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EZ2Player Guide

For Android Devices

Revision: 05/02/2025



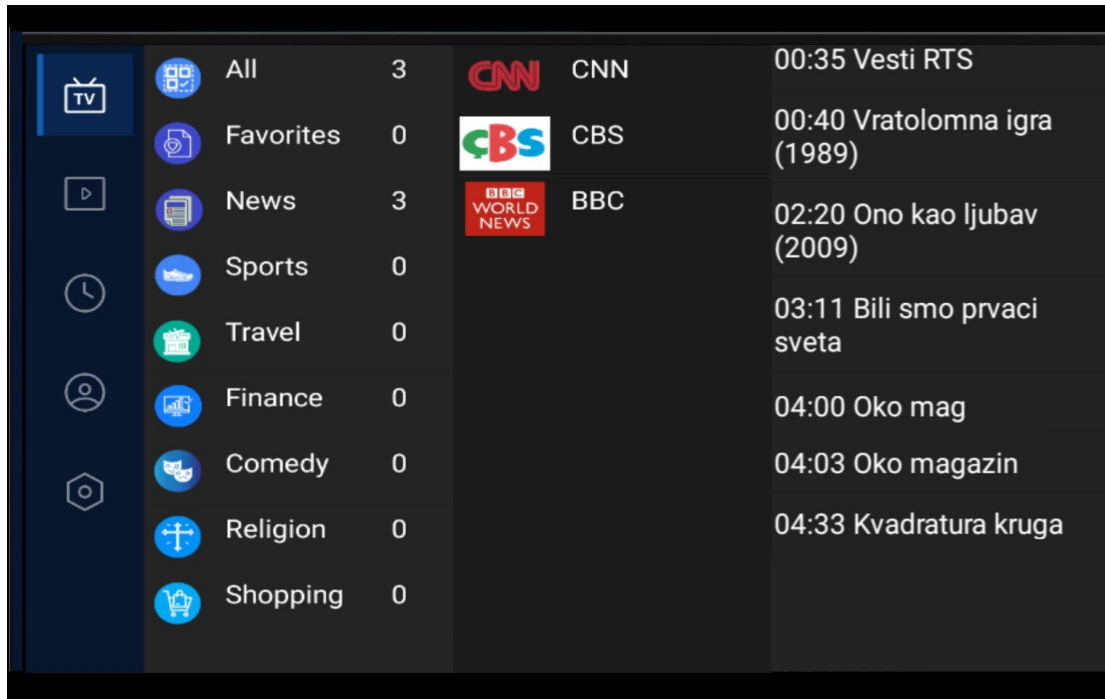
Content

1 Overview.....	3
1.1 Related Information.....	3
2 Panel User Management.....	4
3 Billing QR Code for Service Package.....	6
4 EZ2Player	7
4.1 Player Setting.....	8
4.2 User Setting	9
4.3 User Activation	11
5 Channels.....	12
6 Movies	14
6 Series.....	17
8 Initial setting.....	18
8.1 Ezserver Initial setting.....	18
8.1.1 QRCode setting:.....	18
8.1.2 API Port setting:	18
9 IPTV Mutlicast Encryption	20
9.1 Server setting.....	20
9.2 Encrption setting	20
9.3 Encrption Key.....	20
10 OTT Unicast Encryption	21
10.1 Panel setting	21



1 Overview

EZ2Player is an Android native player that plays channels, movies and series from Ezserver with user authentication.



1.1 Related Information

Ezserver Documents:

https://www.ezhometech.com/document/Ezserver_v7_0_Tutorial.pdf

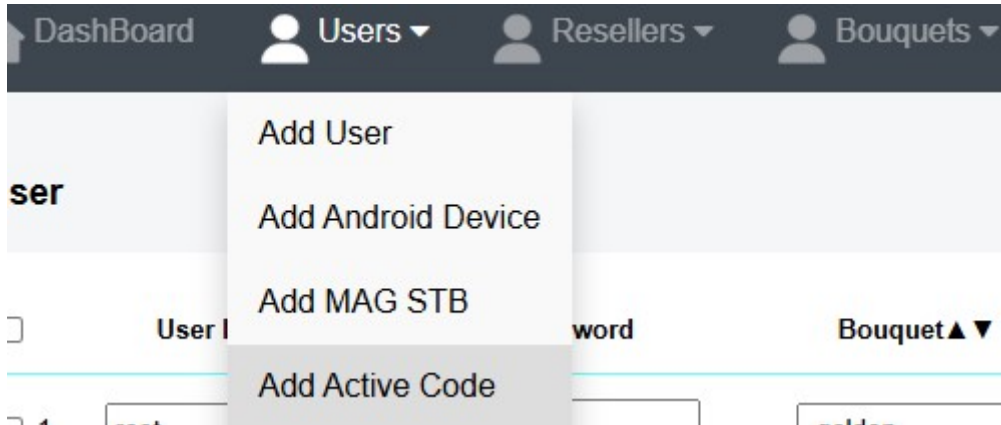
https://www.ezhometech.com/html/ezserver_user_guide.html



2 Panel User Management

There are 2 options for player activation.

Click “Add Active Code” and Input Device Serial number



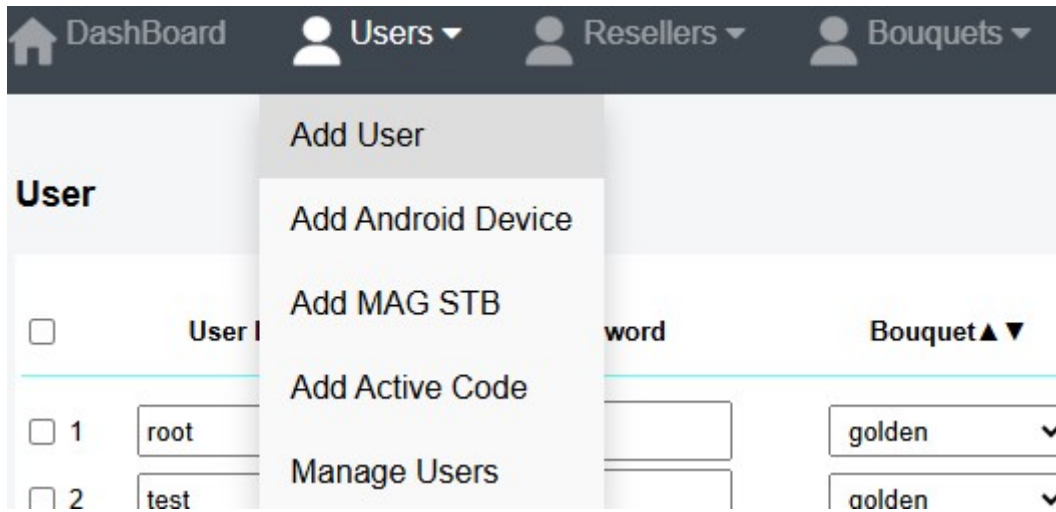
New Active Code

User at	<input type="text" value="18"/>	Active Code	<input type="text" value="4866693631"/>
Password	<input type="text"/>	Rating Password	<input type="text" value="1234"/>
Group	<input type="text" value="basic"/>	Level	<input type="text" value="User"/>
Expired Time	<input type="text" value="1 month"/>	Connection Limit	<input type="text" value="1"/>
IP	<input type="text"/>	Device Type	<input type="text" value="activecode"/>

- ✧ Active Code is auto generated by system random generator.
- ✧ Each active code is limited by one device.



- Click “**Add User**” and Input User name / password



New User

User at	<input type="text" value="18"/>	User Name	<input type="text" value="test"/>
Password	<input type="text" value="1234"/>	Rating Password	<input type="text" value="7402473116"/>
Group	<input type="text" value="basic"/>	Level	<input type="text" value="User"/>
Expired Time	<input type="text" value="1 month"/>	Connection Limit	<input type="text" value="1"/>
IP	<input type="text"/>	MAC ID	<input type="text"/>



3 Billing QR Code for Service Package

Click “**Manage Bouquets**” and Click one Group QRCode for QRCode image upload

Bouquet Name	Channel Category	Movie Category	QRCode	Connections
1 basic	all News Sports Cartoon	all Action Romance Animation	1	1
2 sliver	all News Sports Cartoon	all Action Romance Animation	1	1
3 golden	all News Sports Cartoon	all Action Romance Animation	1	1
4 6 Month	all News Sports Cartoon	all Action Romance Animation	2 1	1

Upload Package QRCode

New / Edit QRCode

QRCode from URL or Local File

HTTP URL:

Local File: **3** No file chosen



4 EZ2Player

It is a streaming player on android mobile / TV / STB devices. That plays channels, movies and series from Ezserver for Internet users.

Features:

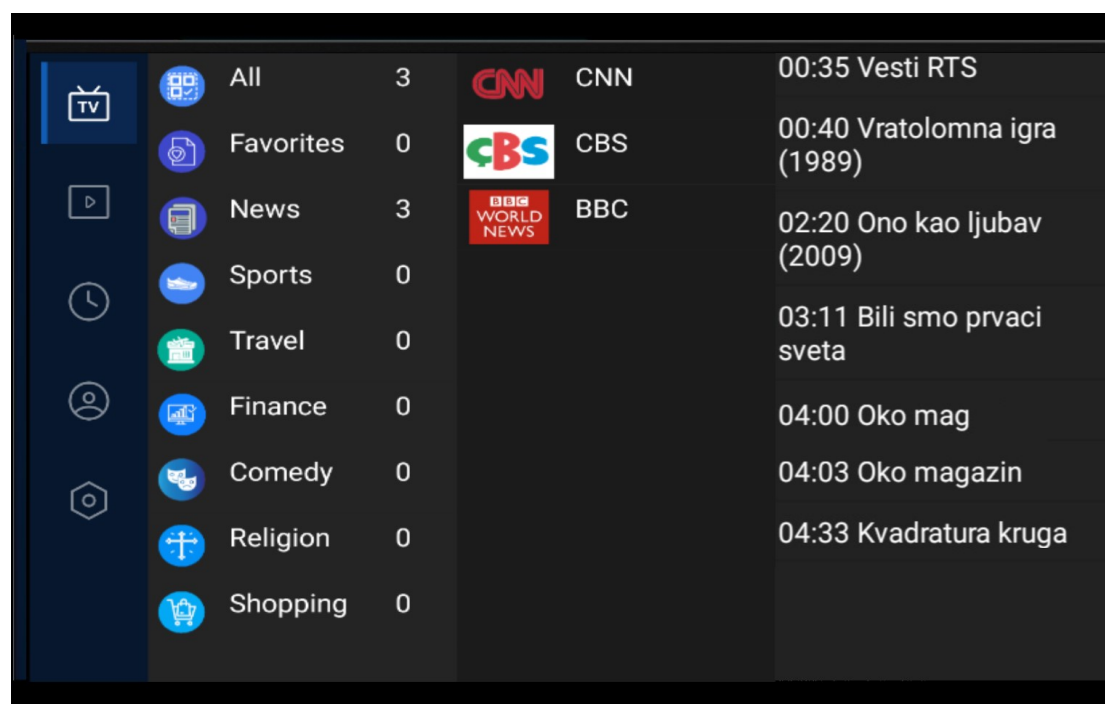
- **TV, Movie and Series**
- **EPG and Catch up TV**
- **Support Multicast AES Encrypted Channels**
- **Support OTT AES Encrypted Channels**
- **Parent Control of adult content**
- **Support TMBD for Movie and Series**
- **Channel Video Format: MPEG2/H264 Transport Stream**
- **Channel Audio Format: MP3/AAC, ADTS Stream**
- **Movie Format: MP4, MKV**

Hardware Requirement:

- **Min. Requirement:** Above 1.0GHz, 1GB RAM, 802.11 a/b/g/n.

Software Requirement:

- **Android 5.0+**





4.1 Player Setting

Content Refresh:

- Download new content from Ezserver.

Auto Start:

- ON: **automatically** starts App after android starts within 30 seconds.

Domain Name:

- Ezserver Domain name or IP

Content	Refresh
Auto Start	ON
Domain Name	192.168.0.9

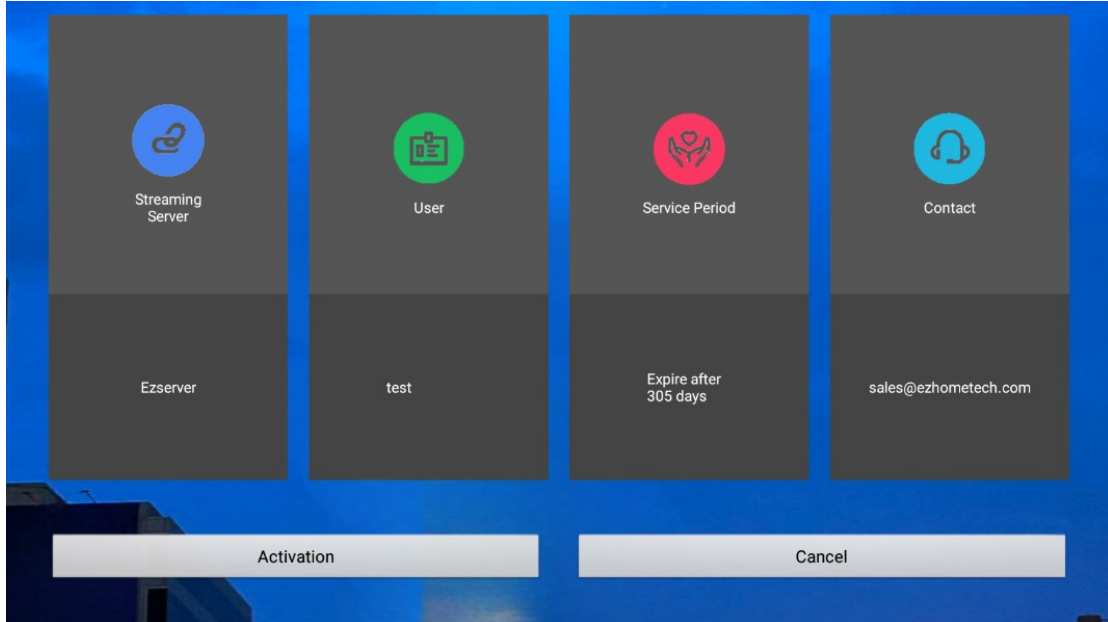
Save Cancel



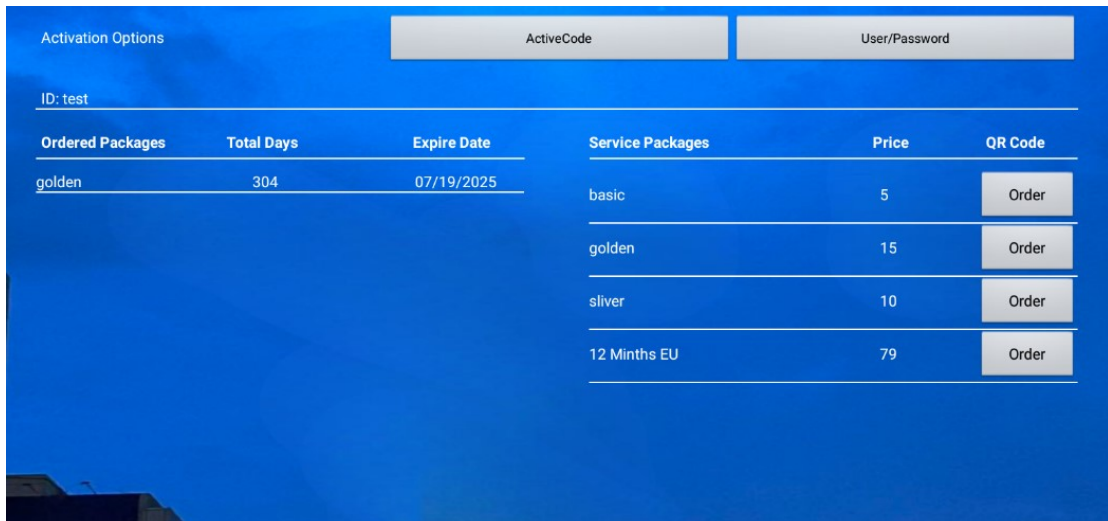
4.2 User Setting

Click Activation Button

Paid version



Click Order button





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Buy service package via QRCode

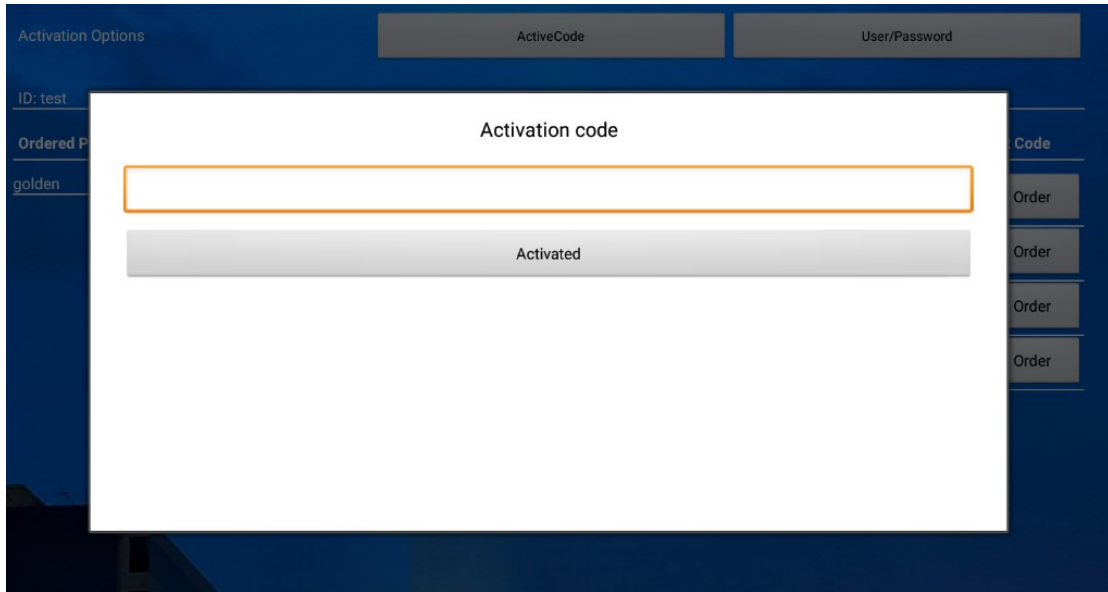
The image shows a QR code on a dark purple background. Below the QR code, the text reads "Selected Package" and "12 Minths EU". To the right of the QR code, there are three numbered steps in red circles: "01 SCAN THE LEFT QR CODE", "02 OPEN THE CONTENT", and "03 COMPLETE TRANSACTION".



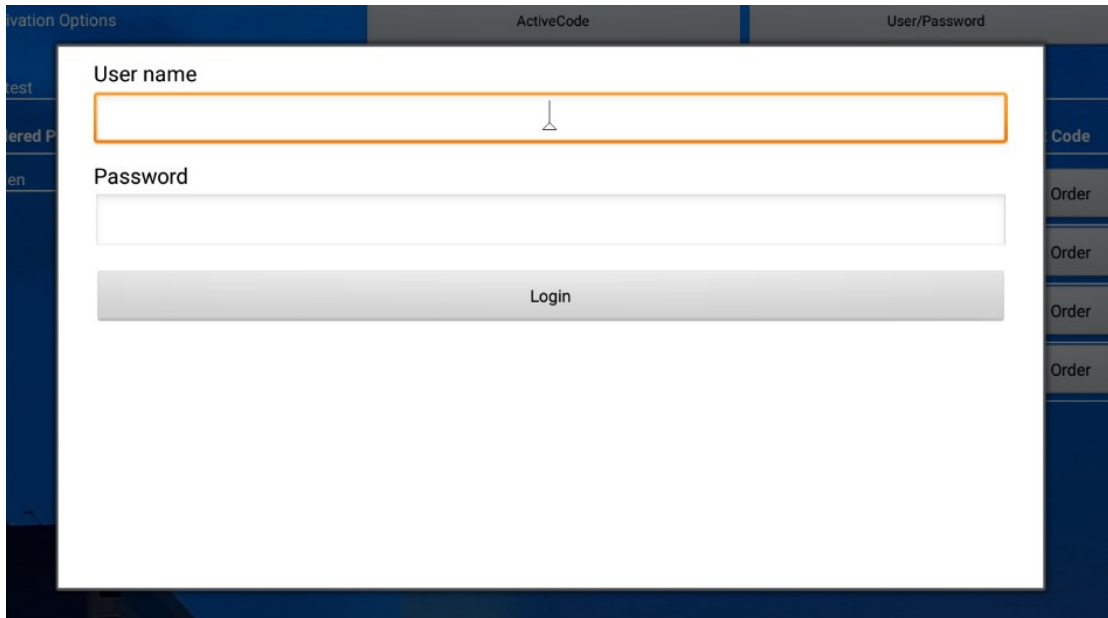
4.3 User Activation

There are 2 options for player activation.

1. Active Code:




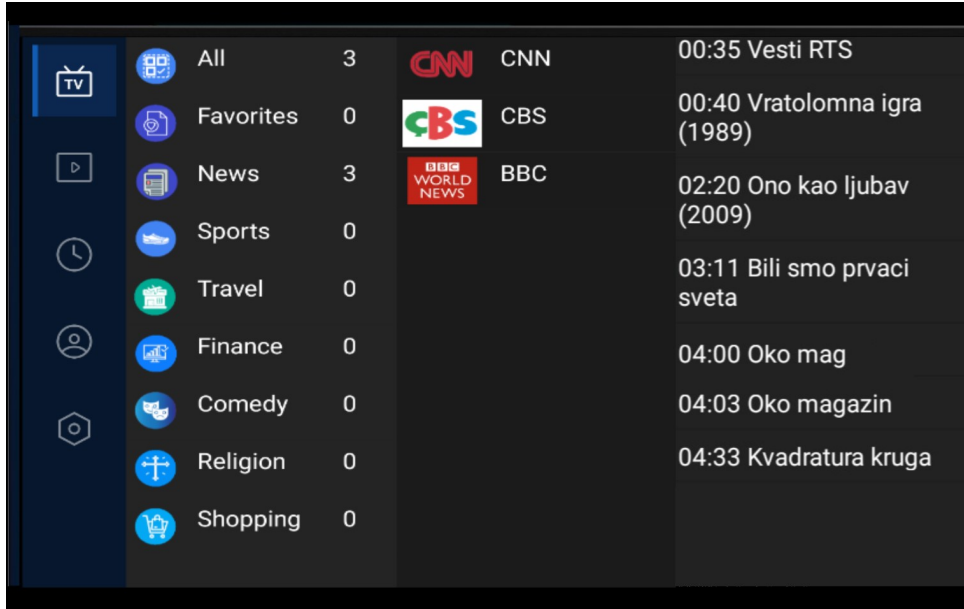
2. User name and password



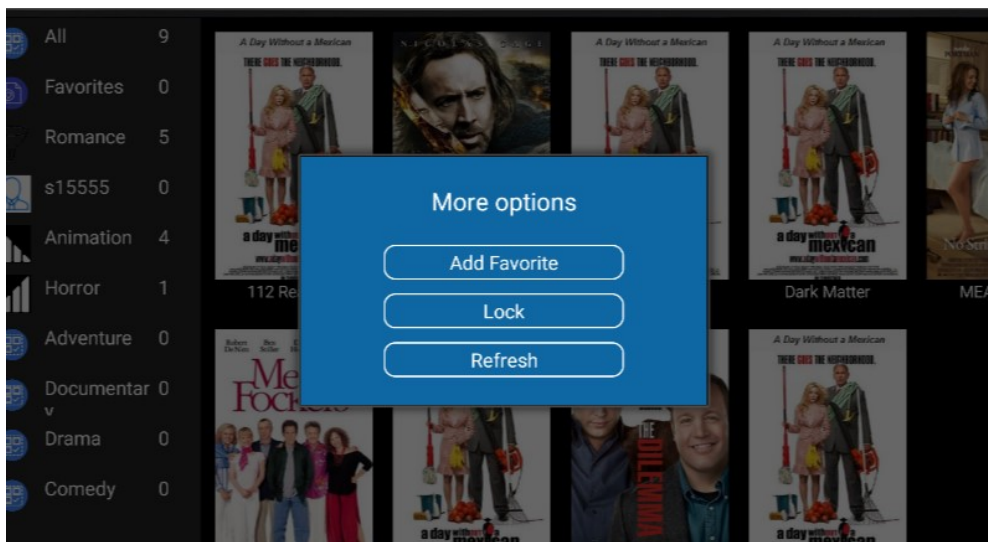


5 Channels

- Select  in main menu to get all channels with epg as below:



- Click the first column (category) to show its channels
- Click the 2nd column (channel) to show its EPG
- Double click the 2nd column (channel) to play the channel
- Hold the OK button or press Touch to open the More options dialog for Favorite and content control features






- Click the 3rd column [EPG with *] option of one program name is for Catch up TV that was recorded by its EPG time

Meteo Media HD	[*] 05:00 Prévisions météorologiques
A N	[*] 06:00 Prévisions météorologiques
Cpac	[*] 07:00 Prévisions météorologiques
LCN	[*] 08:00 Prévisions météorologiques
RDI	[*] 09:00 Prévisions météorologiques
TV5	[*] 10:00 Prévisions météorologiques
SMTP1	[*] 11:00 Prévisions météorologiques
ICI Artv	[*] 12:00 Prévisions météorologiques
Unis TV	[*] 13:00 Prévisions météorologiques
Tele Quebec	[*] 14:00 Prévisions météorologiques



6 Movies

- Select  in main menu to get all movies with categories as below:



Movie TMDb information

Twisters ★★★★★★☆☆☆☆

Director: Lee Isaac Chung
Info: 46min | Action, Adventure, Thriller | 2024-07-10

Cast: Daisy Edgar Jones, Glen Powell, Anthony Ramos, Brandon Peet, Maura Tierney, Harry Hadden-Patten

Story: As storm season intensifies, the paths of former storm chaser Kate Carter and reckless social-media superstar Tyler Owens collide when terrifying phenomena never seen before are unleashed. The pair and their competing teams find themselves squarely in the paths of multiple storm systems converging over central Oklahoma in the fight of their lives.

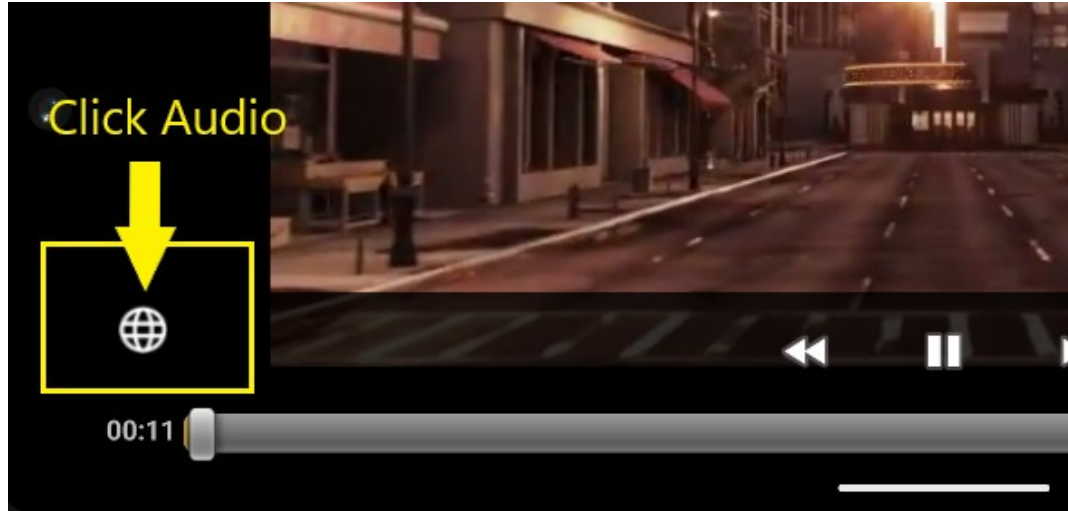
You may also like PLAY ▶ FAV ⚡

Gray Lady Down, Beyond the Poseidon, The Concorde... Ai, Nefarious, Residents of Arcadia, Crack in the World, Hollywoodland, Ghost Rider, Letters

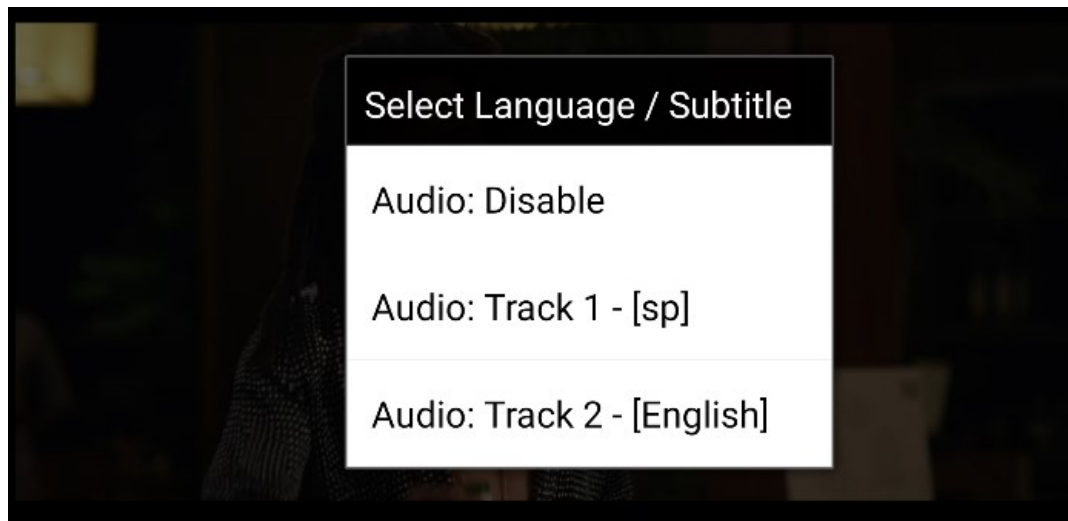


Select Audio and subtitle

- Click OK or Pause button to show earth icon



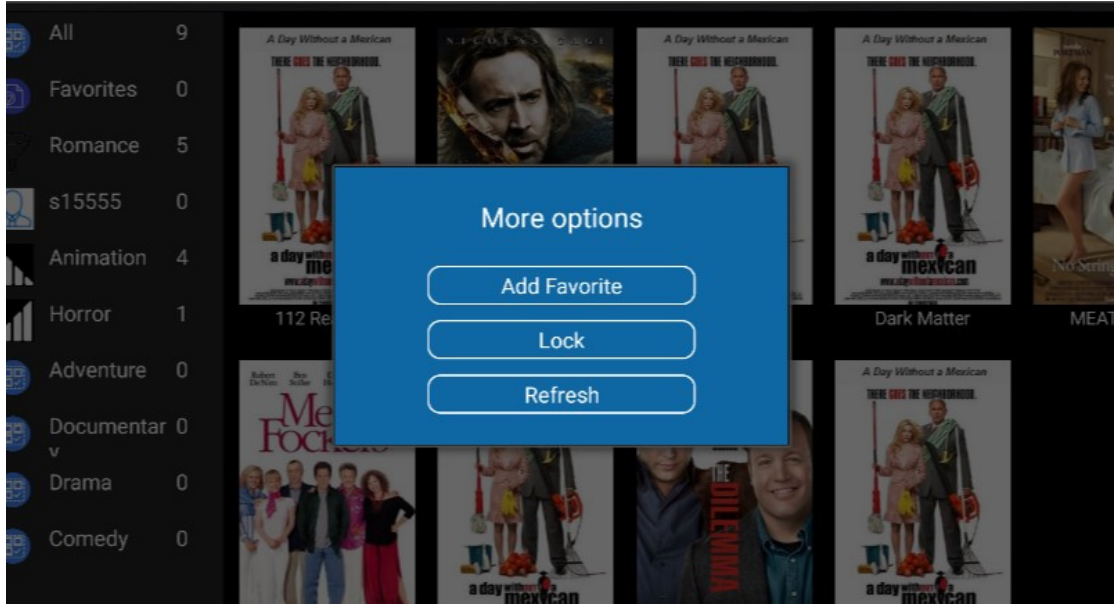
- Click earth icon to show the below menu.






Content Control

- Hold the OK button or press Touch to open the More options dialog for Favorite and content control features



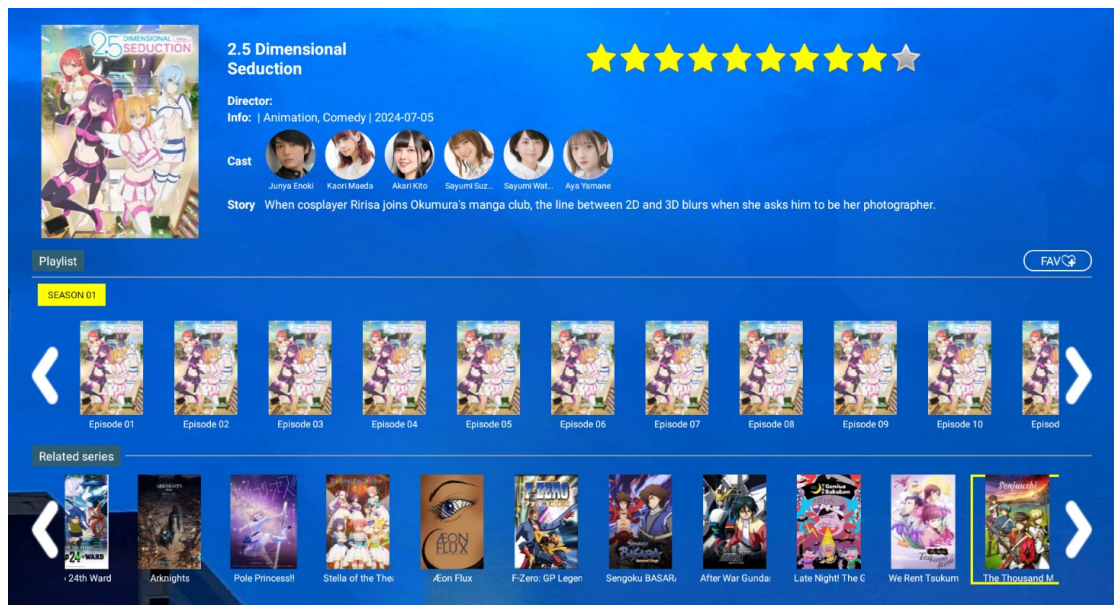


6 Series

- Select  in main menu to get all series with categories as below:



Series TMDB information



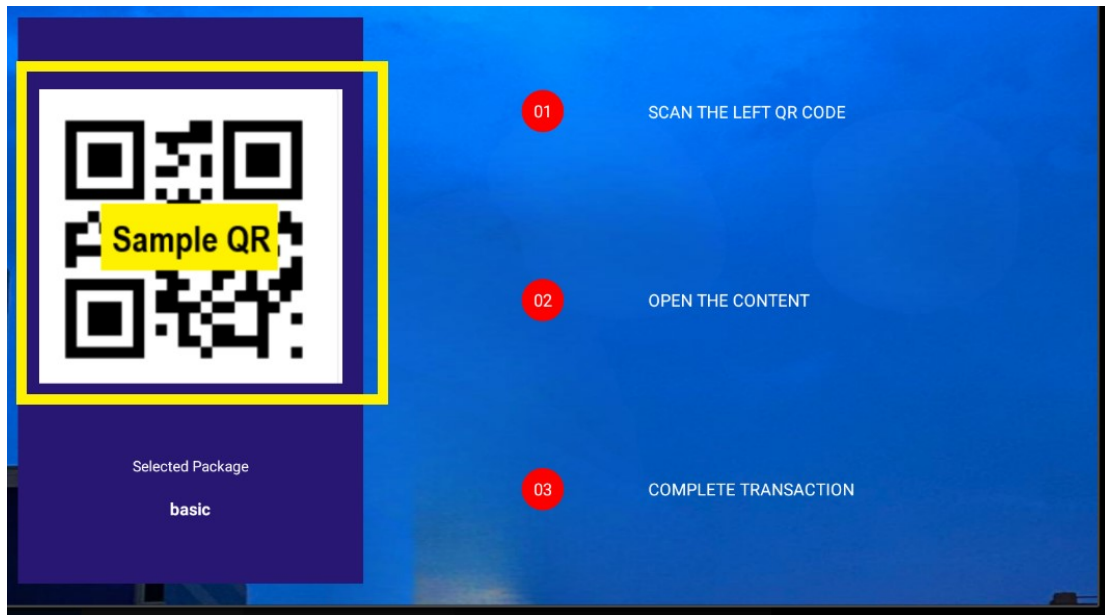


8 Initial setting

8.1 Ezserver Initial setting

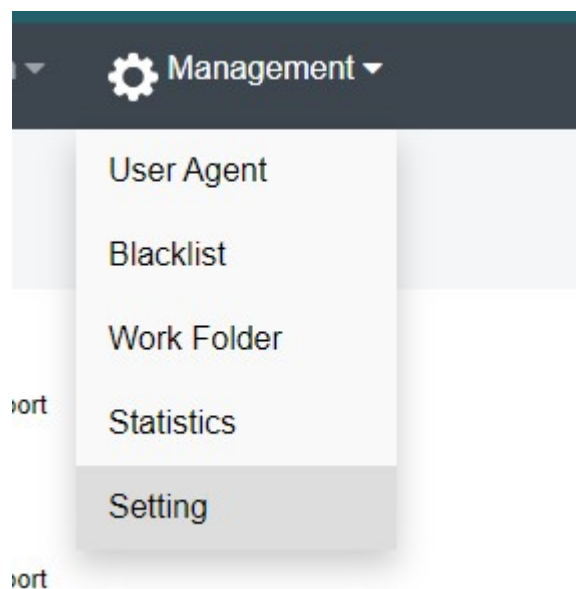
8.1.1 QRCode setting:

If shows below default image in player, Administrator needs to refer Section 4: Billing QR Code for Service Package



8.1.2 API Port setting:

Login Panel and Click Setting menu. Set API Port to 17000 for Player connection.





Setting

HTTPS Setting

Panel port



Streaming port



HTTP Setting

Panel port



Streaming port



API port



API port

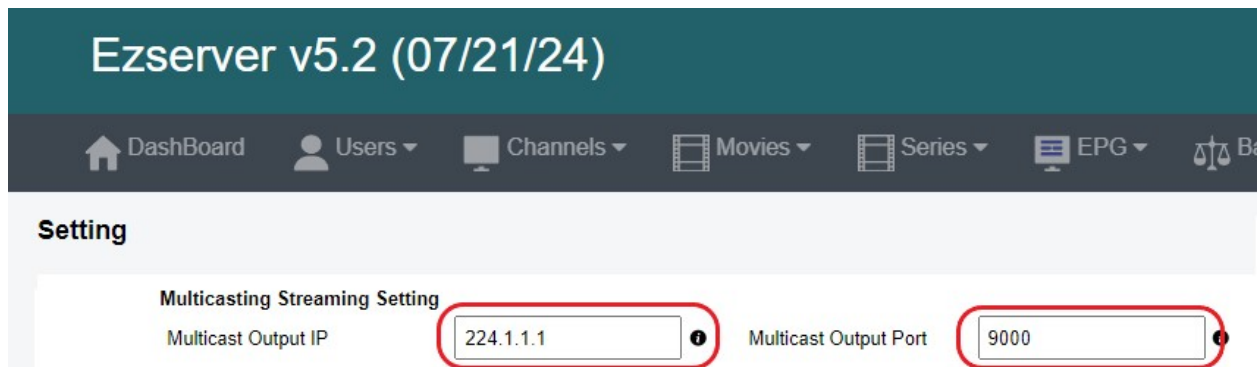




9 IPTV Multicast Encryption

9.1 Server setting

- Set Multicast output IP and Port



- Login ssh console and use tcpdump to check udp streams

```
root@u20:~# tcpdump -i enp0s25 | grep 224.1.1.1
04:43:57.581563 IP u20.55797 > 224.1.1.1.9000: UDP, length 1316
04:43:57.661703 IP u20.55797 > 224.1.1.1.9000: UDP, length 1316
04:43:57.661734 IP u20.55797 > 224.1.1.1.9000: UDP, length 1316
04:43:57.661762 IP u20.55797 > 224.1.1.1.9000: UDP, length 1316
04:43:57.661790 IP u20.55797 > 224.1.1.1.9000: UDP, length 1316
04:43:57.661817 IP u20.55797 > 224.1.1.1.9000: UDP, length 1316
04:43:57.661844 IP u20.55797 > 224.1.1.1.9000: UDP, length 1316
04:43:57.661871 IP u20.55797 > 224.1.1.1.9000: UDP, length 1316
04:43:57.742015 IP u20.55797 > 224.1.1.1.9000: UDP, length 1316
04:43:57.742047 IP u20.55797 > 224.1.1.1.9000: UDP, length 1316
04:43:57.742075 IP u20.55797 > 224.1.1.1.9000: UDP, length 1316
04:43:57.742102 IP u20.55797 > 224.1.1.1.9000: UDP, length 1316
04:43:57.742130 IP u20.55797 > 224.1.1.1.9000: UDP, length 1316
04:43:57.742157 IP u20.55797 > 224.1.1.1.9000: UDP, length 1316
```

9.2 Encryption setting

- Defined at `hls_multicast_aes` of `ezserver_config.txt`
 - `hls_multicast_aes=0` (No encryption)
 - `hls_multicast_aes=1` (low encryption)
 - `hls_multicast_aes =2` (high encryption)
 - restart ezserver

9.3 Encryption Key

- add AES.key into `/home/ezserver_enterprise/` folder
 - any 16-byte key inside



10 OTT Unicast Encryption

10.1 Panel setting

- Enable AES Encryption

TV1

On Demand	<input checked="" type="checkbox"/>	HLS	<input type="checkbox"/>
Channel SID	<input type="text"/>	EPG Channel ID	<input type="text" value="TV1"/>
Buffer Size	<input type="text" value="8000"/>	Bitrate Tolerance	<input type="text" value="0.99"/>
Catch Up Days	<input type="text" value="0"/>	Proxy Mode	<input type="text" value="Disabled"/>
Input Adapter	<input type="text" value="127.0.0.1"/>	AES Encryption	<input checked="" type="checkbox"/>
Blockchain Region	<input type="text"/>	Blockchain Group ID	<input type="text"/>
Sub Categories	<input type="text" value="News"/>	<input type="button" value="Add Item"/>	