



# Ezserver Player

## User Guide

Supports Unicast, Multicast and P2P Streaming.

[www.ezhometech.com](http://www.ezhometech.com)

Updated :12/12/2020

Version : 3.1

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## 1. Introduction

**Ezserver Player** can play automatically channels and movies list from Ezserver via unicast or multicast protocol.

Features:

- TV, Movie and Series
- P2P Live Streaming
- Live Channels and Video on Demand
- Support Unicast for internet and Multicast for LAN or WAN
- EPG and Catch up TV
- Parent Control of adult content.



The screenshot displays the Ezserver Player interface with a list of channels and programs. The interface includes navigation icons on the left (back, star, pause) and a date indicator at the top right (11/06/20 (Fri)). The list is organized into columns for channel names, program titles, and start times.

Channel	Program	Start Time
All	RTS 1	11/06/20 (Fri)
Favorites	RTS 2	00:35 Vesti RTS
24 HORAS INFANTIL	A FAZENDA 12 HD	00:40 Vratolomna igra (1989)
A FAZENDA 12	ae hd	02:20 Ono kao ljubav (2009)
CANAIS ABERTOS	A&E HD 2	03:11 Bili smo prvaci sveta
DOCUMENTARIOS	AMC H265 DUAL AUDIO	03:36 Putopis
ESPORTES	AMC HD	04:03 Oko magazin
FILMES E SERIES	AMC HD2	04:33 Kvadratura kruga
GLOBO	ANIMAL PLANET FHD	05:03 Institucije Srbije u Velikom ratu
HBO	ANIMAL PLANET H265	
INFANTIL	ANIMAL PLANET HD	

## 2. Minimum Requirement

Items	Version
Ezhometech Ezserver	Enterprise 4.5
Android	5.0+
Processor	Above 1.0GHz
Memory	At least 1GB
Network Interface	802.11 a/b/g/n
Disk Space	1GB

## 3. Recommended Requirement

Items	Specification
Ezhometech Ezserver	Enterprise 4.5
Android	10.0+
Processor	Octa-core (2x2.0 GHz Cortex-A75 & 6x1.7 GHz Cortex-A55)
Memory	2GB RAM
Network Interface	802.11 b/g/n
Disk Space	1GB

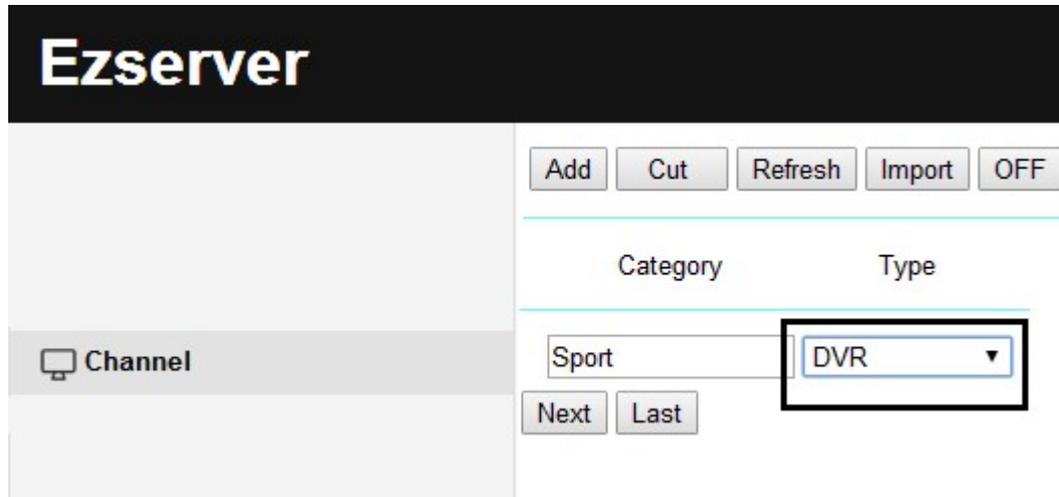
## 4. Software Specification

<b>General Function</b>
<ul style="list-style-type: none"><li>• HTTP Streaming Protocol</li></ul>
<ul style="list-style-type: none"><li>• MAC Address protection</li></ul>
<ul style="list-style-type: none"><li>• Support Smart TV, IP STB, Tablet PC, Mobile Phone</li></ul>
<ul style="list-style-type: none"><li>• Support Touch Screen Menu</li></ul>
<ul style="list-style-type: none"><li>• Support Remote Controller</li></ul>
<ul style="list-style-type: none"><li>• Support Video Server: EZserver</li></ul>
<ul style="list-style-type: none"><li>• Automatic App Update</li></ul>
<ul style="list-style-type: none"><li>• Automatic Start</li></ul>
<b>IPTV/OTT</b>
<ul style="list-style-type: none"><li>• Video Streaming From Ezserver</li></ul>
<ul style="list-style-type: none"><li>• Channel Selection</li></ul>
<ul style="list-style-type: none"><li>• P2P Live Streaming</li></ul>
<ul style="list-style-type: none"><li>• Video Format: MPEG2/H264 Transport Stream, Adobe FLV</li></ul>
<ul style="list-style-type: none"><li>• My Channels</li></ul>
<ul style="list-style-type: none"><li>• My Favorite</li></ul>
<ul style="list-style-type: none"><li>• Time expired checking</li></ul>
<ul style="list-style-type: none"><li>• Automatic Channel Update</li></ul>
<ul style="list-style-type: none"><li>• EPG</li></ul>
<ul style="list-style-type: none"><li>• Catch up TV</li></ul>
<ul style="list-style-type: none"><li>• Parent Control</li></ul>
<b>Video On Demand</b>
<ul style="list-style-type: none"><li>• Video Format : MP4, Adobe FLV</li></ul>
<ul style="list-style-type: none"><li>• Playback : Pause, Play, Resume, Forward/Backward Seek</li></ul>
<ul style="list-style-type: none"><li>• Menu Bar for Movie Category</li></ul>
<ul style="list-style-type: none"><li>• Automatic and Real-Time Movie Category Update</li></ul>
<ul style="list-style-type: none"><li>• My Movies</li></ul>
<ul style="list-style-type: none"><li>• Easy-to-Use Playback Menu</li></ul>
<ul style="list-style-type: none"><li>• Parent Control</li></ul>
<b>Series</b>
<ul style="list-style-type: none"><li>• Seasons, episodes</li></ul>
<b>User Setting</b>
<ul style="list-style-type: none"><li>• User Name and Password</li></ul>
<ul style="list-style-type: none"><li>• Expired date</li></ul>

Domain Name Setting
<ul style="list-style-type: none"><li>• Support Domain name and IP</li></ul>
<ul style="list-style-type: none"><li>• Port</li></ul>
<ul style="list-style-type: none"><li>• Test Connection</li></ul>
External Player Setting
<ul style="list-style-type: none"><li>• exoplayer</li></ul>
<ul style="list-style-type: none"><li>• vlc</li></ul>

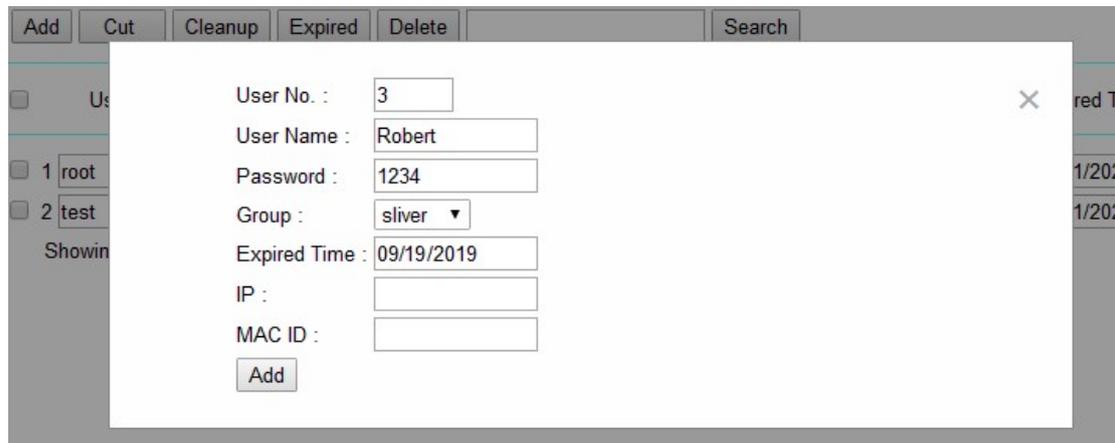
### 5. Create Timeshift Channel

- Login IPTV panel
- Click Channel button and set Type to **DVR**, then click Save button.



### 6. Add New User

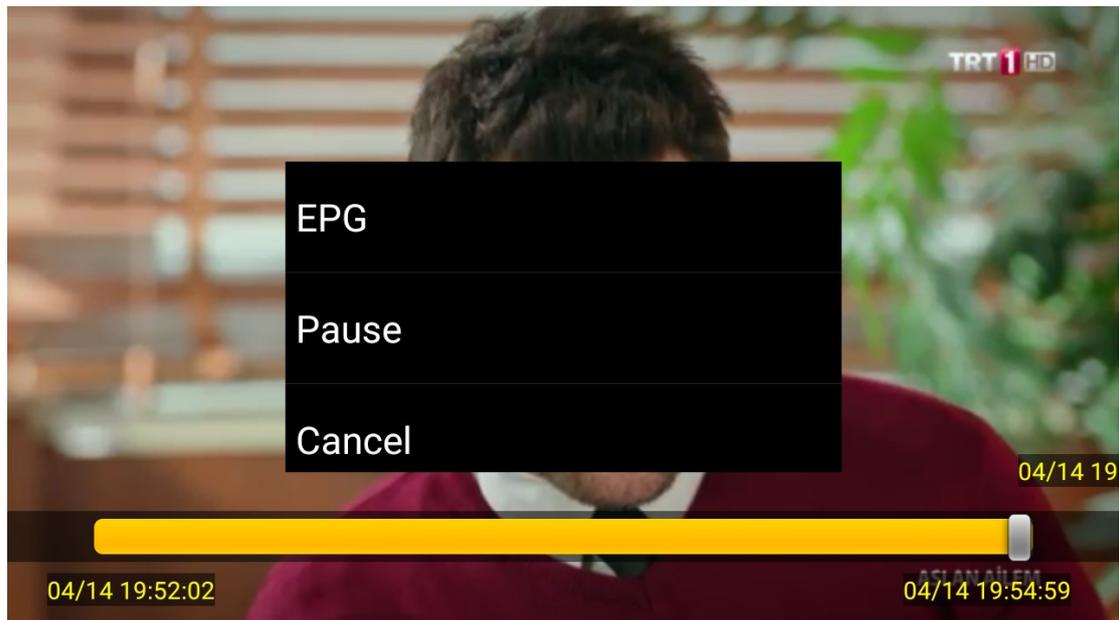
- Login IPTV panel
- Click User button to add new user.



## 7. Timeshift Channels

When you click a **timeshift channel** icon to watch it, you can click any position of the screen to enable OSD menu for **seek bar** and **menu list funtions**.

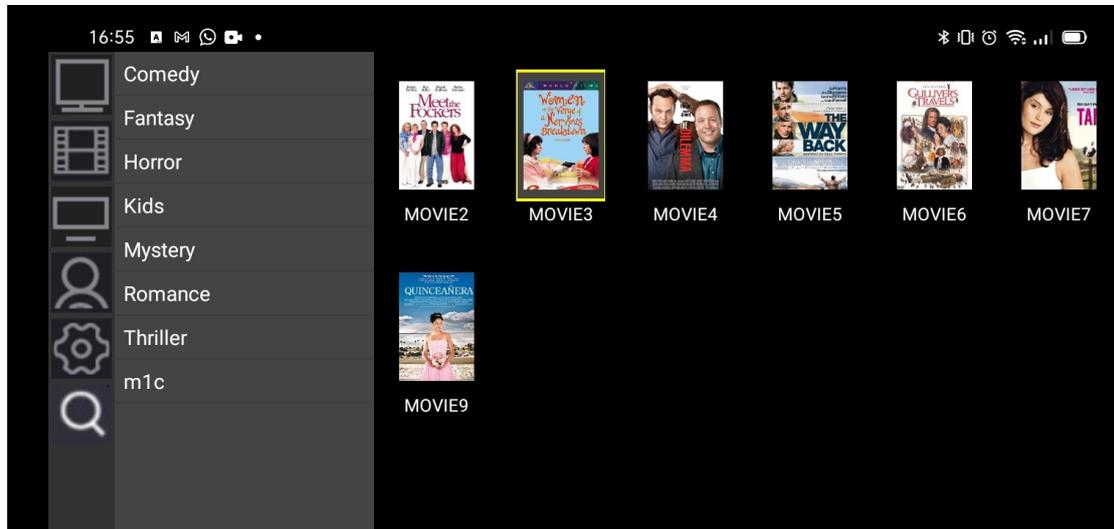
- Click EPG button to show EPG List
- Click Pause / Play button to pause / resume the channel.
- For **seek bar**, you can click drag the **seek button** to forward/backward channel.
- For **channel zapping**, you can silde your finger from left-to-right or right-to-left to zap a channel.
- For **ToLive button**, you can watch the live channel back.



## 8. Video on Demand

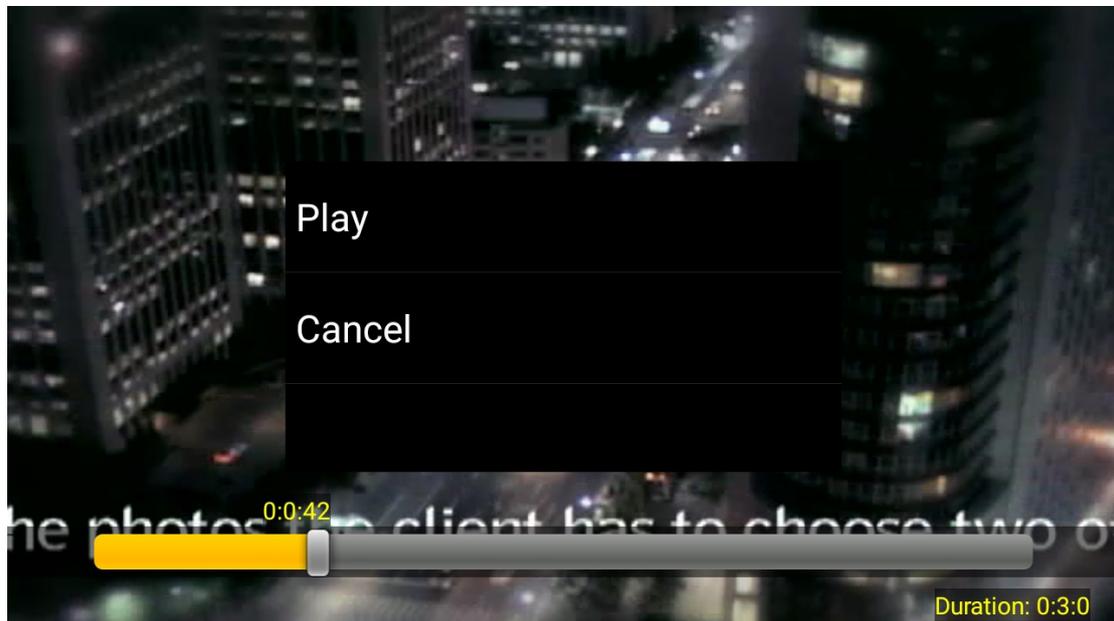


Select  in main menu to get all movies with categories as below:



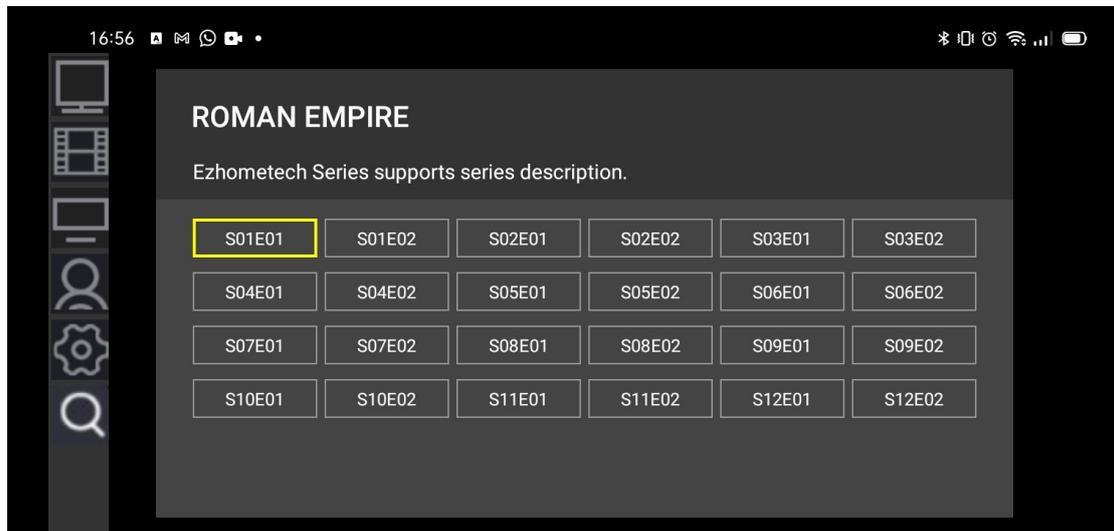
Select one movie icon to watch the movie. You can also click any position of the screen to enable OSD menu for the **seek bar** and **playback buttons**.

- Click Pause / Play button to pause / resume the channel.
- For **seek bar**, you can click drag the **seek button** to forward/backward movie.



## 9. Series

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



## 10. EPG and Catch up TV

- Click Panel Setting to set EPG source by two options as below:
  - Source from XMLTV: Input XMLTV http link in item#15

**Ezserver**

Save

Setting

EPG Setting:

14. MPEG Transport Stream:  --- Value: 0 (disabled), 1 (Real Time Extraction)

15. XMLTV EPG URL:  (per day)

Note: XMLTV More information in TvProfil XMLTV service: <http://tvprofil.net/xmltv/>

- Source from Embedded MPEG TS stream: set "1" in item#14

**Ezserver**

Save

Setting

EPG Setting:

14. MPEG Transport Stream:  --- Value: 0 (disabled), 1 (Real Time Extraction)

15. XMLTV EPG URL:  (per day)

- Restart Ezserver
- Click Panel EPG button to check Channel EPG available as below:

**AI v4.1(08/27/18)**

Network interface: eth0  
Mac address: 001D090FD6D4

EPG

Add Refresh

Channel No.:  2018  05 Query

No.	Start Time YYYY/MM/DD hh:mm:ss	Stop Time YYYY/MM/DD hh:mm:ss	Program Title	Program
1	2018/05/14 00:55:00	2018/05/14 01:55:00	Trezor	02
2	2018/05/14 01:55:00	2018/05/14 02:40:00	TV lica... Kao sav normalz	03
3	2018/05/14 02:40:00	2018/05/14 03:15:00	Srpski sanitet u Velikom r	04
4	2018/05/14 03:15:00	2018/05/14 03:40:00	Srbi u Australiji	06
5	2018/05/14 03:40:00	2018/05/14 04:05:00	Šest lica tanga	07

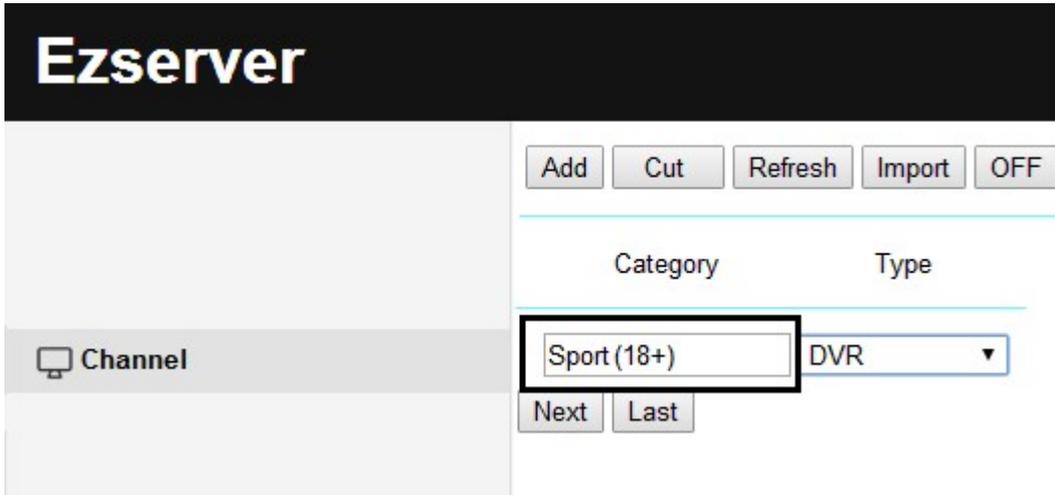
- Click Player EPG button to show the below EPG list of the channel and [\*] option of one program name is for Catch up TV that was recorded by its EPG time.

The screenshot shows a mobile application interface for a TV guide. At the top, the time is 16:55 and there are icons for notifications, a search function, and a refresh button. On the right side, there are icons for Bluetooth, signal strength, and battery level. The main content is a list of channels and their current programs. The 'All' filter is selected and highlighted with a red-to-orange gradient bar. The list includes channels like Favorites, 24 HORAS INFANTIL, A FAZENDA 12, CANAIS ABERTOS, DOCUMENTARIOS, ESPORTES, FILMES E SERIES, GLOBO, HBO, and INFANTIL. Each channel entry is followed by the channel name and the current program name and time.

Channel	Program	Time
All	RTS 1	00:35 Vesti RTS
Favorites	RTS 2	00:40 Vratolomna igra (1989)
24 HORAS INFANTIL	A FAZENDA 12 HD	02:20 Ono kao ljubav (2009)
A FAZENDA 12	ae hd	03:11 Bili smo prvaci sveta
CANAIS ABERTOS	A&E HD 2	03:36 Putopis
DOCUMENTARIOS	AMC H265 DUAL AUDIO	04:03 Oko magazin
ESPORTES	AMC HD	04:33 Kvadratura kruga
FILMES E SERIES	AMC HD2	05:03 Institucije Srbije u Velikom ratu
GLOBO	ANIMAL PLANET FHD	05:48 Verski kalendar
HBO	ANIMAL PLANET H265	
INFANTIL	ANIMAL PLANET HD	

### 11. Parent Control

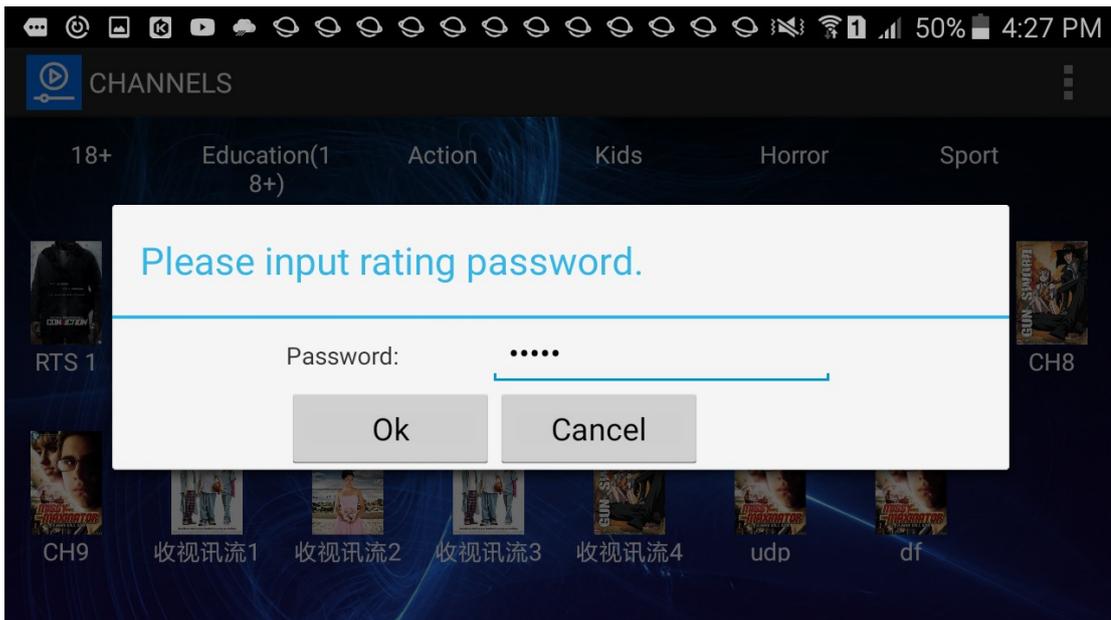
Add "18+" keyword into channel and movie categories of IPTV Panel



Input rating password in user more profile as below:

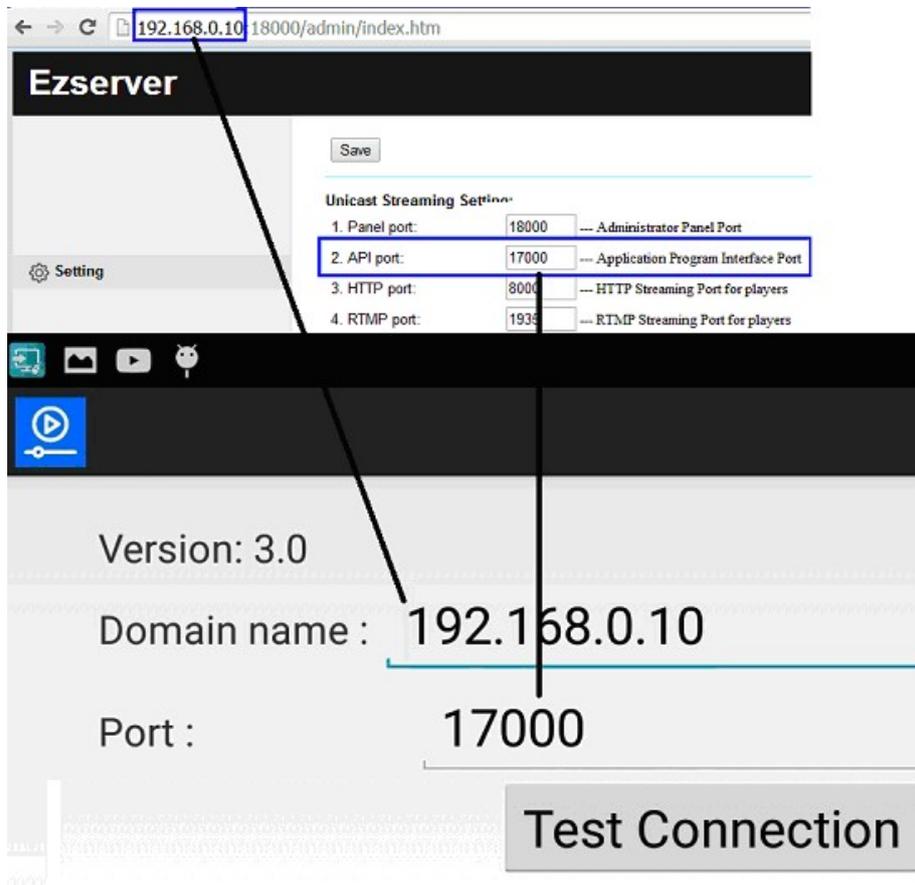
User:	root
IP 2:	<input type="text" value="192.168.0.1"/>
IP 3:	<input type="text" value="192.168.0.2"/>
IP 4:	<input type="text" value="192.168.0.3"/>
IP 5:	<input type="text" value="192.168.0.4"/>
Rating Password:	<input type="text" value="marocco2"/>
Level:	Administrator

When one player starts to play the channels or movies of the category, the player shows password dialog as below:



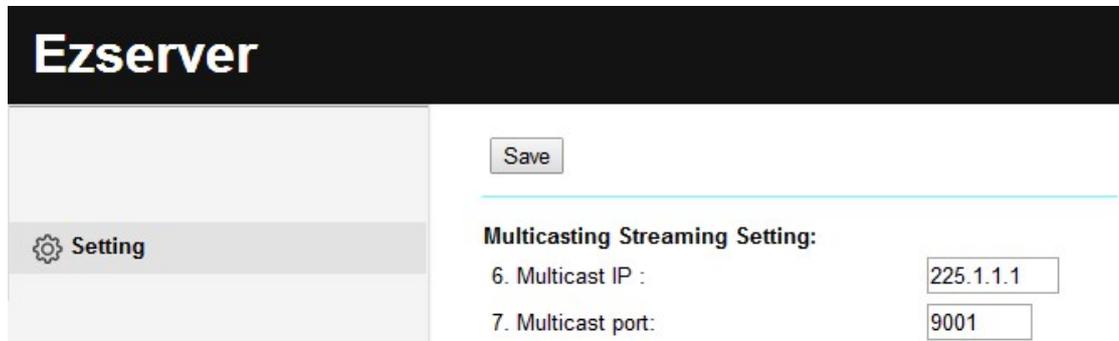
## 12. Unicast Setting

When you start **Ezserver Player** first time, you have to input Ezserver Information into the Setting. The Setting includes User name, Password, Domain name and Port No. as below:



## 13. Multicast Setting

When you enable multicast streaming output in Ezserver Panel as below picture, **Ezserver Player** will automatically play channels by Multicast Output instead of Unicast streaming.



The screenshot shows the Ezserver web interface. At the top, there is a black header with the word "Ezserver" in white. Below the header, on the left, is a sidebar with a "Setting" option, indicated by a gear icon. To the right of the sidebar, there is a "Save" button. Below the "Save" button, there is a section titled "Multicasting Streaming Setting:". Under this section, there are two input fields: "6. Multicast IP :" with the value "225.1.1.1" and "7. Multicast port:" with the value "9001".

## 14. MAC Address Protection

Ezserver Player supports MAC Address mechanism with Ezserver for Video Streaming Protection.

Administrator can add new user withj MAC ID.

The screenshot shows a modal window for adding a user. The fields are as follows:

User No. :	3
User Name :	David
Password :	1234
Group :	basic
Expired Time :	360
IP :	
MAC ID :	B047BF5D982B

An 'Add' button is located at the bottom left of the modal.

When the player connects EZserver, EZserver will check its MAC Address for the legal connection. If the player has correct MAC Address with its user name, EZserver will show its connection in Player panel with its MAC Address.

The screenshot shows the Ezserver main interface with a table of active connections. The table data is as follows:

No.	User	Session	User Agent	Watching CH/Move	Starting Time	IP	MAC ID	ISP	Country	Protocol
2	test	2	VLC/2.2.4 LibVLC/2.2.4	TV1 (1)	2018/07/04 19:55:59 (0:00:11)	192.168.0.10	N/A	N/A	ZZ	HTTP
1	test	1	Dahiki/2.1.0 (Linux; U; Android	TV2 (2)	2018/07/04 19:55:16 (0:00:54)	192.168.0.8	B047BF5D982B	N/A	ZZ	HTTP

The MAC ID 'B047BF5D982B' in the second row is highlighted with a red box.

## 15. Timeshift Recording Buffer Size

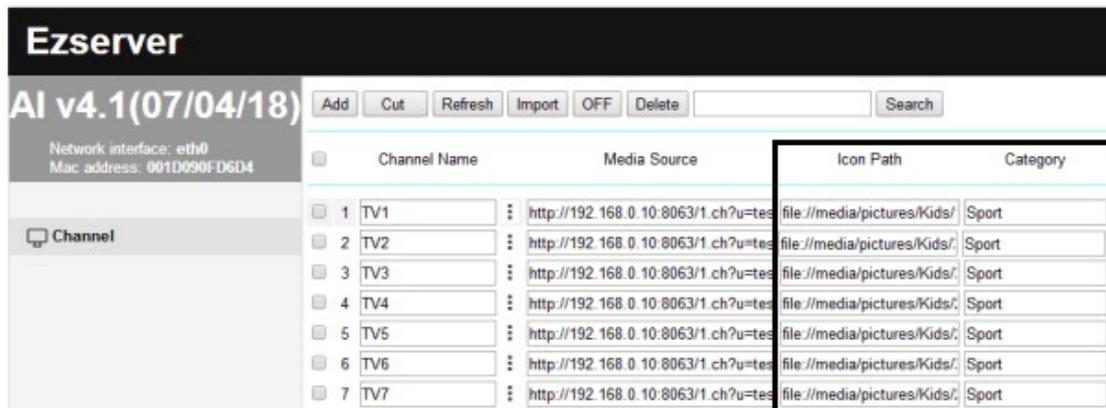
It is the duration for recording live video to do timeshift functions as pause, resume, backward and forward.

The screenshot shows the Ezserver web interface. At the top left, the logo 'Ezserver' is displayed in white on a black background. Below the logo is a navigation menu with a 'Setting' option, indicated by a gear icon. To the right of the menu is a 'Save' button. The main content area is titled 'Channel Setting:' and contains a list of configuration items. Each item has a label, a text input field, and a unit or description. The 'DVR Duration' item is highlighted with a red rectangular border. The input field for 'DVR Duration' contains the value '60' and is followed by the unit 'min.'.

Setting ID	Setting Name	Value	Unit/Description
8	Channel Input Buffer No.:	8000	Panel w
9	Channel Streaming Prebuffer No.:	2000	The va
10	Channel Streaming Bitrate Tolerance:	0	Value: t
11	Channel Reconnection Interval:	7	sec.
12	DVR Duration:	60	min.

## 16. Channel Logo Customization

Channel icons and categories are defined in the icon path and category field of each channel in the IPTV Panel

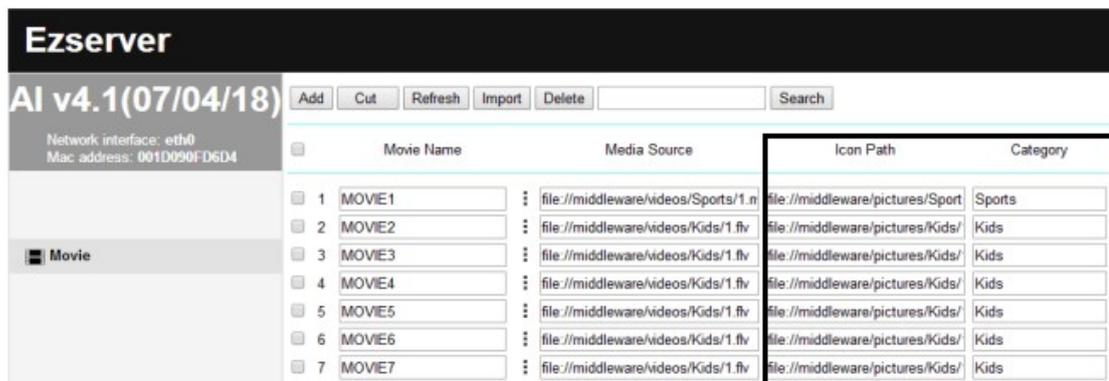


The icon property is as below:

- Size: 242x350 pixels
- Image format: jpg
- File extension name: .jpg

## 17. Movie Logo Customization

Movie icons and categories are defined in the icon path and category field of each movie in the IPTV Panel.



The icon property is as below:

- Size: 242x350 pixels
- Image format: jpg
- File extension name: .jpg