



EZIPTV

User Guide

A Hybrid Player supports
Unicast, Multicast and P2P Streaming.

www.ezhometech.com

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Version : 2.0

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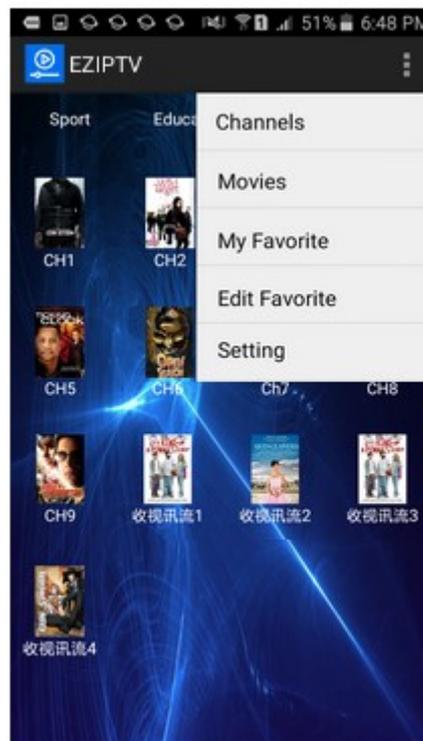
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1. Introduction

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

Features:

- 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.



2. Software Requirement

Items	Version
Ezhometech Ezserver	Enterprise
Android	5.0+

3. Hardware Requirement

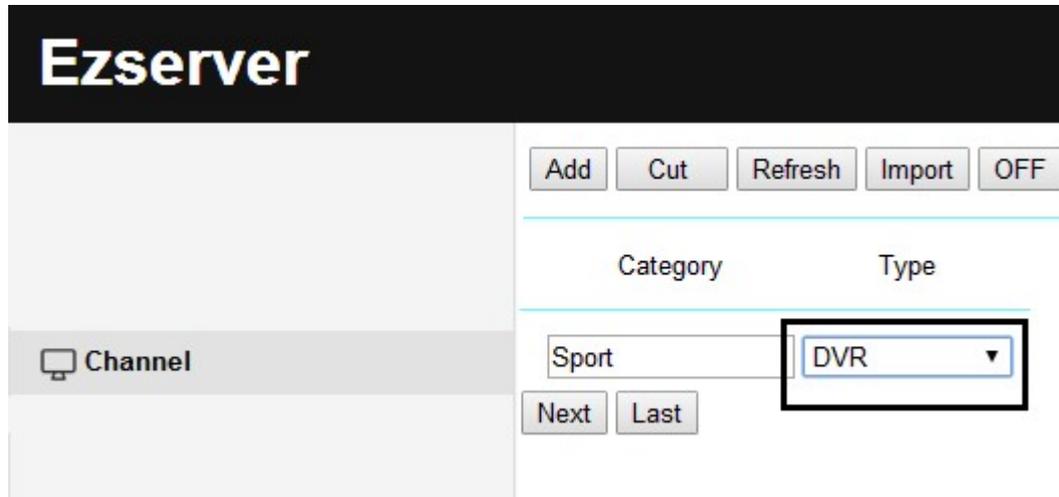
Items	Specification
Processor	Above 1.0GHz
Memory	At least 1GB
Network Interface	802.11 a/b/g/n
Disk Space	1GB

4. Software Specification

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

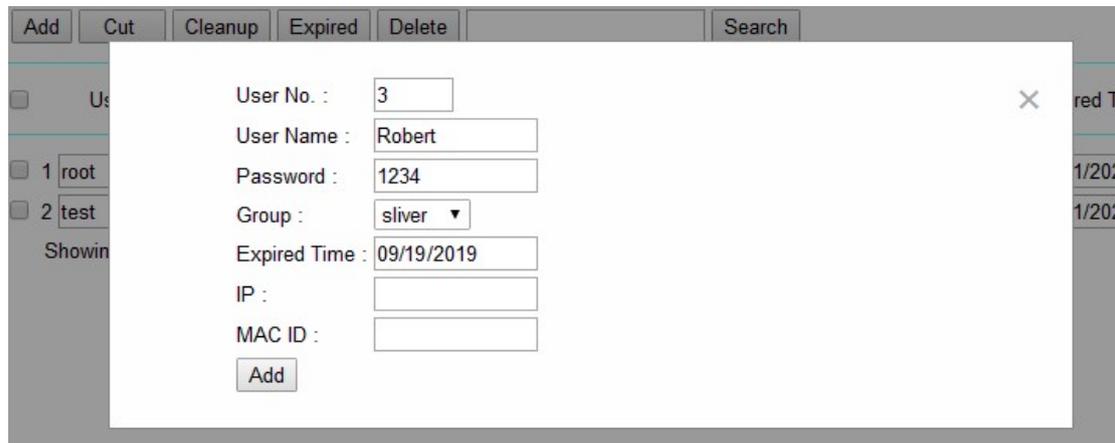
5. Create Timeshift Channel

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



6. Add New User

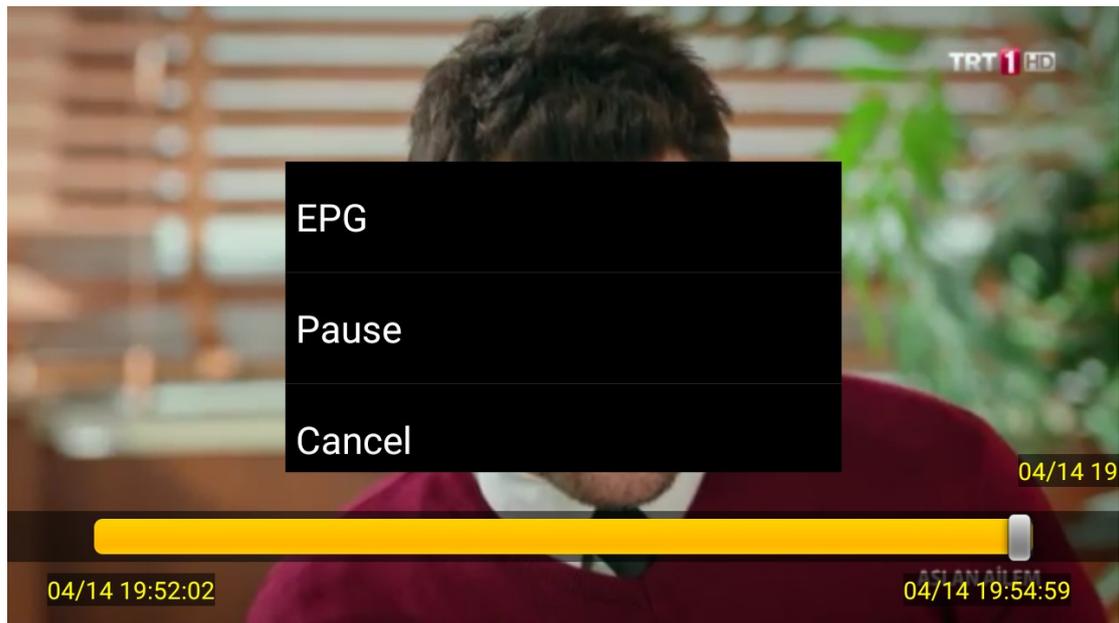
- Login IPTV panel
- Click User button to add new user.



7. Timeshift Channels

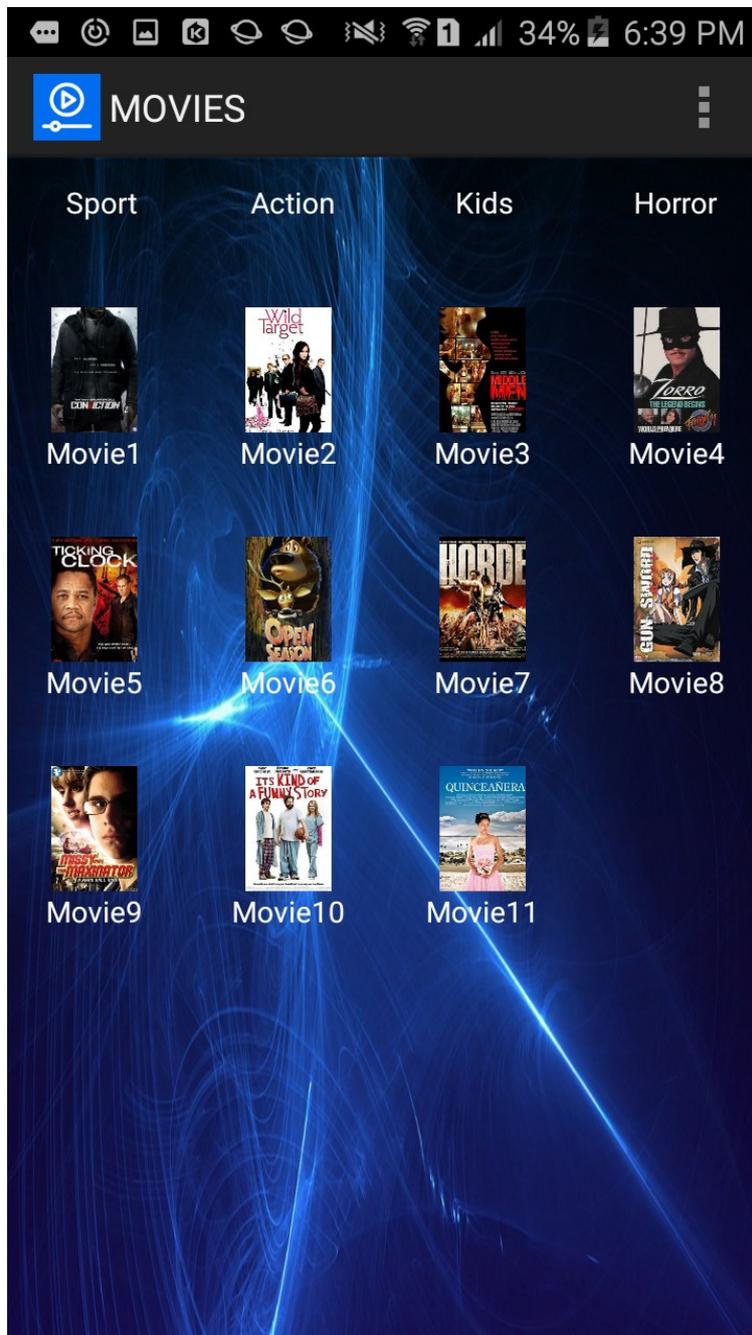
When you click a **timeshift channel** icon to watch it, you can click any position of the screen to enable OSD menu for **seek bar** and **menu list funtions**.

- 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.



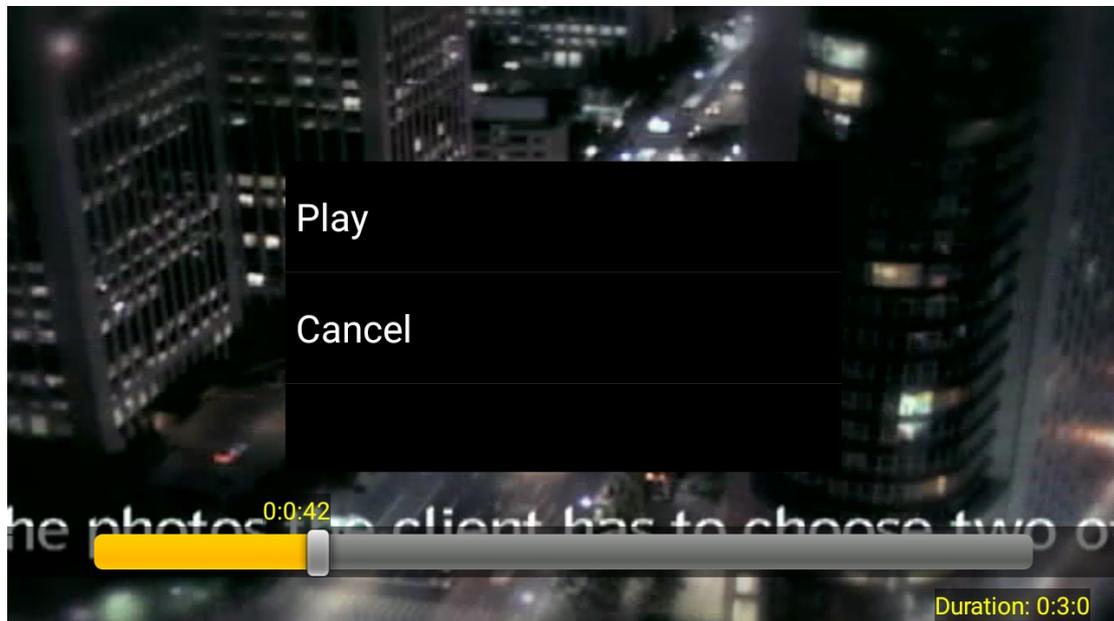
8. Video on Demand

Select MOVIES 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. 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

Setting

Save

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

Setting

Save

EPG Setting:

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

15. XMLTV EPG URL: (per day)

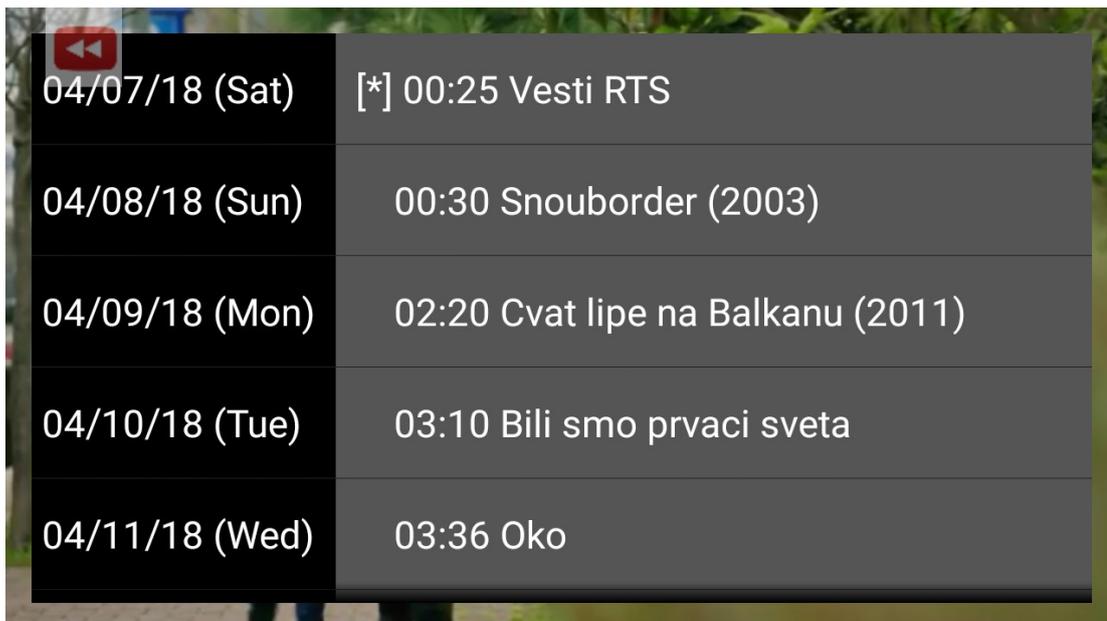
- Restart Ezserver
- Click Panel EPG button to check Channel EPG available as below:

AI v4.1(08/27/18)

Channel No.: 2018

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	
2	2018/05/14 01:55:00	2018/05/14 02:40:00	TV lica... Kao sav normalz	
3	2018/05/14 02:40:00	2018/05/14 03:15:00	Srpski sanitet u Velikom r	
4	2018/05/14 03:15:00	2018/05/14 03:40:00	Srbi u Australiji	
5	2018/05/14 03:40:00	2018/05/14 04:05:00	Šest lica tanga	Muzicka emisija RT

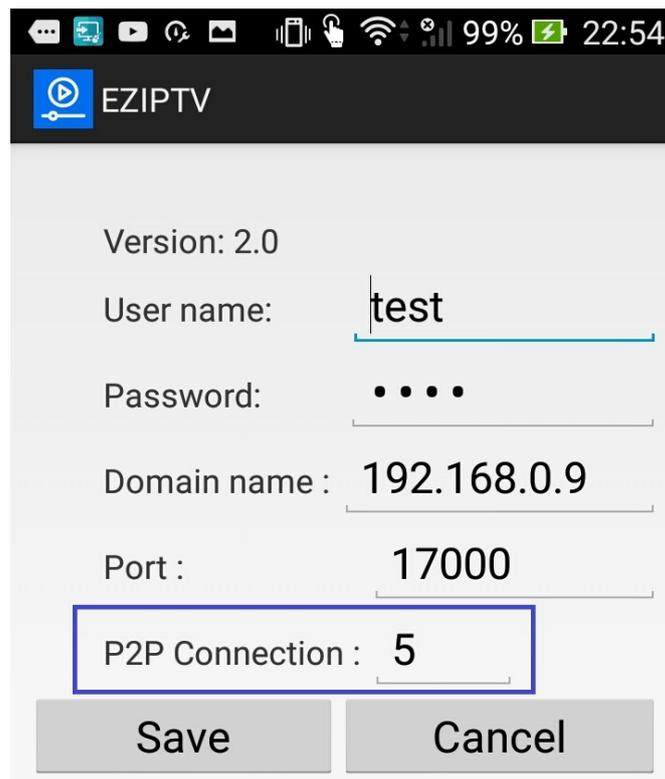
- Click Player EPG button to show the below EPG list of the channel and [*] optiion of one program name is for Catch up TV that was recorded by its EPG time.



04/07/18 (Sat)	[*] 00:25 Vesti RTS
04/08/18 (Sun)	00:30 Snouborder (2003)
04/09/18 (Mon)	02:20 Cvat lipe na Balkanu (2011)
04/10/18 (Tue)	03:10 Bili smo prvaci sveta
04/11/18 (Wed)	03:36 Oko

10. P2P

- Disable P2P Seed: P2P Connection = 0
- Enable P2P Seed: P2P Connection > 0
- **P2P Connection = 5** means 5 connections for any player as EZIPTV, VLC, XCIPTV, and etc.
- **Open Port 8000 in virtual server or forwarding in user router.**



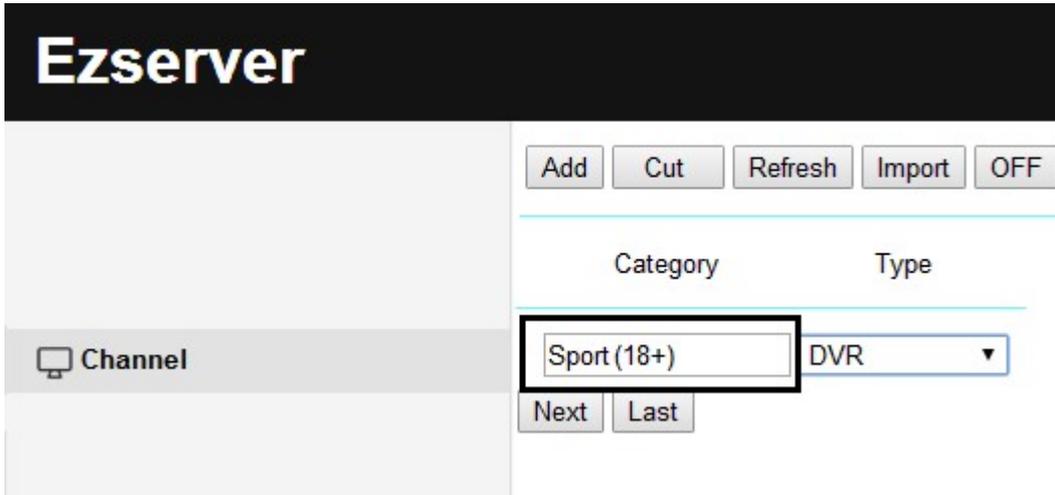
The screenshot shows the EZIPTV app interface on a mobile device. The status bar at the top displays various icons, 99% battery, and the time 22:54. The app header includes the EZIPTV logo and name. The settings screen contains the following fields:

- Version: 2.0
- User name: test
- Password: ••••
- Domain name : 192.168.0.9
- Port : 17000
- P2P Connection : 5 (highlighted with a blue box)

At the bottom, there are two buttons: Save and Cancel.

11. Parent Control

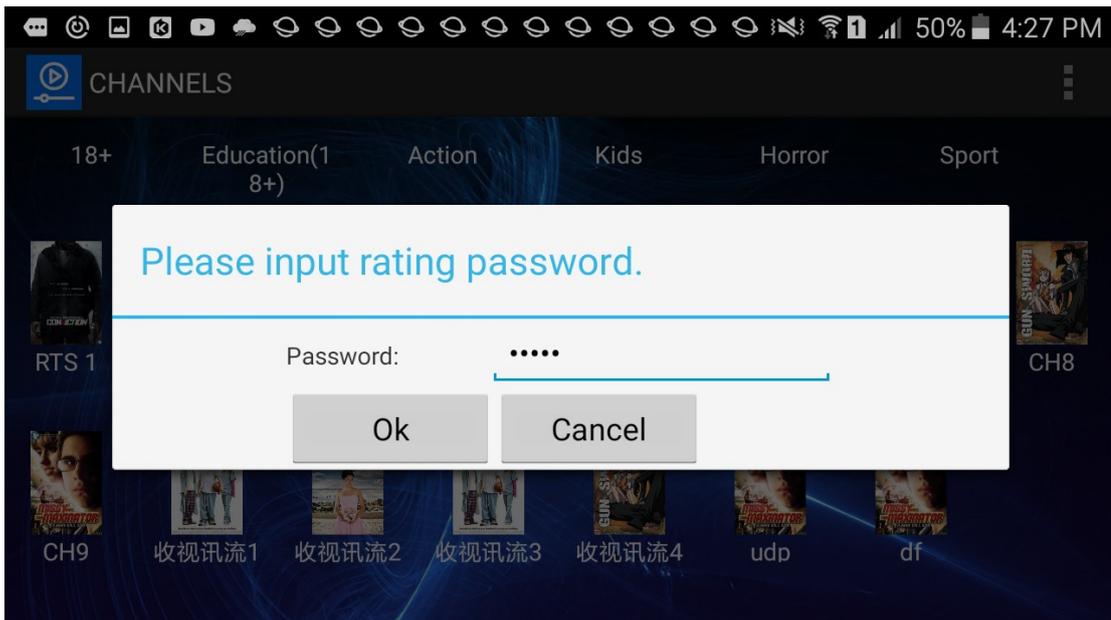
Add "18+" keyword into channel and movie **categories** of IPTV Panel



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 EZIPTV 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:

The image shows a mobile application interface for EZIPTV. At the top, a browser address bar displays `192.168.0.10:18000/admin/index.htm`. Below this is the 'Ezserver' settings page, which includes a 'Save' button and a section for 'Unicast Streaming Settings' with the following fields:

- 1. Panel port: 18000 --- Administrator Panel Port
- 2. API port: 17000 --- Application Program Interface Port
- 3. HTTP port: 8000 --- HTTP Streaming Port for players
- 4. RTMP port: 1935 --- RTMP Streaming Port for players

Below the settings page is a system status bar showing icons for notifications, power, camera, back, forward, mute, Wi-Fi, signal strength, 34% battery, and the time 6:39 PM. At the bottom of the screen is the EZIPTV logo and name.

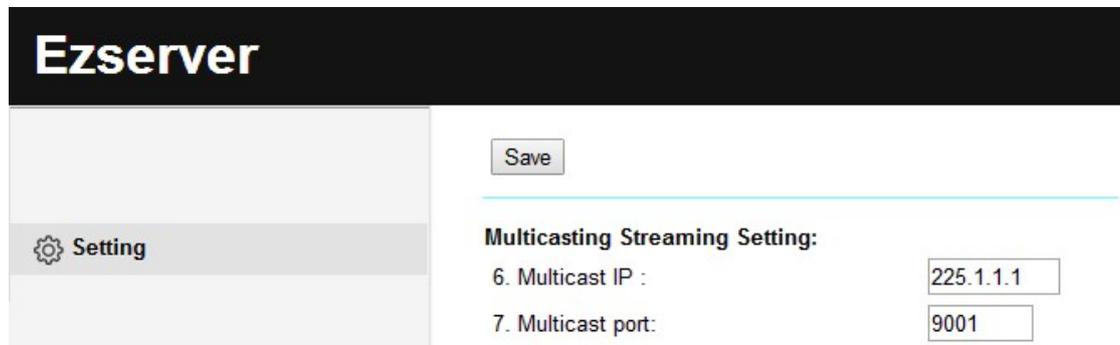
Overlaid on the bottom half of the screen is a configuration dialog box with the following fields:

- Version: 1.0
- User name: test
- Password:
- Domain name : 192.168.0.10
- Port : 17000

At the bottom of the dialog are two buttons: 'Save' and 'Cancel'. Two black lines indicate that the IP address '192.168.0.10' from the browser address bar is being copied into the 'Domain name' field, and the 'API port' value '17000' from the settings page is being copied into the 'Port' field.

13. Multicast Setting

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

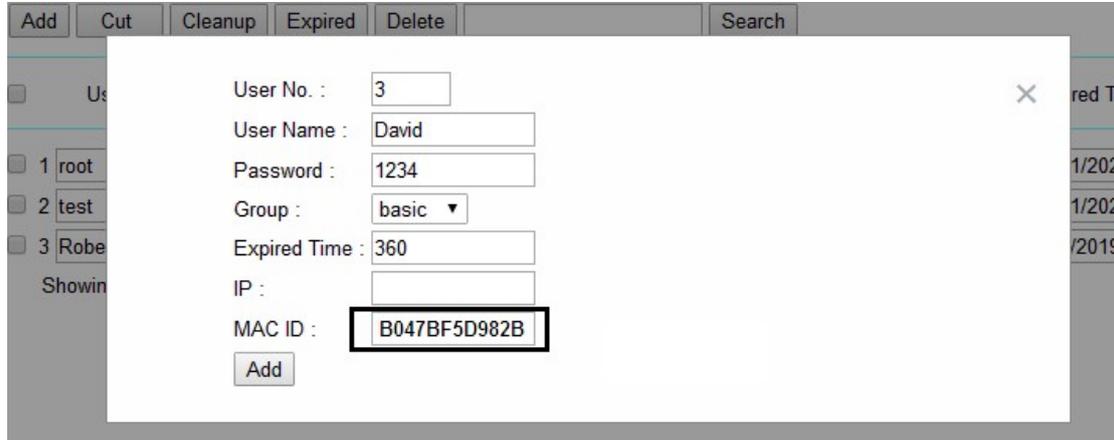


The screenshot shows the Ezserver IPTV Panel interface. At the top, there is a black header with the text "Ezserver" in white. Below the header, there is a sidebar on the left with a "Setting" option, indicated by a gear icon. The main content area on the right features a "Save" button at the top. Below the button, there is a section titled "Multicasting Streaming Setting:" with 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

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

Administrator can add new user withj MAC ID.

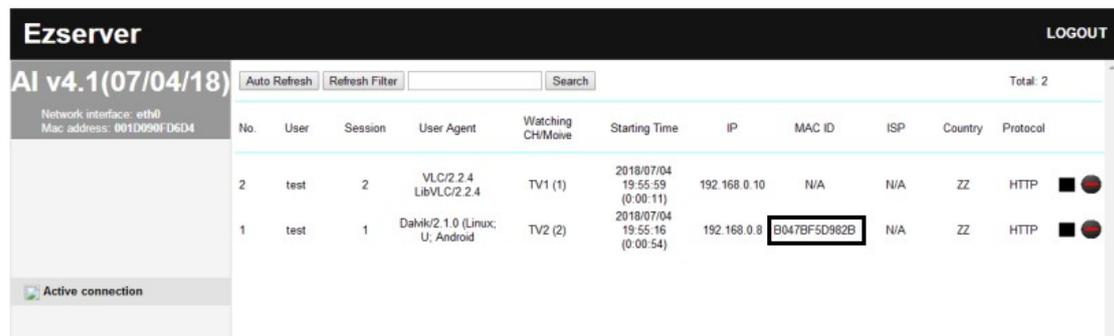


The screenshot shows a web interface for adding a new user. The form includes the following fields:

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

An "Add" button is located at the bottom of the form. The MAC ID field is highlighted with a red box.

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 dashboard with the following information:

- Version: AI v4.1(07/04/18)
- Network interface: eth0
- Mac address: 901D090FD6D4
- Logout button
- Auto Refresh, Refresh Filter, Search buttons
- Total: 2

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 field in the second row is highlighted with a red box.

15. Timeshift Recording Buffer Size

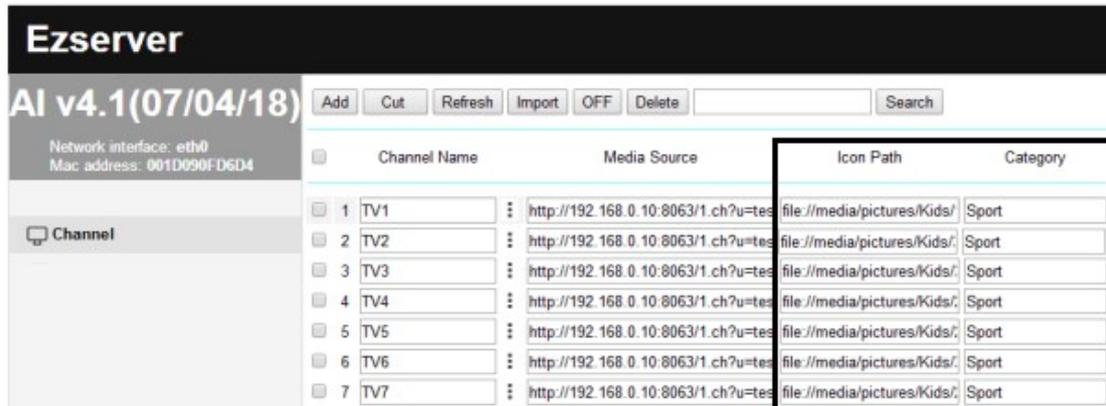
It is the duration for recording live video to do timeshift functions as pause, resume, backward and forward.

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, which is currently selected and highlighted in grey. To the right of the menu is a 'Save' button. Below the 'Save' button is a section titled 'Channel Setting:'. This section contains five configuration items, each with a text input field and a label: 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. The 'DVR Duration' row is highlighted with a red rectangular border.

Setting ID	Setting Name	Value	Unit/Label
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

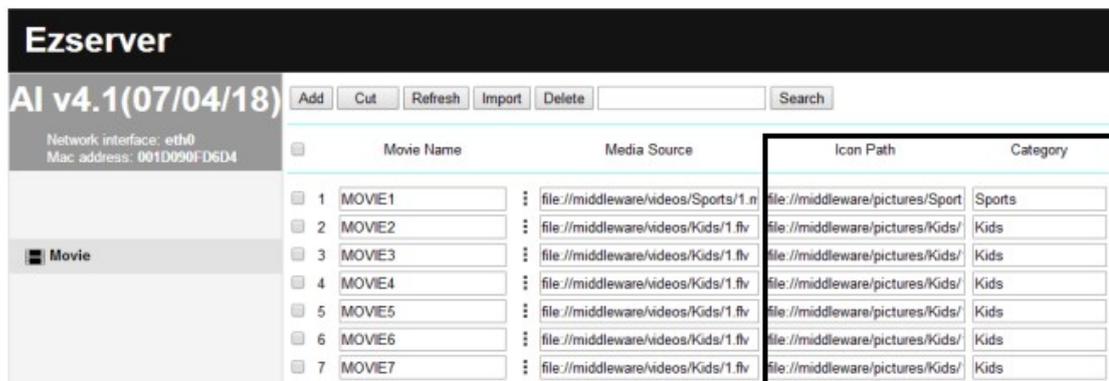


The icon property is as below:

- 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