



EZIPTV

User Guide

Supports Unicast, Multicast and P2P Streaming.

www.ezhometech.com

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Version : 3.0

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1. Introduction

EZIPTV 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.



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

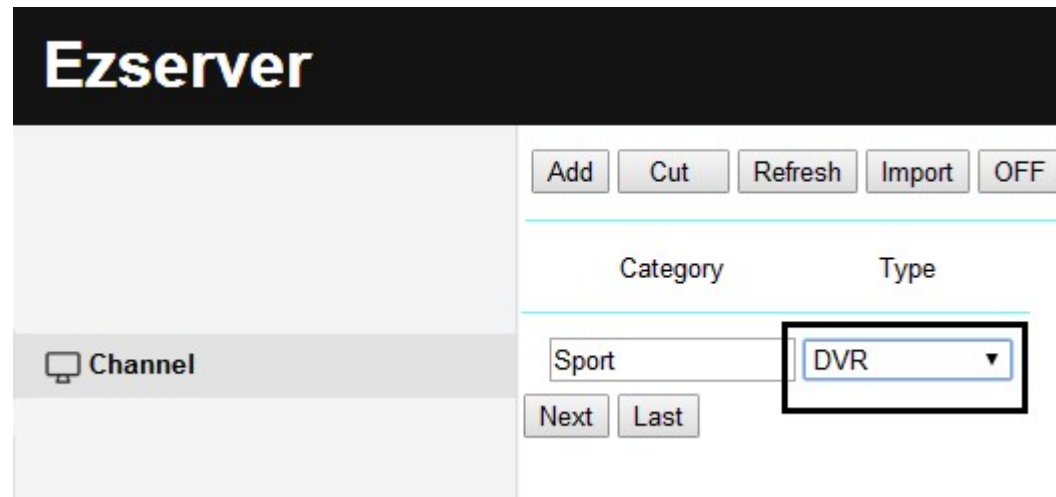
4. Software Specification

General Function
• HTTP Streaming Protocol
• MAC Address protection
• Support Smart TV, IP STB, Tablet PC, Mobile Phone
• Support Touch Screen Menu
• Support Remote Controller
• Support Video Server: EZserver
• Automatic App Update
• Automatic Start
IPTV/OTT
• Video Streaming From Ezserver
• Channel Selection
• P2P Live Streaming
• Video Format: MPEG2/H264 Transport Stream, Adobe FLV
• My Channels
• My Favorite
• Time expired checking
• Automatic Channel Update
• EPG
• Catch up TV
• Parent Control
Video On Demand
• Video Format : MP4, Adobe FLV
• Playback : Pause, Play, Resume, Forward/Backward Seek
• Menu Bar for Movie Category
• Automatic and Real-Time Movie Category Update
• My Movies
• Easy-to-Use Playback Menu
• Parent Control
Series
• Seasons, episodes
User Setting
• User Name and Password
• Expired date

Domain Name Setting
• Support Domain name and IP
• Port
• Test Connnection
External Player Setting
• exoplayer
• vlc

5. Create Timeshift Channel

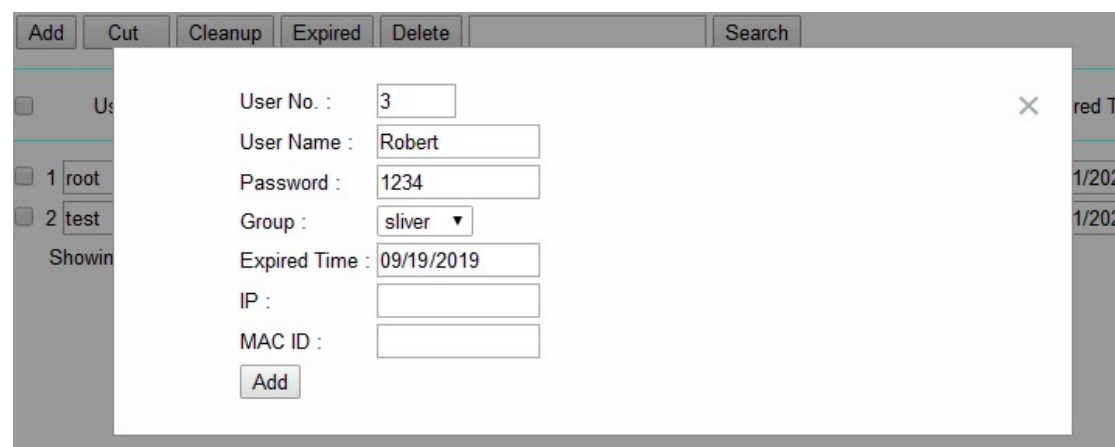
- Login IPTV panel
- Click Channel button and set Type to **DVR**, then click Save button.



The screenshot shows the Ezserver IPTV panel. On the left, there is a sidebar with a 'Channel' button. On the right, there is a table with columns 'Category' and 'Type'. The 'Type' column has a dropdown menu with 'DVR' selected. Above the table, there are buttons: 'Add', 'Cut', 'Refresh', 'Import', and 'OFF'. Below the table, there are buttons: 'Next' and 'Last'.

6. Add New User

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



The screenshot shows the 'Add New User' dialog box. It contains the following fields and values:

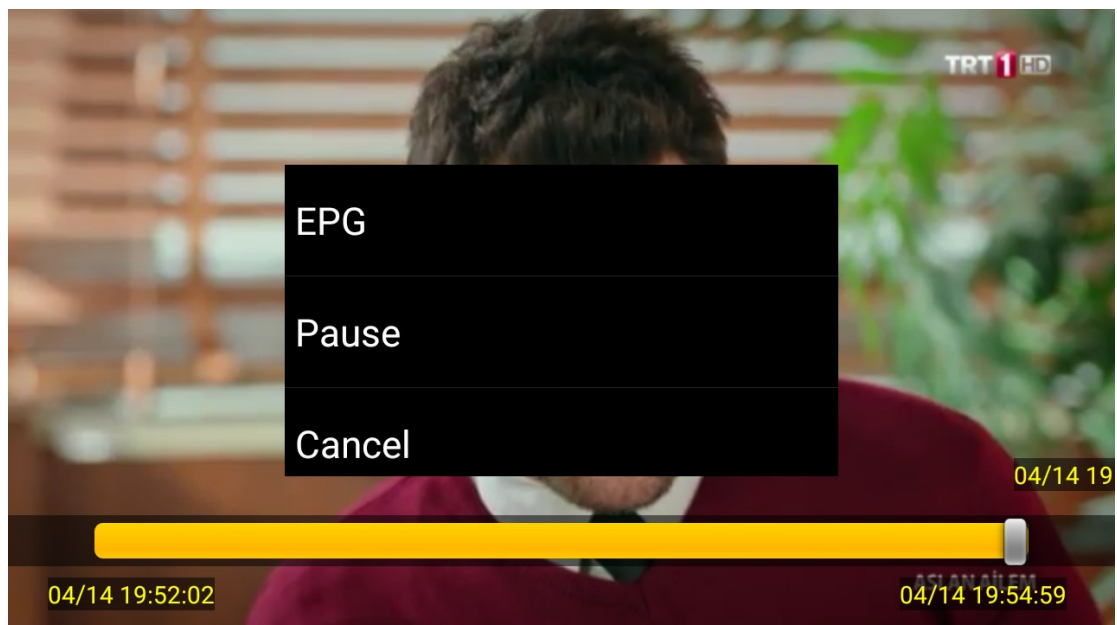
Field	Value
User No. :	3
User Name :	Robert
Password :	1234
Group :	sliver
Expired Time :	09/19/2019
IP :	
MAC ID :	

There is an 'Add' button at the bottom left of the dialog box. The background shows a list of users with checkboxes and a 'Search' button.

7. Timeshift Channels

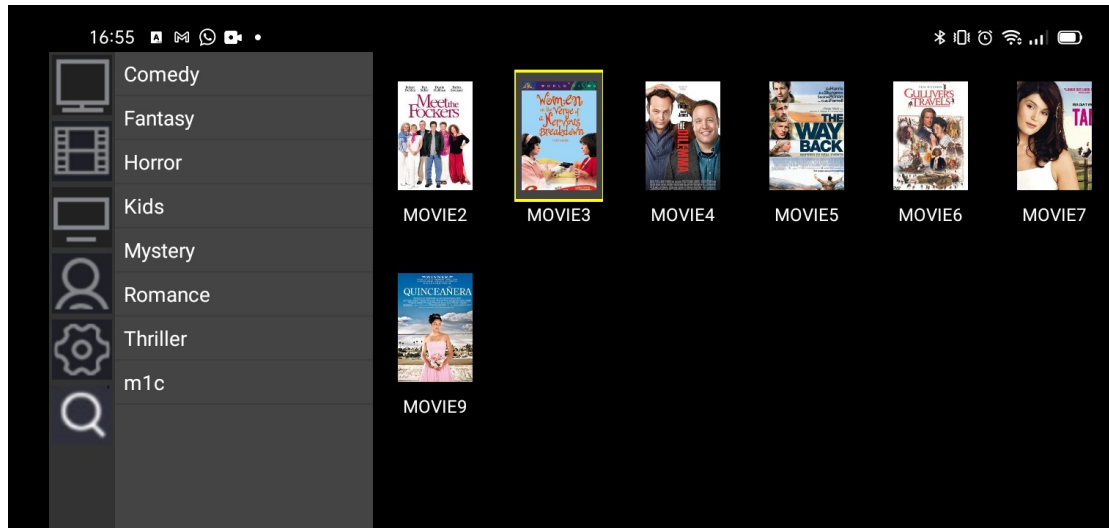
When you click a **timeshift channel** icon to watch it, you can click any position of the screen to enable OSD menu for **seek bar** and **menu list funtions**.

- 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.



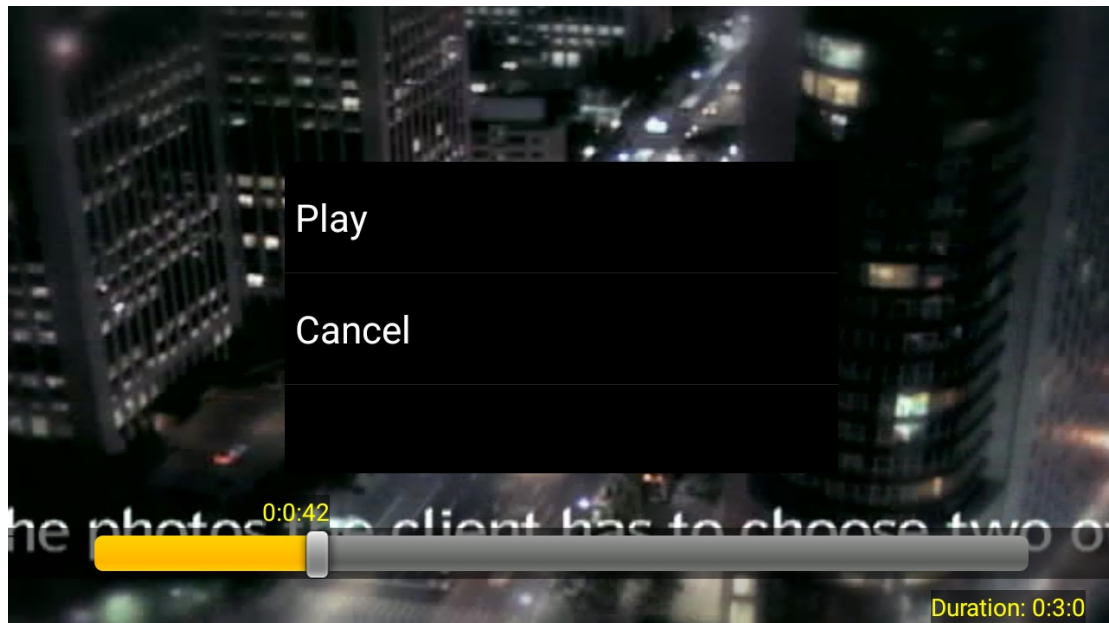
8. Video on Demand

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**.

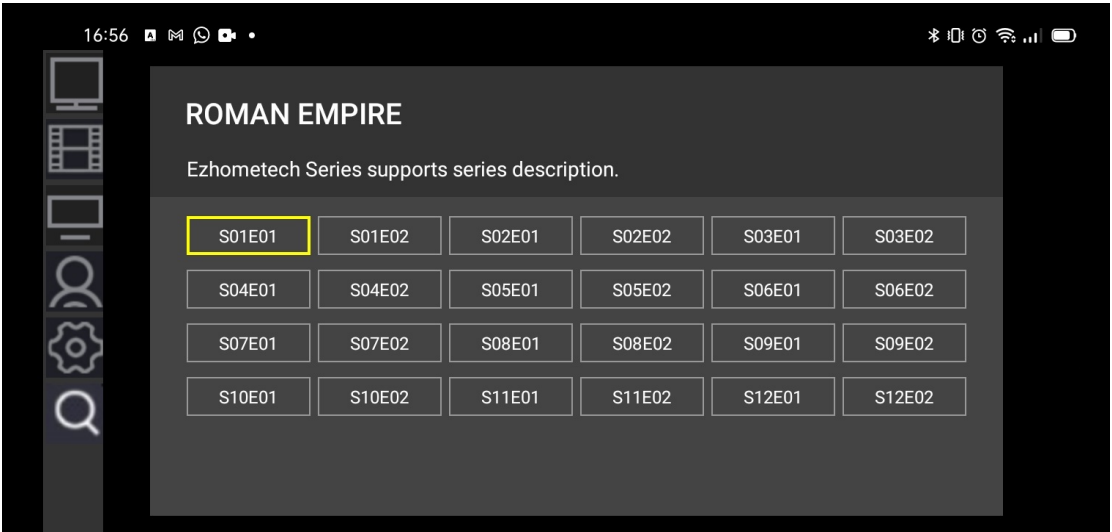
- Click Pause / Play button to pause / resume the channel.
- For **seek bar**, you can click drag the **seek button** to forward/backward movie.



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

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)

Network interface: eth0
Mac address: 001D090FD6D4

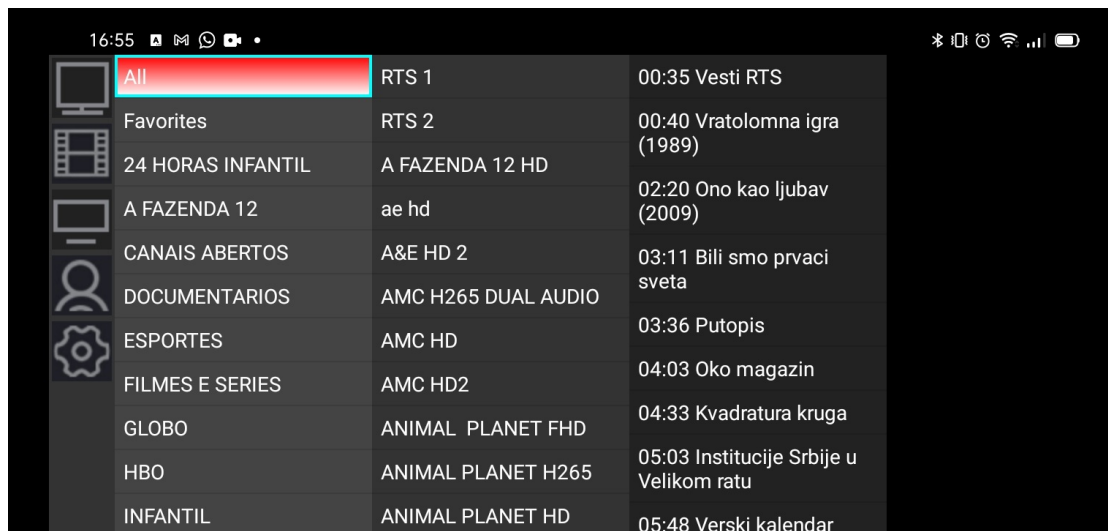
EPG

Add Refresh

Channel No.: 2018 05 Query

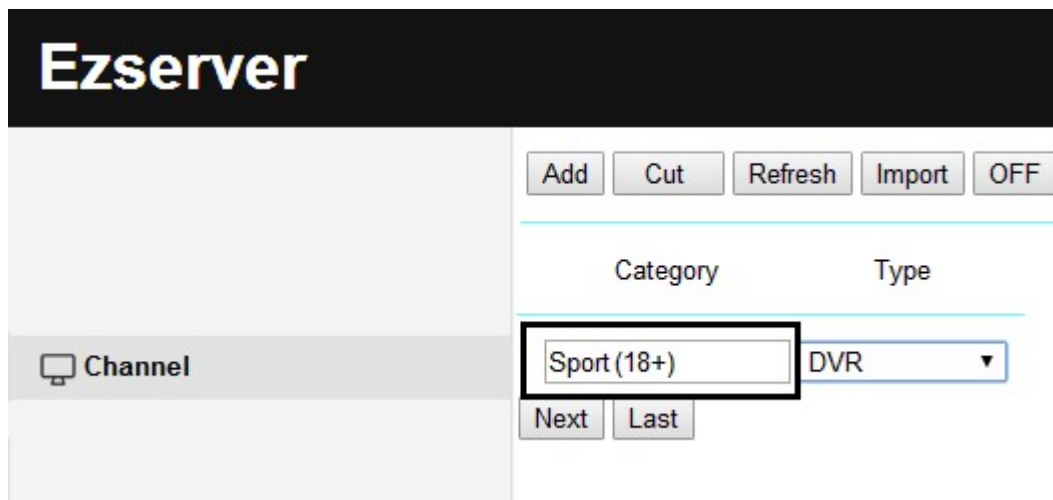
No.	Start Time YYYY/MM/DD hh:mm:ss	Stop Time YYYY/MM/DD hh:mm:ss	Program Title	Program
1	2018/05/14 00:55:00	2018/05/14 01:55:00	Trezor	
2	2018/05/14 01:55:00	2018/05/14 02:40:00	TV lica... Kao sav normala	
3	2018/05/14 02:40:00	2018/05/14 03:15:00	Srpski sanitet u Velikom r	
4	2018/05/14 03:15:00	2018/05/14 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 [*] option of one program name is for Catch up TV that was recorded by its EPG time.



11. Parent Control

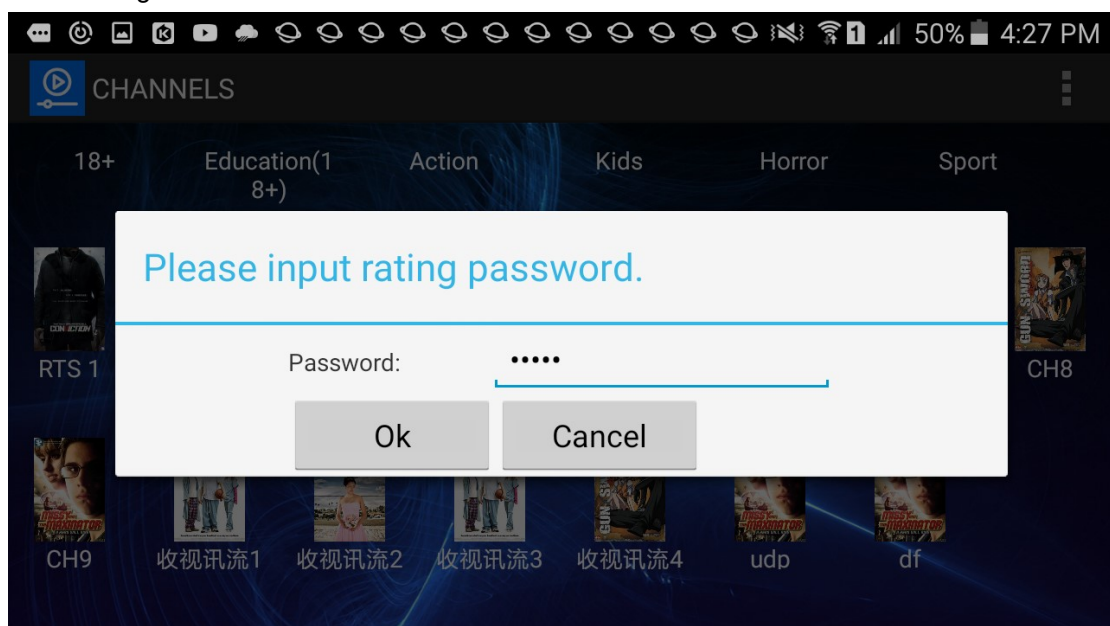
Add "18+" keyword into channel and movie **categories** of IPTV Panel



Input rating password in user more profile as below:

User:	root
IP 2:	192.168.0.1
IP 3:	192.168.0.2
IP 4:	192.168.0.3
IP 5:	192.168.0.4
Rating Password:	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:

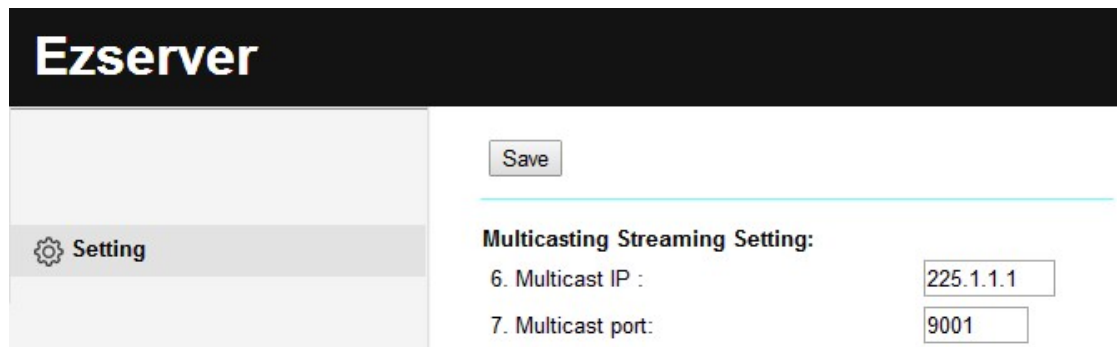
The screenshot displays the EZIPTV Player's settings interface. At the top, a browser address bar shows the URL `192.168.0.10:18000/admin/index.htm`. Below this is the 'Ezserver' header. A 'Setting' tab is active on the left. The 'Unicast Streaming Settings' section contains four rows of configuration:

Setting	Value	Description
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, the 'EZIPTV' logo is visible. The 'Domain name' is set to `192.168.0.10` and the 'Port' is set to `17000`. A 'Test Connection' button is located below these fields. At the bottom, there are two status icons: a green checkmark and a red X.

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' web interface. On the left, there is a sidebar with a 'Setting' option, indicated by a gear icon. The main content area is titled 'Multicasting Streaming Setting:' and contains two input fields. The first field is labeled '6. Multicast IP :' and has the value '225.1.1.1'. The second field is labeled '7. Multicast port:' and has the value '9001'. A 'Save' button is located at the top right of the main content area.

Multicasting Streaming Setting:	
6. Multicast IP :	225.1.1.1
7. Multicast port:	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 modal form for adding a new user. The form contains the following fields and values:

- User No.: 3
- User Name: David
- Password: 1234
- Group: basic (dropdown menu)
- Expired Time: 360
- IP: (empty field)
- MAC ID: B047BF5D982B (highlighted with a red box)

At the bottom of the form is an "Add" button. The background shows a table with columns: Add, Cut, Cleanup, Expired, Delete, Search.

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. On the left, it displays "AI v4.1(07/04/18)" and network information: "Network interface: eth0" and "Mac address: 001D090FD6D4". On the right, there is a table of active connections. The table has columns: No., User, Session, User Agent, Watching CH/Move, Starting Time, IP, MAC ID, ISP, Country, Protocol. Two connections are listed:

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	Dahki/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. At the bottom left, there is a status bar showing "Active connection".

15. Timeshift Recording Buffer Size

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

Ezserver

 Setting

Save

Channel Setting:

8. Channel Input Buffer No.: -- Panel w

9. Channel Streaming Prebuffer No.: -- The va

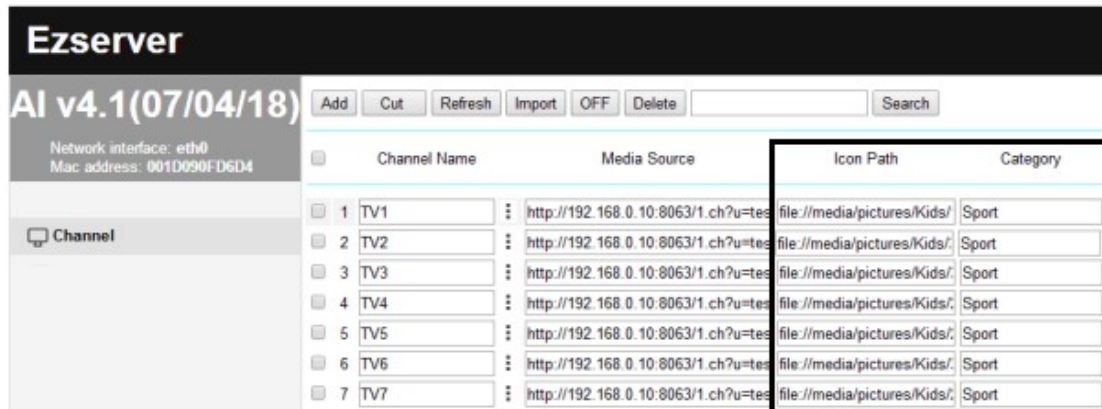
10. Channel Streaming Bitrate Tolerance: -- Value: 0

11. Channel Reconnection Interval: sec.

12. DVR Duration: 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

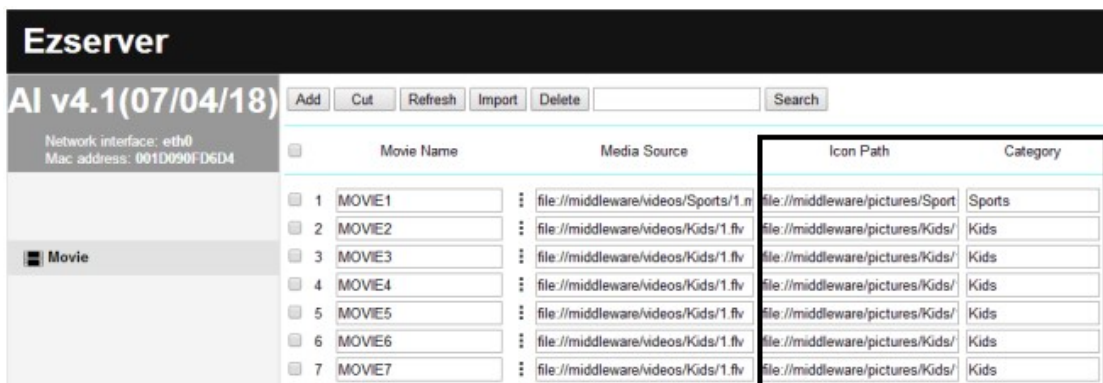


The icon property is as below:

- 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