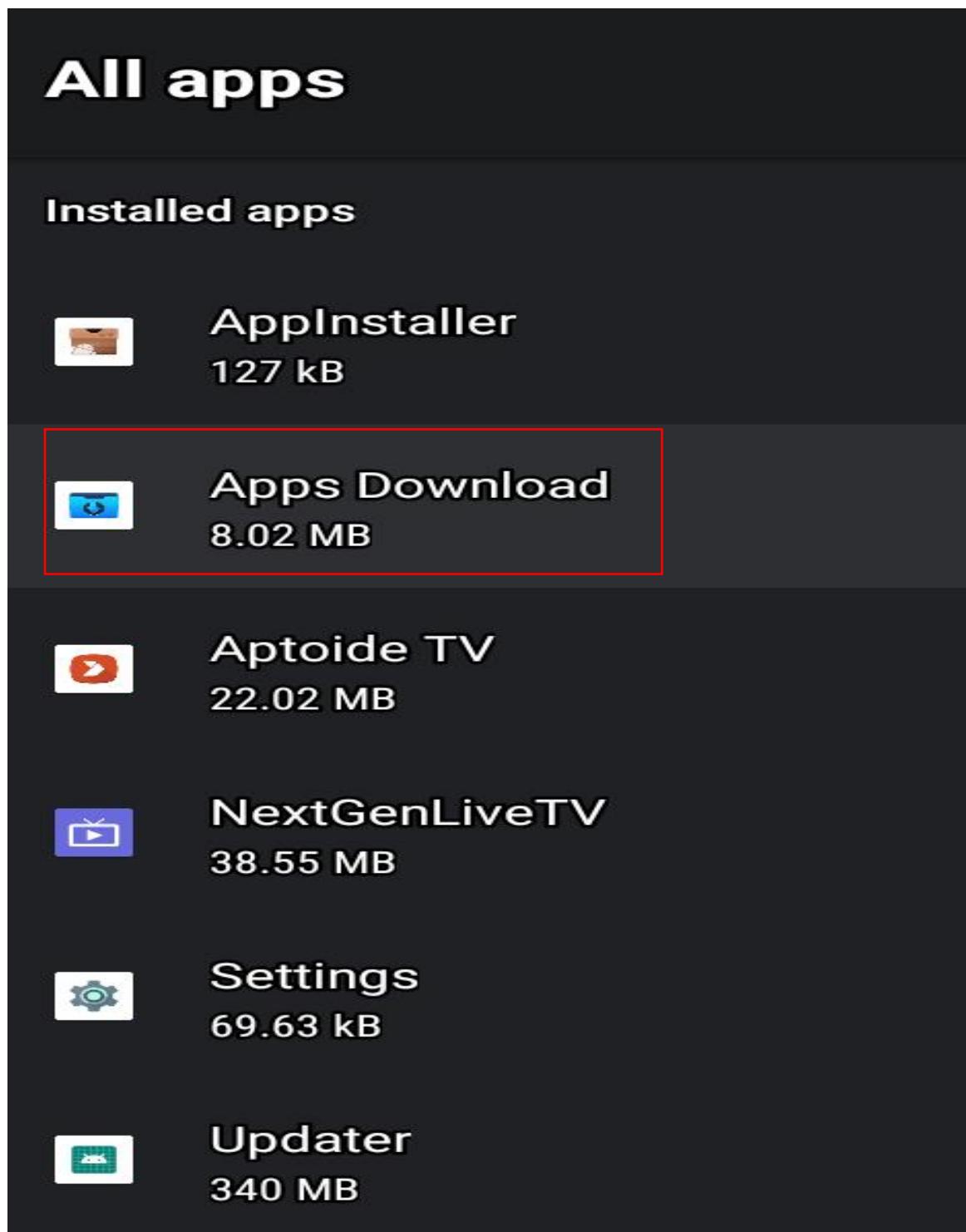
## 9 Software Upgrading via OTA Service

Step 1.

- Press **SETTING** button (Android Setting Key) on the remote control -> Select **Apps** ->

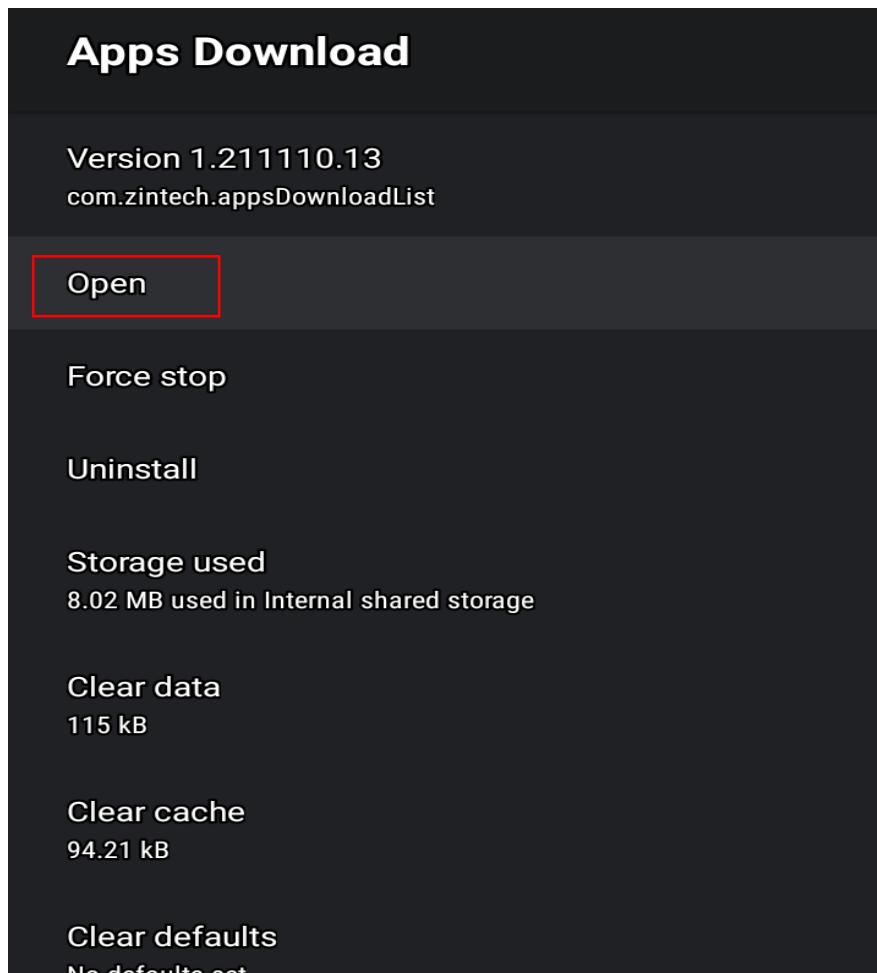
Select **See All apps**

- The following screen will appear -> Select “**Apps Download**” to confirm



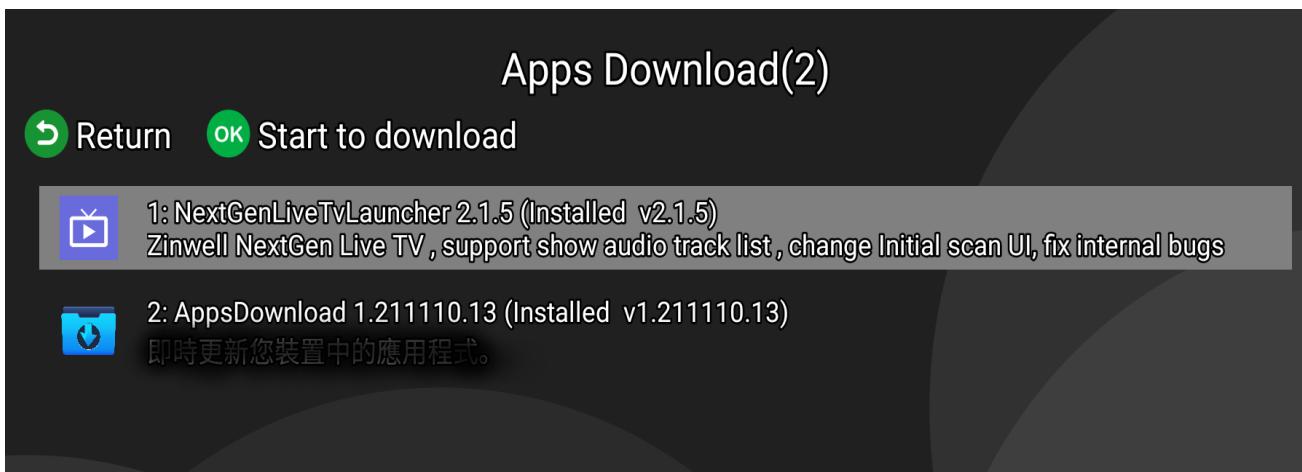
## Step 2.

- Use the remote control to select "**Open**" -> Press **OK** to confirm.



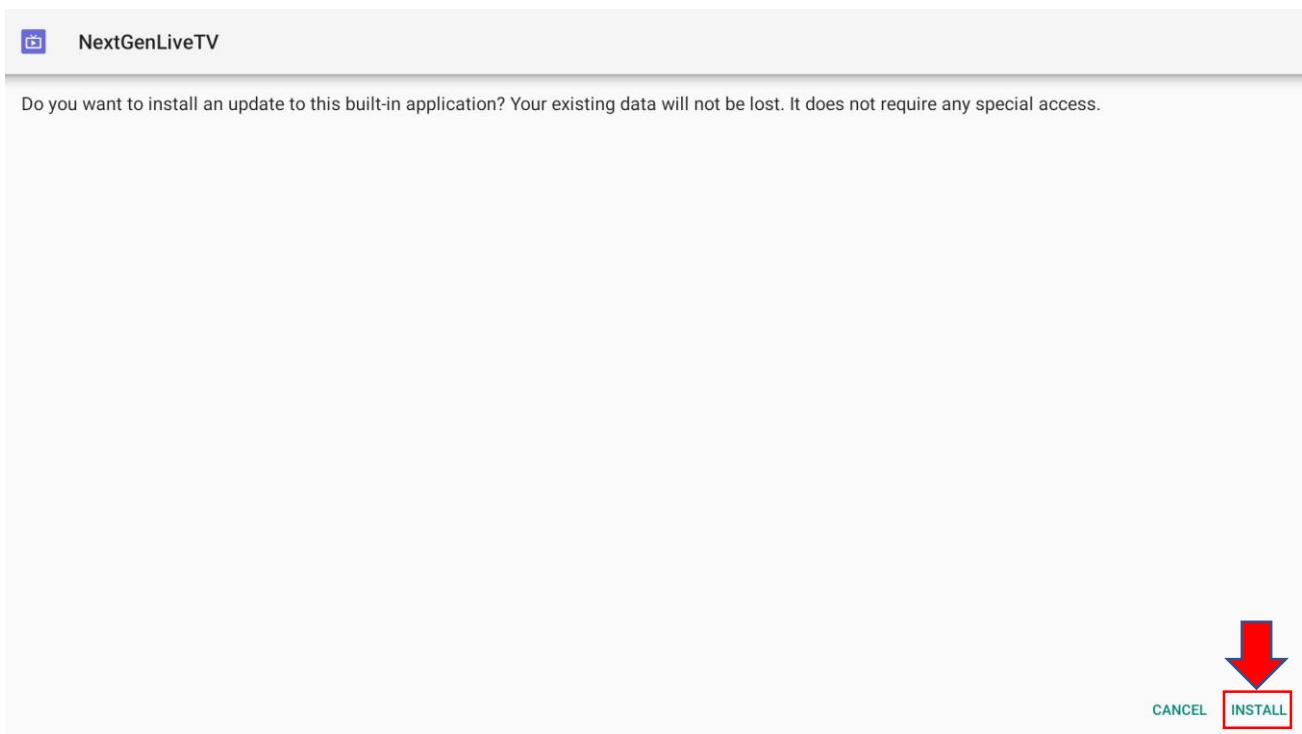
## Step 3.

- Select NextGenLiveTvLauncher 2.1.5 -> press OK to confirm.



#### Step 4.

- The installation screen is as below. Find the "INSTALL" button at the bottom right corner of the screen -> Press OK to install.



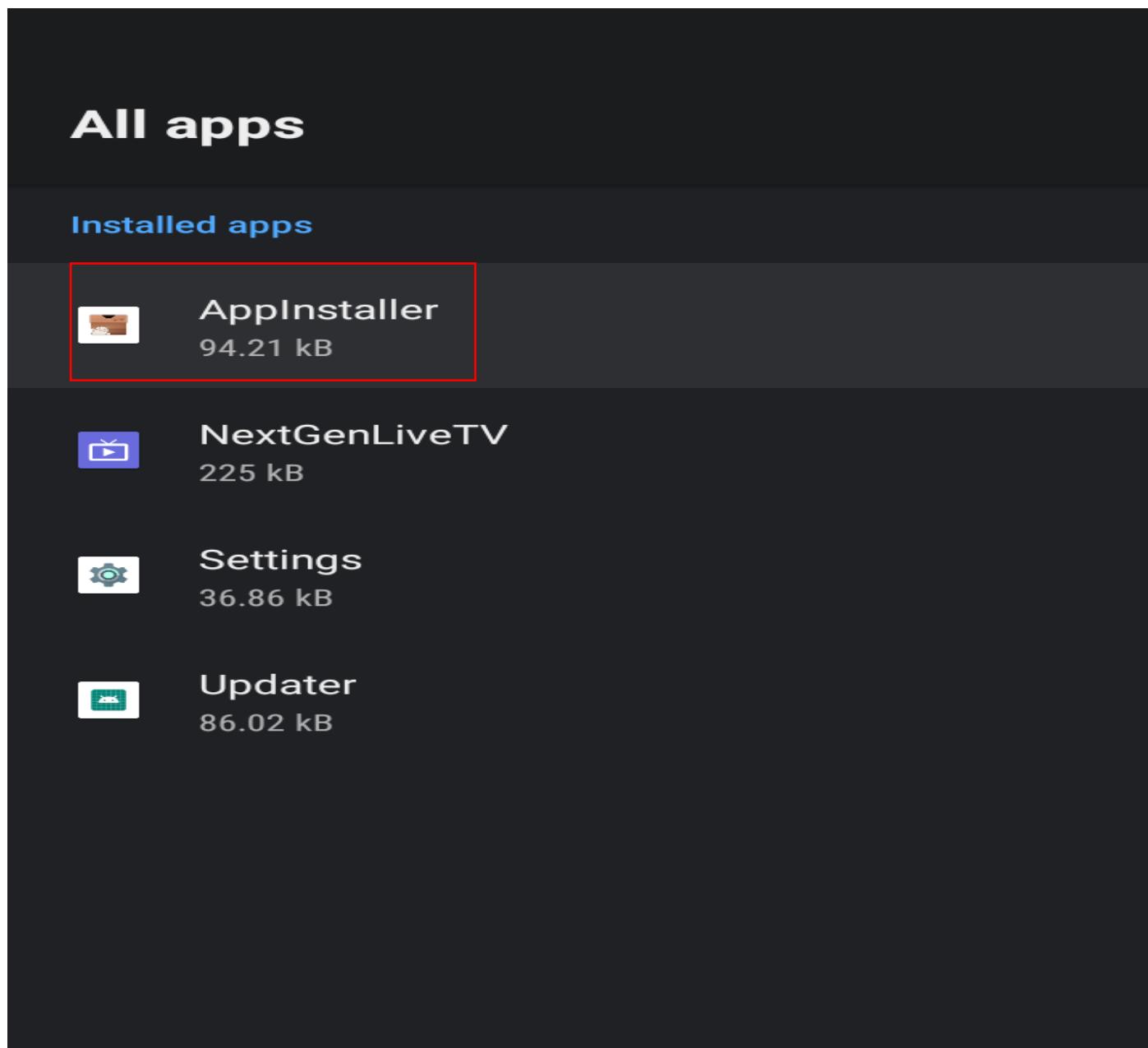
#### Step 5.

- Select “DONE” to complete the APK installation process.

# 10 APK Installation and Software Upgrading via USB Storage Device

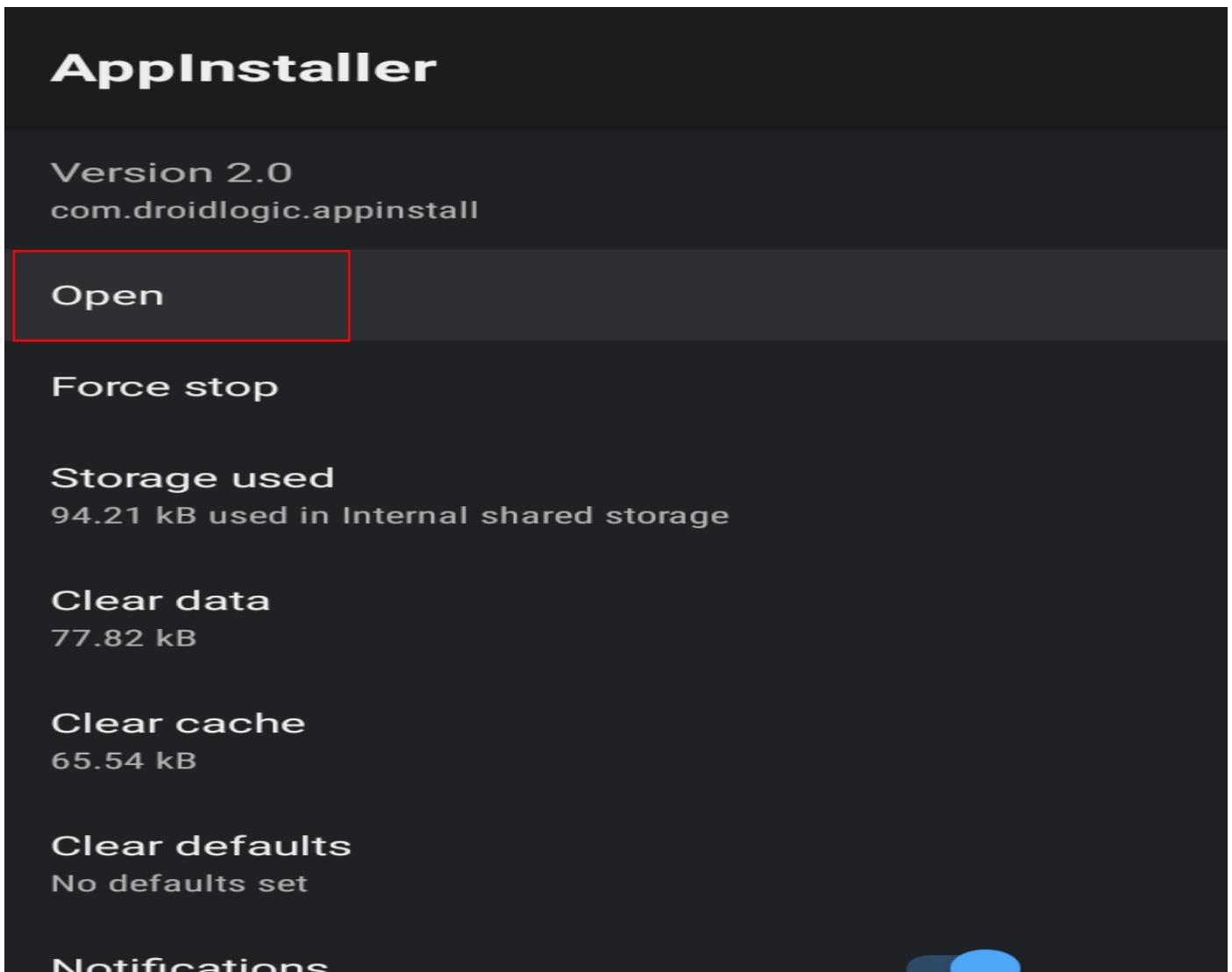
## Step 1.

- Put the APK in an USB storage device
- Insert the USB storage device into the USB port of the Broadband Set-Top-Box
- Press **SETTING** button (Android Setting Key) on the remote control -> Select **Apps** -> Select **See All apps**
- The following screen will appear -> Select “**AppInstaller**” to confirm



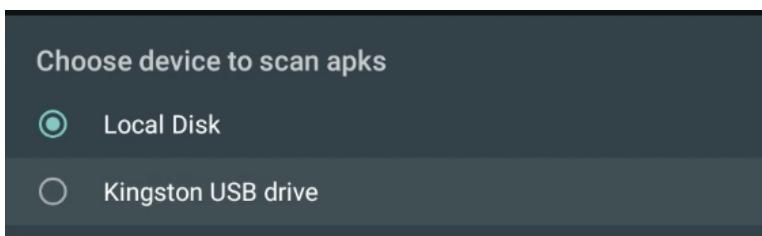
Step 2.

- Use the remote control to select "Open" -> Press **OK** to confirm.



. Step 3.

- Select the **USB storage device** (such as Kingston USB drive) -> press **OK** to confirm.



- App Installer will list all APKs from the USB storage device

## Step 4.

The installation screen is as below. Find the "INSTALL" button at the bottom right corner of the screen -> Press **OK** to install.



## Step 5.

Select “DONE” to complete the APK installation process.

## 11 Trouble Shooting

Device Failure	Possible Cause	Solution
No Picture	Power is not connected	Connect the power and ensure the device has been turned on.
No Picture but Sound OK	Nil or incorrect video cable connections	Ensure cables are connected correctly.
“No Signal” Appear on the Screen	Antenna cable is not connected	Connect the antenna cable and check the connection to the rear of Broadcast Gateway
Picture is breaking up	Signal is weak and unstable	Check the antenna connection
Remote Control is not responding	Batteries are flat	Replace the batteries. * Do not mix old and new batteries in the IR remote control
USB device is not detected	Not powered correctly	Check the power source (if fitted) or reconnect

## 12 Contacting Us

Please kindly reach out us via the **Contact Us** function in our website: <https://www.zinwell.com.tw/us/>