



FMUSER Hotel IPTV System

Complete Hospitality IPTV Solution

IRDs, Hardware Encoder, IPTV Gateway, IPTV Set-top Boxes, Auxiliaries

Contact us

- Email: sales@fmuser.com
- WhatsApp/Tel: [+86 13922702227](tel:+8613922702227)
- Solution Indexed: <https://www.fmradiobroadcast.com/product/detail/hotel-iptv.html>
- Video Demonstration: <https://youtu.be/OjVFQs34oYI>
- Online Chat: <https://jivo.chat/IEHTbmpYDr>

Introduction

In the past, cable television was favored by some small hotels due to less guest demand, lower equipment costs, and free program sources.

But in today's increasingly demanding stay experience requirements, just watching TV can no longer meet the entertainment needs of the vast majority of hotel guests.



Different from the cable TV system, the IPTV system has introduced a more advanced interactive system, which can meet the various needs of hotel guests during their stay through

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a variety of interactive functions, such as online meal ordering, video-on-demand, and even online check-out.

A [professional hotel IPTV system](#) is actually an integrated content management system that can integrate all these entertainment functions, for example, being able to watch TV as well as big-name content platforms such as YouTube and Netflix, and of course, to order services online such as online meals and VOD!



Today, the IPTV system has been regarded as the standard facility of hotel rooms, which will undoubtedly promote the hotel to speed up the process of upgrading to the hotel IPTV system.

FMUSER will be your ideal partner to provide a comprehensive and cost-effective hotel IPTV system upgrade.

We provide a variety of high-quality IPTV hardware including integrated receiver/decoder (IRD), HDMI hardware encoder, and IPTV gateway.

You can customize the number and standard according to the needs of the hotel.

At the same time, we also provide two sets of background management systems, including a management system for content sources and a content management system for customizing your hotel services.

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[Contact us today](#) and submit your hotel's demand information, such as the number of rooms, budget, and other demand information, we will tailor a complete set of high-performance hotel IPTV system for your hotel according to your actual needs and budget.

Video#1: Solution Quick View

HI GUYS! In the following 30 minutes, you'll learn how to build up a complete hotel IPTV system, which consists of:

- IPTV hardware introduction
- Content management system introduction



Watch NOW: <https://youtu.be/0jVFQs34oYI>

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If you are the hotel boss or an IT engineer who works for the hotel, or an outsourced IT services supplier, this is the best hotel IPTV system for you. BTW, our team of engineers is able to formulate the most suitable IPTV system solution for your hotel based on your actual needs!

Video#2: Solution Q&A

You will learn 2 hotel IPTV solution FAQ lists in the following 12 minutes, one for the hoteliers, mainly focusing on system basics, while another list is for hotel engineers, which focuses on IPTV system expertise.



Watch NOW: <https://youtu.be/YzBcyj2NASE>

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Anyway, make sure you guys have fun on our channel, we cover all your needs on the IPTV system! Remember to leave your comment and let me know if this video is helpful, or let me know what you guy needs so that I can create more useful content for you.

About FMUSER

As one of the largest hotel IPTV system integrators in China, FMUSER manufactures and provides hotel IPTV systems suitable for hotels of all sizes, and provides various hardware solutions including IRDs, hardware encoders, and IPTV servers.

A collage of five images illustrating the Hotel IPTV system. Top left: A man in a black shirt holding a bundle of cables. Top right: A modern hotel room with a large bed, a window with a view of a city, and a bedside table with a lamp. Bottom left: A stack of FMUSER hardware units, including an IPTV Gateway and a set-top box, with a small TV displaying the system interface below them. Bottom middle: A street view of a hotel entrance at night with a "HOTEL" sign. Bottom right: A long, brightly lit hotel hallway with wooden doors and a polished floor.

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1. A unit of FBE304 8-way IRD
2. A unit of FBE208 4-way HDMI hardware encoder
3. A unit of FBE800 IPTV server that allows 40 IP inputs
4. 3 units of a network switch with 24 IP inputs
5. 75 units of set-top boxes
6. Cables and accessories

www.fmradiobroadcast.com

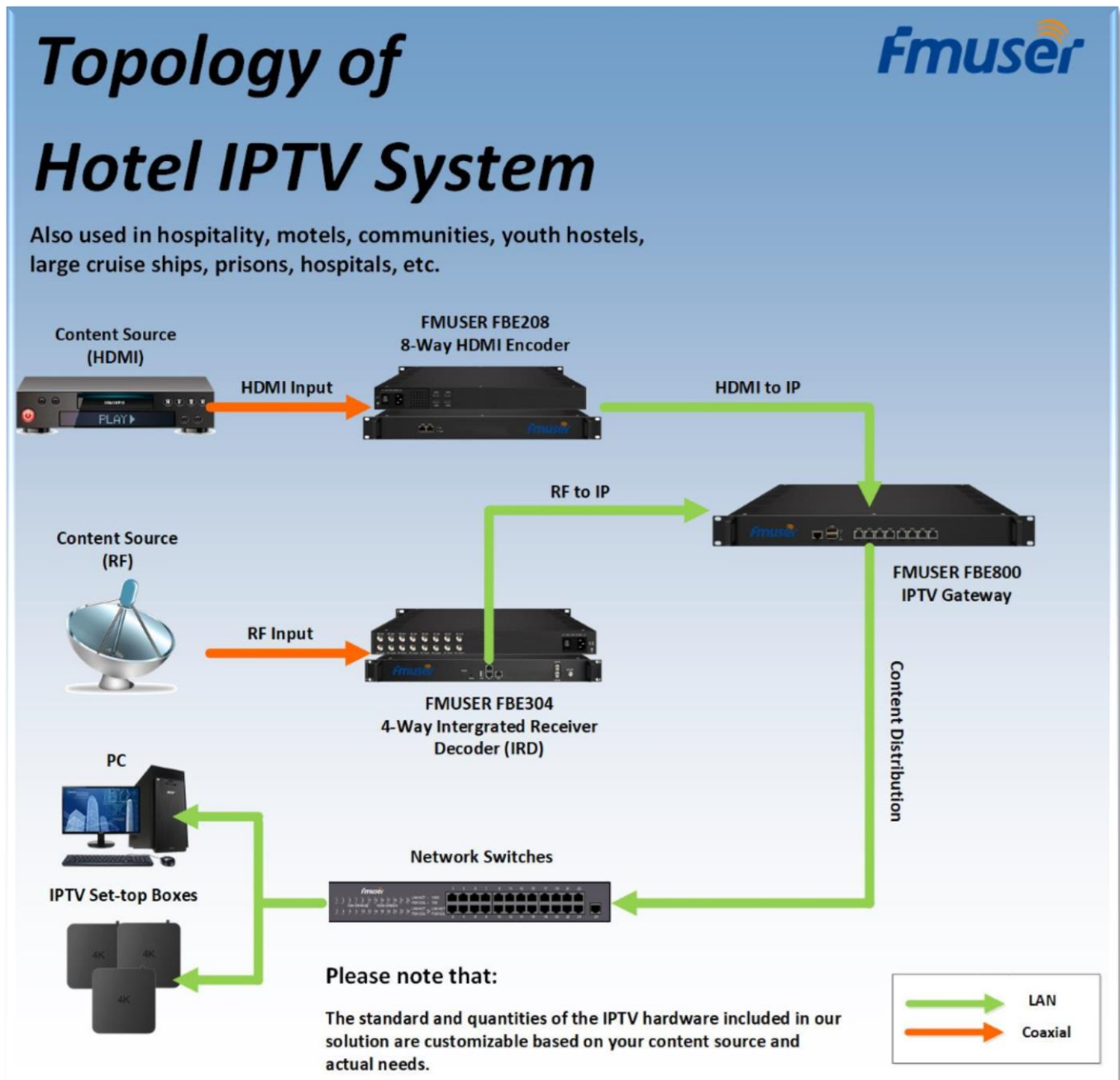
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Combing with a content management system, our solutions allow you to interact with users according to the actual situation of your hotel. You can provide hotel residents with multi-channel high-definition IPTV, ordering services, and recommendations for eating, drinking, and entertainment nearby, which is conducive to improving your hotel's turnover. [Visit More>>](#)

Since 2010, FMUSER's hotel IPTV system solutions have been successfully deployed and served hundreds of large hotels around the world.



Main Equipment Introduction

And here are the least IPTV system equipment for a hotel:

- A unit of FBE304 8-way IRD
- A unit of FBE208 4-way HDMI hardware encoder
- A unit of FBE800 IPTV server that allows 40 IP inputs
- 3 units of a network switch with 24 IP inputs
- 75 units of set-top boxes
- Cables and accessories

Auxiliary Equipment of FMUSER Hotel IPTV System

However, besides the devices included in our solution, you will need to prepare auxiliaries that can be purchased locally, which are:

- Ethernet cables for the engineering room to the guest's rooms
- Stable power supply
- Televisions for guests' room
- RF cable for satellite dish
- Few units of the satellite dish
- Any devices with HDMI output

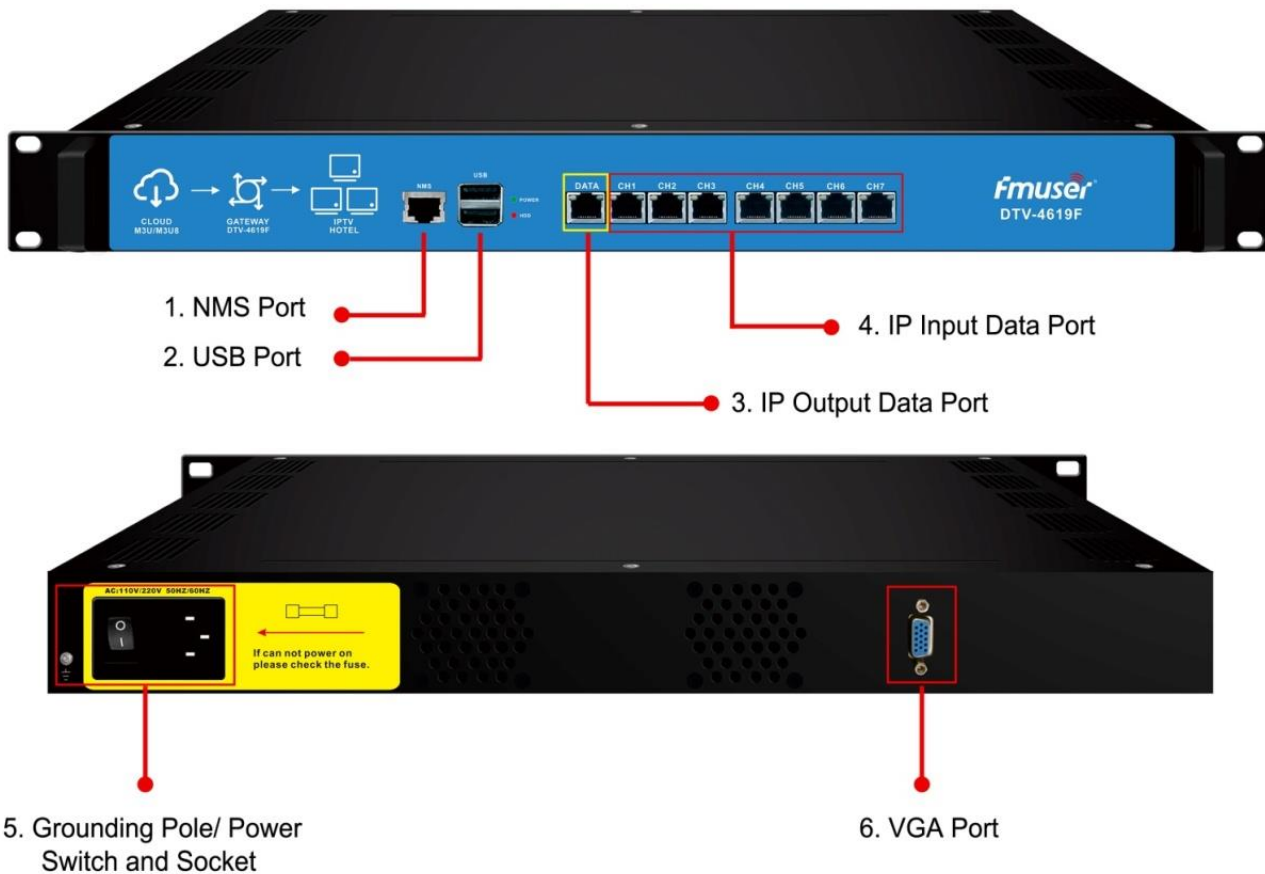
Since these devices are relatively basic, they are not included in our hotel IPTV system solutions for the time being, but they are also necessary.

And if you or your engineers are having trouble finding these devices, you may reach out to us for help! Talk to our engineers online, ask for a quotation via WhatsApp, or just give us a call, we are always listening!

Contact us Today

- Email: sales@fmuser.com
- WhatsApp/Tel Chat: [+86-13922702227](https://wa.me/8613922702227)
- Solution Indexed: <https://www.fmradiobroadcast.com/product/detail/hotel-iptv.html>
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FMUSER FBE800 IPTV Gateway Hardware Server



Applications

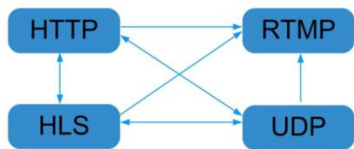
- Hospitality
- Communities
- Military
- Large cruise ships
- Prisons
- Schools

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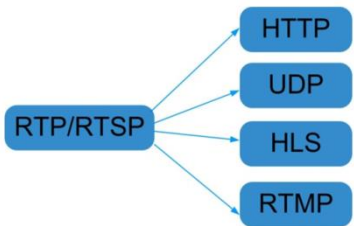
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General Description



As one of the most important devices of FMUSER's hospitality IPTV solutions, the FMUSER FBE800 IPTV gateway is also widely used for hotels, communities, schools, etc.



With a compact and solid design, the FBE800 IPTV gateway can perform well for long service life and can easily convert the IP content over HTTP, UDP, RTP, RTSP, HLS, and TS files into HTTP, UDP, HLS, and RTMP protocols.

FBE800 IPTV gateway is favored by hospitality for its high performance and being energy-saving and low cost,

Specification

Terms	Specifications
Content Customization	Yes
Maximum Terminals	150 sets
NMS Management	Web-based
Programs Format	Around 80 sets, HD/SD supported
Programs Bitrate	2 Mbps
Scrolling Caption	Supported
Welcome Words	Supported
Boot Image	Supported
Boot Video	Supported
Dimensions (MM)	482(W)*324(L)*44(H)
Suggested Temperature	0~45°C(operation), -20~80°C(storage)
Power Supply	AC 100V±10%, 50/60Hz or AC 220V±10%, 50/60Hz
Memory	4G
Solid-State Disk (SSD)	16G
Channel Switching Time	HTTP (1-3s), HLS (0.4-0.7s)
TS Files Uploading	Web Management

Notice

1. When HTTP/RTP/RTSP/HLS is converted into UDP (Multicast), the actual application shall prevail and suggest a maximum of 80% CPU utilization.
2. Content customization services such as welcome words and boot interface videos are only applicable to IP out applications and the STB/Android TV should install FMUSER IPTV APK.
3. IP output via Data port (1000M) over HTTP (Unicast), UDP (SPTS, Multicast) HLS and RTMP (Program source should be H.264 and AAC encoding) IP out thru CH 1-7(1000M) over HTTP, HLS, and RTMP (Unicast).

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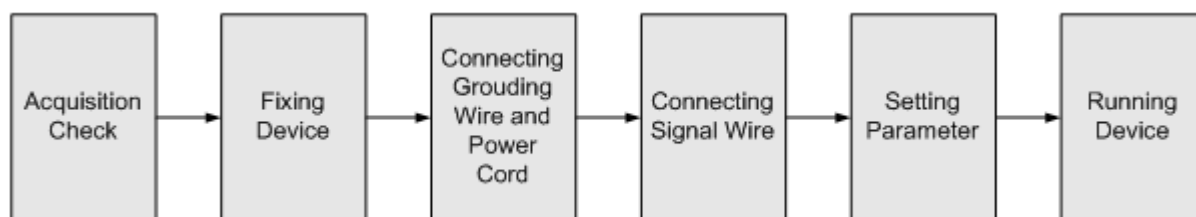
4. IP input thru CH 1-7(1000M) over HTTP, UDP(SPTS), RTP(SPTS), RTSP (over UDP, payload: MPEG TS), and HLS.

Product Features

1. FBE800 IPTV gateway has up to 8 data ports, including 1 IP output port and 7 IP input ports, among which, the IP output port is used to output IP over HTTP, UDP (SPTS), HLS, and RTMP, while the IP input ports are used for inputting IP over HTTP, UDP (SPTS), RTP (SPTS), RTSP, and HLS.
2. Support TS files uploading through Web management
3. Support IP anti-jitter function
4. Support adding scrolling caption, welcome words, boot image, and boot video (this function is only applicable to IP out the application and the STB/Android TV must be installed FMUSER IPTV APK)
5. Support downloading FMUSER IPTV APK directly from this device
6. Support about 80 HD/SD programs (Bitrate:2Mbps) When HTTP/RTP/RTSP/HLS is converted into UDP (Multicast), the actual application shall prevail, and suggest maximum 80% CPU utilization
7. Support program playing with APK downloaded android STB and TV, maximum 150 terminals
8. Control via web-based NMS management through DATA port

Installation Guide

Step#1 - Installation Preparation



When users install device, please follow the below steps. The details of installation will be described at the rest part of this chapter. Users can also refer rear panel chart during the installation.

The main content of this chapter including:

1. Checking the possible device missing or damage during the transportation
2. Preparing relevant environment for installation
3. Installing gateway
4. Connecting signal cables

5. Connecting communication port (if it is necessary)

Environment Requirement

Item	Requirement
Machine Hall Space	When user installs machine frame array in one machine hall, the distance between 2 rows of machine frames should be 1.2~1.5m and the distance against wall should be no less than 0.8m.
Machine Hall Floor	Electric Isolation, Dust Free Volume resistivity of ground anti-static material: 1X10 ⁷ ~1X10 ¹⁰ W, Grounding current limiting resistance: 1M (Floor bearing should be greater than 450Kg/m ²)
Environment Temperature	5~40°C(sustainable), 0~45°C(short time), installing air-conditioning is recommended
Relative Temperature	20%~80% sustainable 10%~90% short time
Pressure	86~105KPa
Door & Window	Installing rubber strip for sealing door-gaps and dual level glasses for window
Wall	It can be covered with wallpaper, or brightness less paint.
Fire Protection	Fire alarm system and extinguisher
Power	Requiring device power, air-conditioning power and lighting power are independent to each other. Device power requires AC power 100V-240V 50/60Hz 2A. Please carefully check before running.

Grounding Requirement

All function modules' good grounding designs are the basis of reliability and stability of devices. Also, they are the most important guarantee of lightning arresting and interference rejection. Therefore, the system must follow this rule.

Coaxial cable's outer conductor and isolation layer should keep proper electric conducting with the metal housing of device.

Grounding conductor must adopt copper conductor in order to reduce high frequency impedance, and the grounding wire must be as thick and short as possible.

Users should make sure the 2 ends of grounding wire well electric conducted and be antirust.

It is prohibited to use any other device as part of grounding electric circuit

The area of the conduction between grounding wire and device's frame should be no less than 25mm².

Frame Grounding

All the machine frames should be connected with protective copper strip. The grounding wire should be as short as possible and avoid circling. The area of the conduction between grounding wire and grounding strip should be no less than 25mm².

Device Grounding

Connecting the device's grounding rod to frame's grounding pole with copper wire.

Step#2 - Wire's Connection

The grounding wire conductive screw is located at the right end of rear panel, and the power switch, fuse, power supply socket is just beside, whose order goes like this, power switch is on the left, power supply socket is on the right and the fuse is just between them.

1. Connecting Power Cord: User can insert one end into power supply socket, while insert the other end to AC power.
2. Connecting Grounding Wire: When the device solely connects to protective ground, it should adopt independent way, say, share the same ground with other devices. When the device adopts united way, the grounding resistance should be smaller than 1Ω.

⚠ Caution:

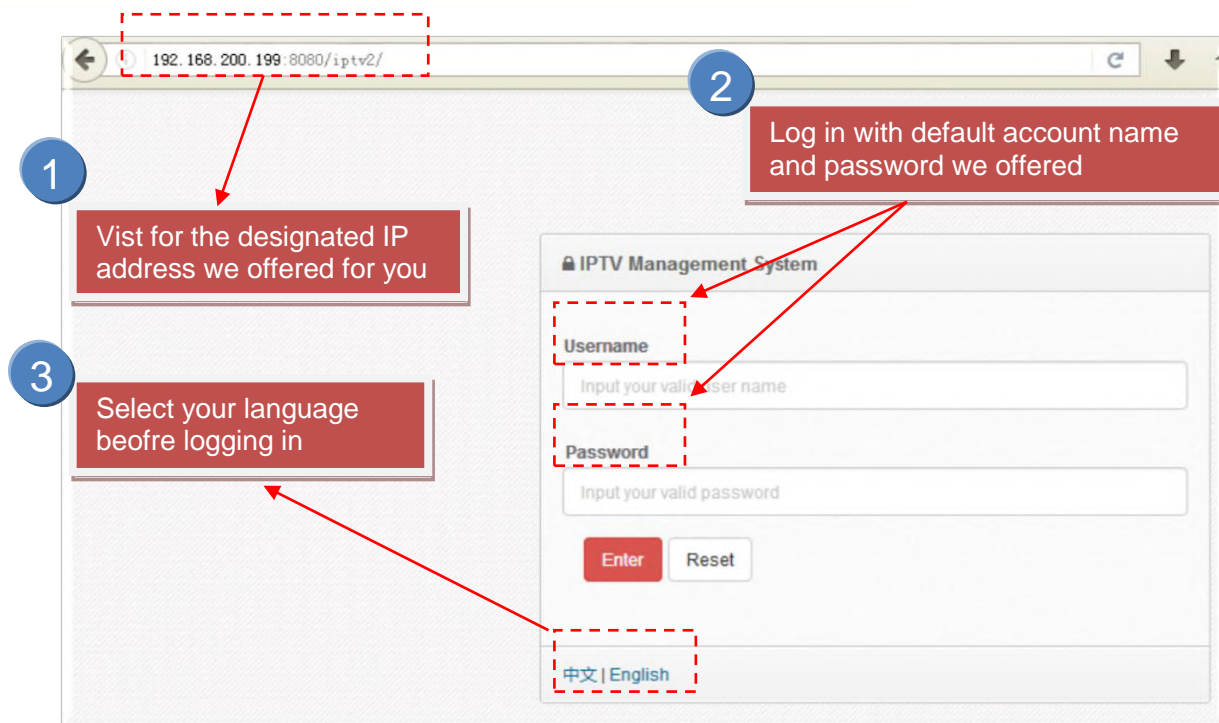
Before connecting power cord to NDS3508F IPTV Gateway, user should set the power switch to "OFF".

Management System User Manual

Management System Login

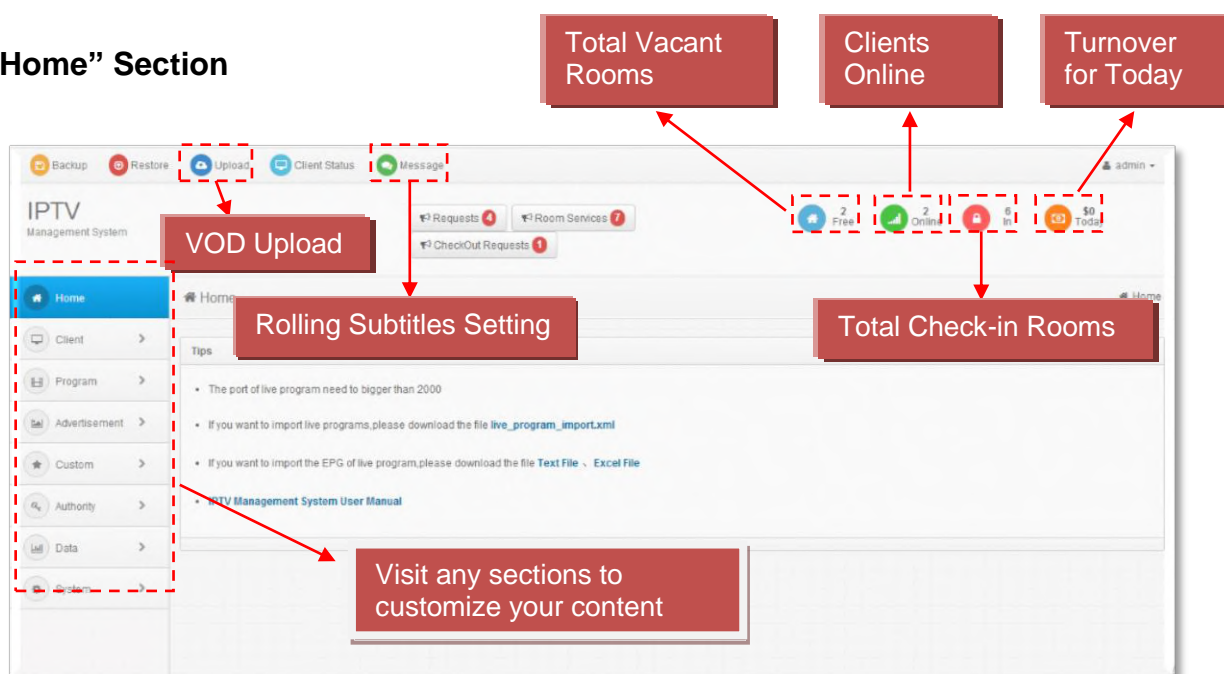
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Launch your browser (e.g. Google, Firefox, etc.) and visit 'http://serverIP:port/iptv2' with the default number and password (e.g. http://192.168.200.199:8080/iptv2, and the server defaulted port number is 8080). Make sure to select the default language before logging in. If you would like a demo, please contact us for details.

The "Home" Section

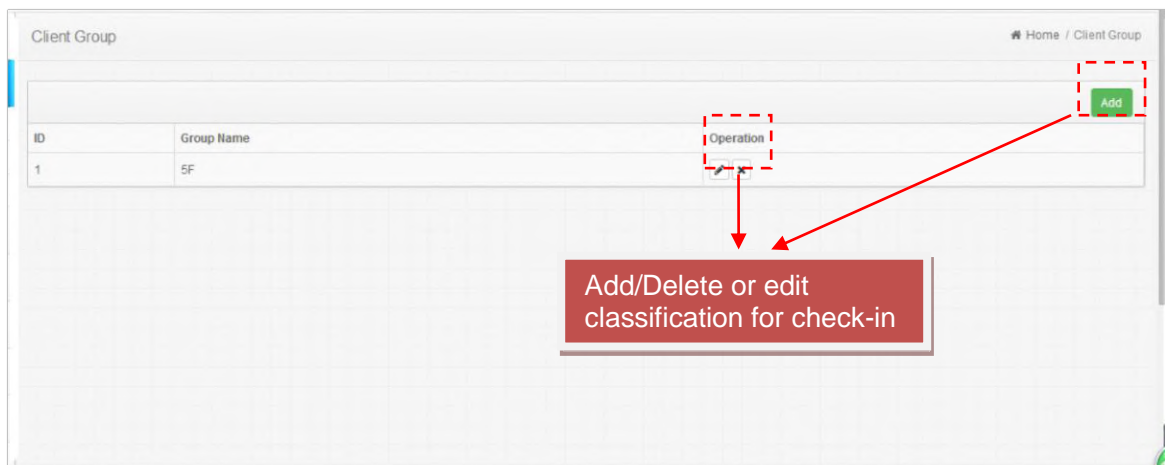


When administrator confirms the login, it displays the home page interface.

The “Client” Section

Administrators can manage all STBs via three sections. Including: Client Group, Client Information, Client Status.

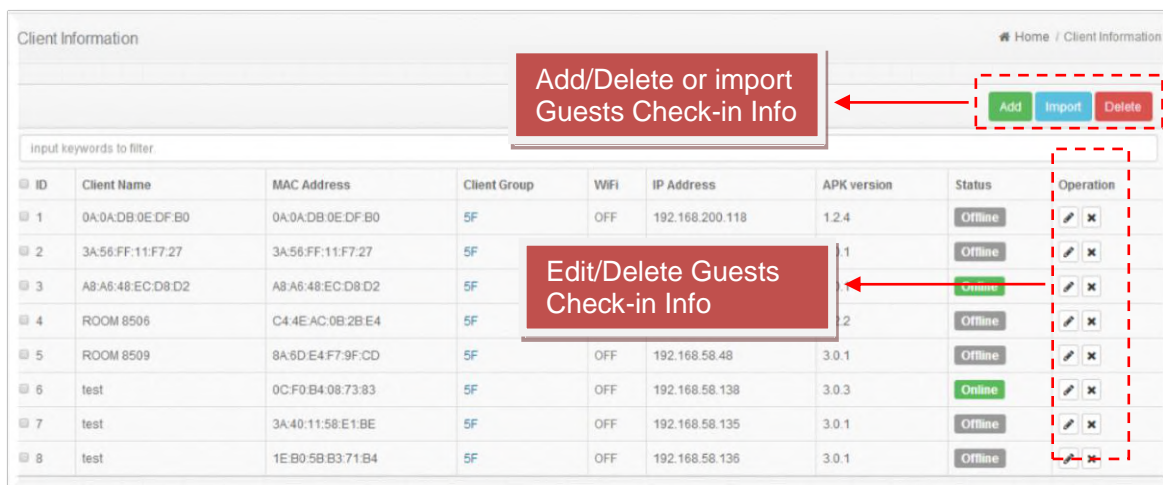
Classification #1 - Client Group



Administrator can divide clients into groups according to the hotel suite type, floor, price, etc. The different group STB can play customerized live programs, text, picture and video advertisement.

NOTE: Administrators delete group will delete all the group members' information. If administrator wants to delete a group, please assign the client group members to other group.

Classification #2 - Client Information



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When STB connected the server, the information of client will display on this interface, and administrator can name this client and divide it into group.

Classification #3 - Client Status

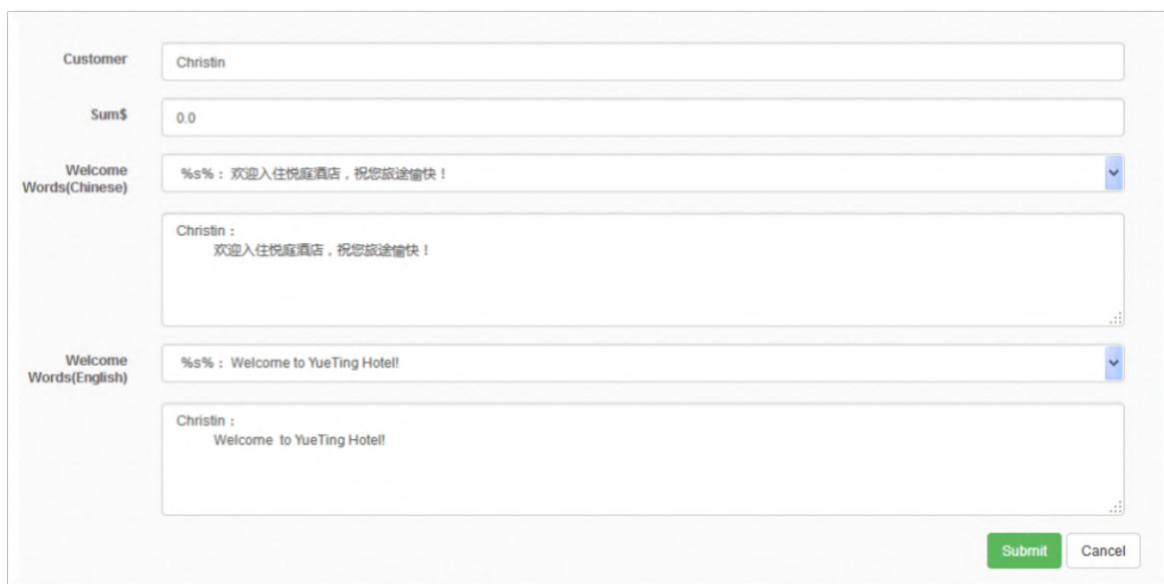
Remotely Monitor Your Guests and see if there were any requests

Administrator can edit check in and check out information and welcome words, and check consumption information and history checking records. When customers check in the IPTV service can be provided.

Button #1 - Checking guests ordering records in “Consume”

Consume (ROOM 8509)								
Total : \$ 392.0								
ID	Client Name	Type	Content	Count	Price	Order Time	Finish Time	Operation
1	ROOM 8509	Food	Chocolate Mousse	3	\$56.0	2017-11-19 13:44:04		✕
2	ROOM 8509	Food	Pan-fried Steak	1	\$0.0	2017-11-19 13:44:04		✕
3	ROOM 8509	Food	Chocolate Mousse	4	\$56.0	2017-11-19 10:44:18		✕

Button #2 - Setting welcome words in “Edit”

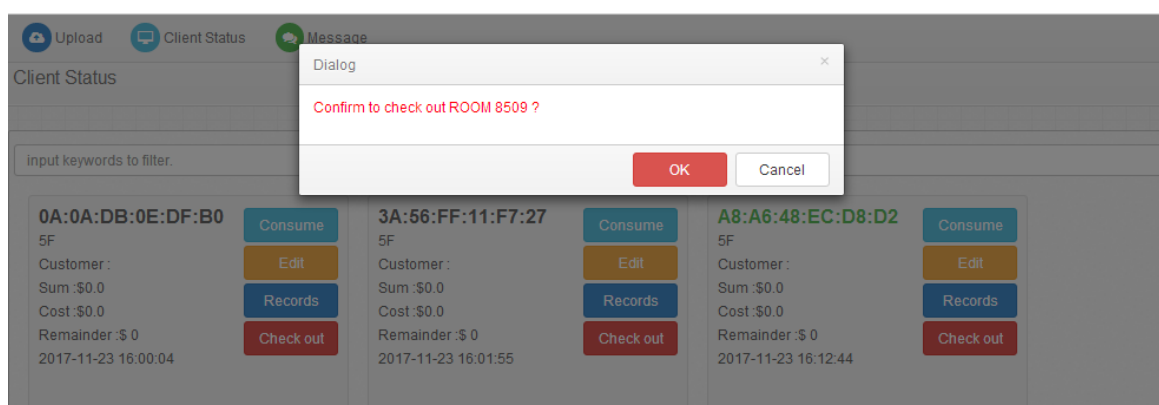


Button #3 - Checking guest' s payment records in “Edit”

Records (ROOM 8509) Home / Client Status / Records

ID	Customer	check in time	check out time	Cost	Operation
1	Christian	2017-11-18 16:31:31	2017-11-23 16:13:37	\$392.0	\$

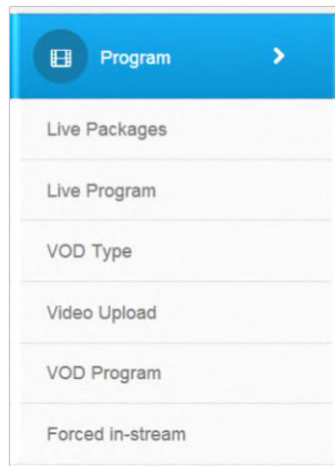
Button #4 - Confirming guest rooms check-out order in “Check-out”









The “Program” Section

Administrators can manage the Live and VOD programs here. Administrator can package the live programs, set price and select the STB to receive the programs. Live programs management: edit programs information including program name, programs' ID and logo etc. Administrator can manage the Live programs here. Administrator can classify VOD programs here.

NOTE: when HTTP live protocol is selected, the code rate information will display on this interface.



Classification #1 - Live Packages


Live Packages Home / Live Packages					
Add					
Id	Name	Price	Image	Client Image Visibility	Operation
1	CCTV	\$0.0		hidden	 
2	new	\$0.0		Visible	 

Edit Home / Live Packages / Edit

Id: 1

Name: CCTV

Price(\$): 0.0

Image:  Visible Change Image

Program Select

☒ All Programs
☐ CCTV-1
☐ CCTV-2
☐ CCTV-3
☐ CCTV-4
☐ CCTV-5

STB Select

☒ All
☐ 5F
☐ 0A:0A:DB:0E:DF:8D
☐ 3A:56:FF:11:F7:27
☐ AB:48:48:EC:D8:D2
☐ ROOM 8506
☐ ROOM 8509
☐ test
☐ test

Choose content sources

Choose set-top boxes in the designated guest's room for IPTV content

Submit

Cancel

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Classification #2 - Live Program

Importing live programs

Importing live programs EPG

Click the "Edit" icon and skip to the live TV editing page

Id	Name	URL	HTTP Bitrate	Image	Client Image Visibility	Timeshift	EPG	Operation
1	CCTV-1	udp://239.93.0.88:5140	7803kbps		Visible	▶ Start	⊙ EPG	✎ ✕
2	CCTV-2	udp://239.93.0.111:5140	2812kbps		Visible	▶ Start	⊙ EPG	✎ ✕
4	CCTV5	udp://239.93.0.112:5140	2809kbps		Visible	▶ Start	⊙ EPG	✎ ✕
5	CCTV9	udp://239.93.0.88:5140	7803kbps		Visible	▶ Start	⊙ EPG	✎ ✕

Click "Visible" to allow IPTV content displayed at the "Client Interface"

Id: 1

Name: CCTV-1

URL: udp://239.93.0.88:5140

Image: ☒ Visible Change Image

NOTE: Please input full address, including protocol, IP, port and other related information.

Administrator can download the files' format at the home page to batch import programs, and import files after filling in programs.

If user does click "☒ Visible" here, the program will be visible at client interface.

Administrator can click "⊙ EPG" to check program EPG information within one week. It only support off-line import at present, and download the imported files' format at the home page.

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"Live pro" allows live programs of various inputs from multi-format live programs, such as HDMI programs, homebrew programs, and satellite TV programs. Please note that the scrolling subtitles are allowed to will be displayed automatically throughout the menu of the IPTV system



Additionally, scrolling subtitles and forced-in streams are also supported. This means that you can advertise to your guests while they are using the IPTV system at a specific time.

Well, you may also In-stream your advertisement via forced-in stream videos, and show your customers that you have a canteen inside the hotel or a swimming pool on the 2nd floor.

Anyway, scrolling subtitles and the forced-in stream are vital to your hotel's marketing and you can earn more money through these two important functions of our hotel IPTV system.

Classification #3 – VOD (VOD Type, VOD, Video Upload)

VOD Type			Home / VOD Type
			Add
ID	Name	Operation	
1	Action		
2	Drama		
3	Cartoon		
5	Disaster		
6	test		
7	test		

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Edit

Home / VOD Type / Edit

ID: 1

Name: Action

Submit Cancel

Video Upload

Home / Video Upload

Upload, preview and manage customized videos to the system drives

Choose File Delete

input keywords to filter

All

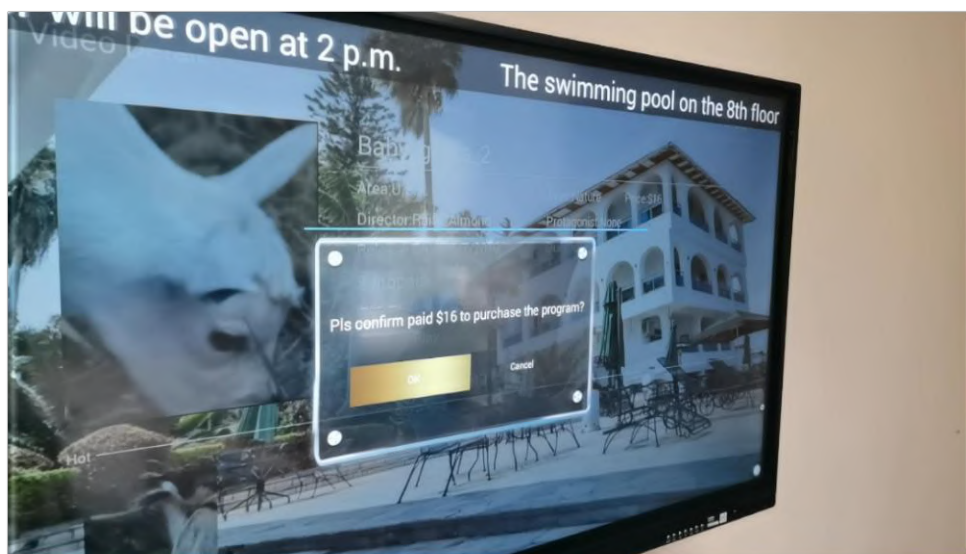
- 1 apanda.mp4
- 2 apanda11.mp4
- 3 hobiit.mp4
- 4 now.mp4

Used :123.60 MB | Free :501.52 GB

19.05 MB - 2017-11-06 10:21:05	▶	✕
19.05 MB - 2017-11-10 10:22:13	▶	✕
48.40 MB - 2017-11-06 10:21:04	▶	✕
37.11 MB - 2017-11-06 10:21:05	▶	✕

NOTE:

The uploaded video file name can only consist of numbers, subtitles and underline. File names contain with Chinese or other special symbol, which can also be uploaded to the server, but the set-top box port cannot be played normally. It supports upload and select multiple files at the same time.



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Please do not close this page in the process of uploading; if other pages are needed to operate, please open a new page.

Administrator can manage VOD programs.

VOD programs management: administrator can edit video information here.

The “VOD” function allows you to customize video-on-demand and its classifications. You can upload hotel promotional videos in the Vod section to manage the content of the hotel lobby screen. This helps enhance the guest's trust in your hotel. You can also upload any free or paid videos to the specific rooms at a specific time period.

For example, for VIP guests, I would suggest high-quality paid videos since they have a much more accommodation budget than the guests who ordered standard rooms, accordingly, for a standard room guest, I would suggest some classic movies that are charge-free.



Meanwhile, you can also set a few pieces of paid videos for testing, and see whether the standard room guest would pay for them.

VOD is also a unified way for more turnover potential.

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VOD Program Home / VOD Program

[Add](#) [Delete](#)

input keywords to filter:

ID	Poster	Name	Price	Area/Language	Director/Actors	Screen Time	VOD Type	Click Rate	Operation
1		Now You See Me Hot HD	\$0.0	America English	Louis Leterrier Jesse Eisenberg, Woody Harrelson	2013.5.13	Drama	7	
2		The Dark Knight Hot HD	\$0.0	America English	Christopher Nolan Christian Bale, Heath Ledger	2008.7.18	Action	3	
3		new	\$0.0		fas		Action	1	

Click the "Edit" icon and skip to the VOD details editing page

Edit

Poster [Change Image](#)

Name

Price(\$)

Director

Actors

Area

Language

Screen Time

VOD Type

Tag ☒ Hot ☒ HD

Off sale ☐

Introduction

[Submit](#) [Cancel](#)

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VOD Program Home / VOD Program

Add Delete

input keywords to filter:

ID	Poster	Name	Price	Area/Language	Director/Actors	Screen Time	VOD Type	Click Rate	Operation
1		Now You See Me Hot HD	\$0.0	America English	Louis Leterrier Jesse Eisenberg, Woody Harrelson	2013.5.13	Drama	7	
2		The Dark Knight Hot HD	\$0.0	America English	Christopher Nolan Christian Bale, Heath Ledger	2008.7.18	Action	3	
3		new	\$0.0		fas		Action	1	

Click the "Preview" to visit VOD content sources editing page

VOD source (Now You See Me) Home / VOD Program / VOD source

Add

ID	Source	Operation
1	Local File : apanda.mp4	
2	Local File : apanda11.mp4	
3	Local File : hobiit.mp4	

Click the "Add" to choose VOD content sources

Add (Now You See Me)

ID:

Source:

URL

URL

Local File

Submit Cancel

Mark VOD content sources as local files or IP address

Add (Now You See Me)

ID:

Source:

URL

http://vod.test.com/gslb?tag=live&stream_id=

Add (Now You See Me)

ID:

Source:

Local File

apanda.mp4

apanda11.mp4

hobiit.mp4

now.mp4

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Classification #4 - Forced in-stream

Forced in-stream Home / Forced in-stream

ID	In-stream program	Description	Operation
			<div>1</div> <div>Add Delete</div>

Click the "Add" to manage streaming content

STB Select

All

a

101

101-2

1011-1

1101-1

5808

5898

8888

C4:2A:FE:07:87:70

fjlasd

Room 8866

VOD TEST

wifi测试机顶盒

测试机顶盒

测试机顶盒1

钱江2

2

Select designated guest rooms to in-stream

Live / VOD

3

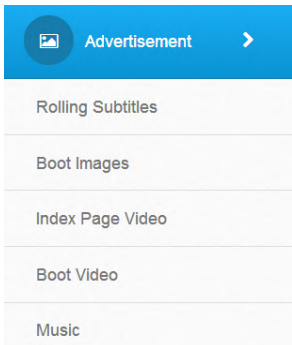
Program Select

All Programs

Description

Submit Cancel

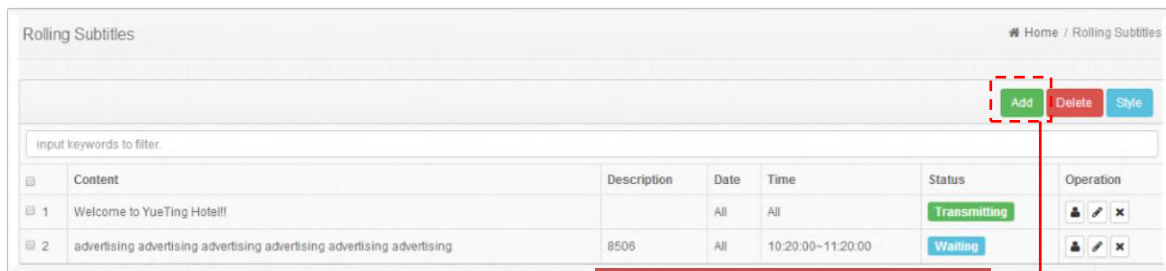
The “Advertisement” Section



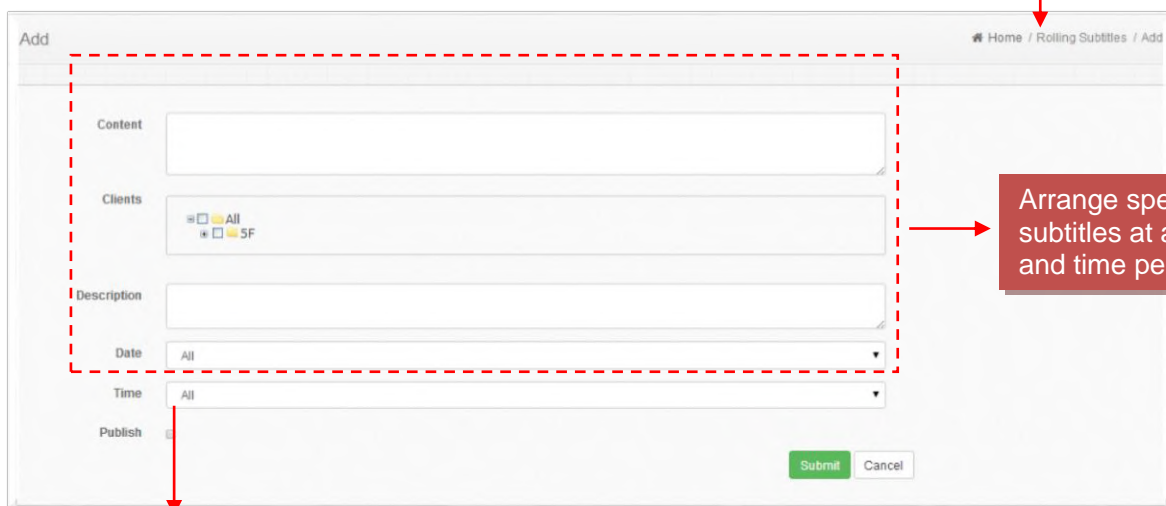
Administrator can click “Advertisement” to manage rolling subtitles, boot images, index page video and boot video displaying on client interface. Administrator can set rolling Subtitles to send text to specified client at specified date and time. The text will roll at the top of the screen. Administrators edit the images that will be displayed on client, and different client can be set different homepage advertisement. Administrators edit the video that will be displayed on client, and different client can be set different homepage advertisement.

Administrator can manage the video which playing on the client when it is turned on. Different client can be set different video. Administrator can add the music which playing on the client when it is turned on.

Classification #1 - Rolling Subtitles



Click the “Add” to edit new rolling subtitles in details



Arrange specific rolling subtitles at a specific date and time period

Tick “Publish” to publish the rolling subtitles set earlier

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Monitor every subtitles added and see if any adjustment is needed

Rolling Subtitles

Home / Rolling Subtitles

Add Delete Style

input keywords to filter.

	Content	Description	Date	Time	Status	Operation
1	Welcome to YueTing Hotel!!		All	All	Transmitting	
2	advertising advertising advertising advertising advertising advertising	8506	All	10:20:00 - 11:20:00	Waiting	

1. **Transmitting:** the text is under publishing.
2. **Timeout:** the text is expired.
3. **Waiting:** the text is awaiting publishing.
4. **Unpublish:** the "Publish" is not ticked

Click "Style" to customize the rolling subtitle style

Style

Home / Rolling Subtitles / Style

Rolling subtitle style test.

Font Bold ☒

Font Color ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

Font Size

Background Transparency

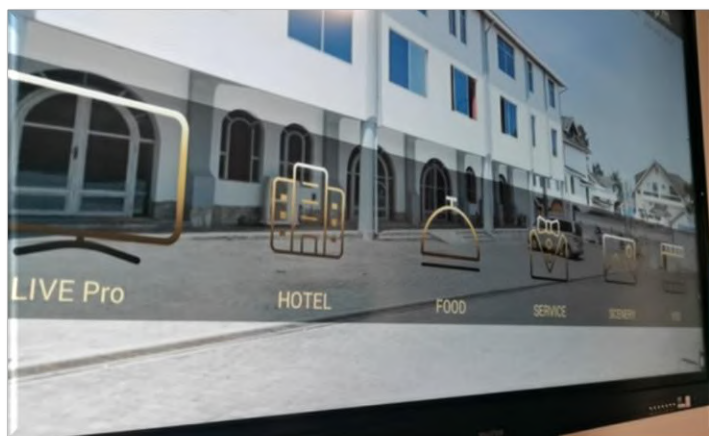
Background Color ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

Interval(minutes)

Submit Cancel

Also, this hotel IPTV system allows scrolling subtitles to be displayed automatically in the "boot" interface

After choosing the default language, another interface will be displayed as follows, we can see that this is the hotel logo, room number, background images, Wifi information, date information, and a menu bar below.



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Well, they are all customizable, from the hotel logo, room number, Wi-Fi account, date info, menu icon, and names to the background images, well, you can also upload a video instead.

And the menu bar is the most important part of this interface, it consists of 6 important sections that can help increase your hotel turnover.



For example, if you would like to inform the guests that there is a SPA room or canteen open for the guests, you can use the scrolling subtitles like "SPA room on the 3rd floor is now open with buffet and beverage at 7 p.m. to 10 p.m.", or, you can also inform the guest that the swimming pool on the 8th floor will be open at 2 p.m.

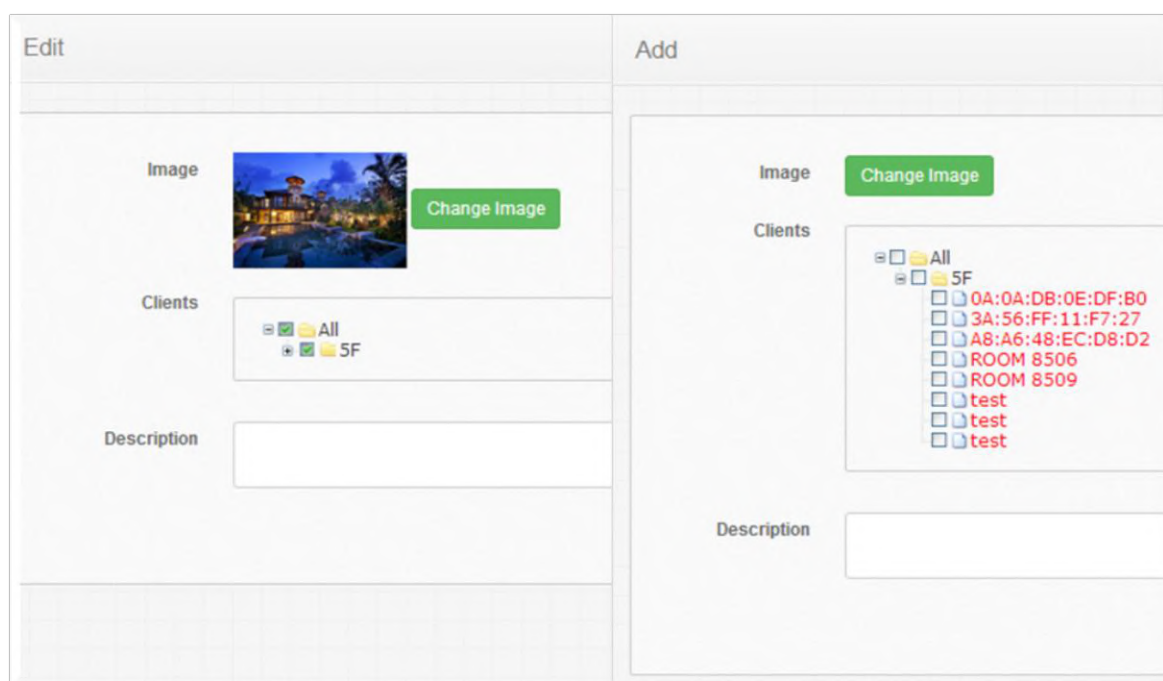
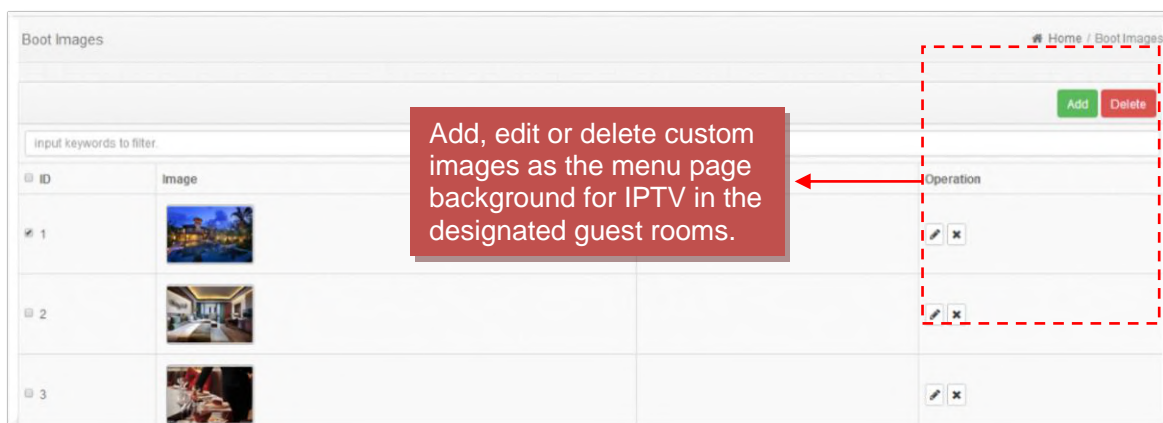
Classification #2 - Boot Images

NOTE: Administrator can only choose one between image advertisement and video advertisement.

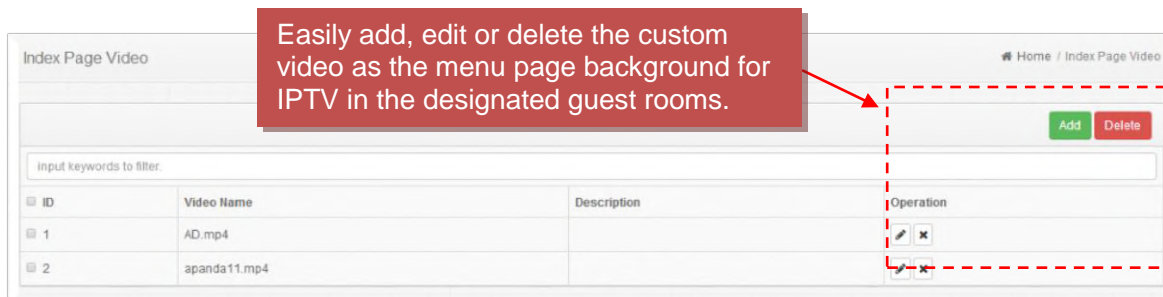


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Classification #3 - Index Page Video



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Edit Home / Index Page Video / Edit

AD.mp4

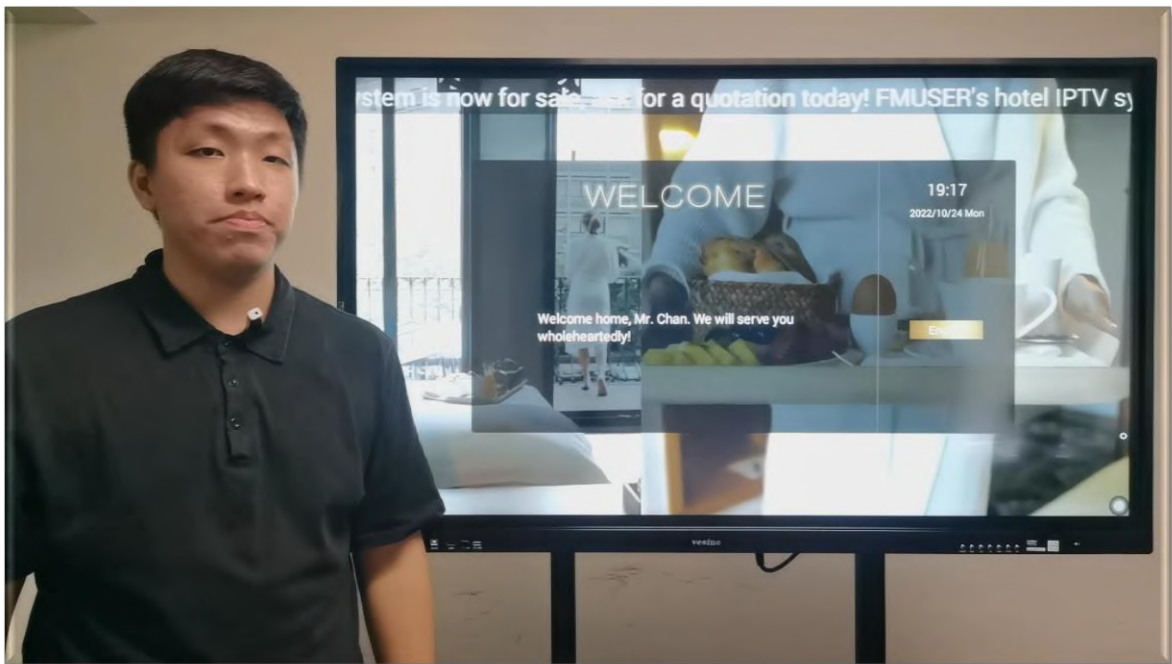
Image

Clients

- ☐ All
- ☒ SF
 - ☐ 0A:0A:D8:0E:DF:B0
 - ☐ 3A:56:FF:11:F7:27
 - ☐ A8:A6:48:EC:D8:D2
 - ☐ ROOM 8506
 - ☐ ROOM 8509
 - ☐ test
 - ☐ test
 - ☐ test

Description

Add, edit or delete the custom video as the start-up page background for IPTV in the designated guest rooms.



Classification #4 - Boot Video

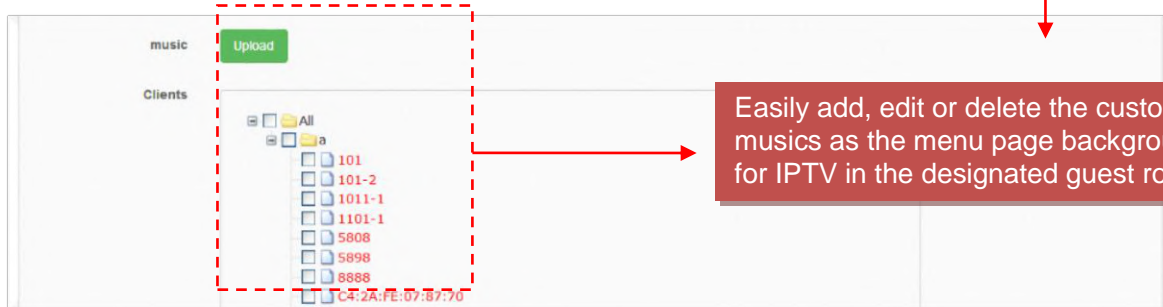
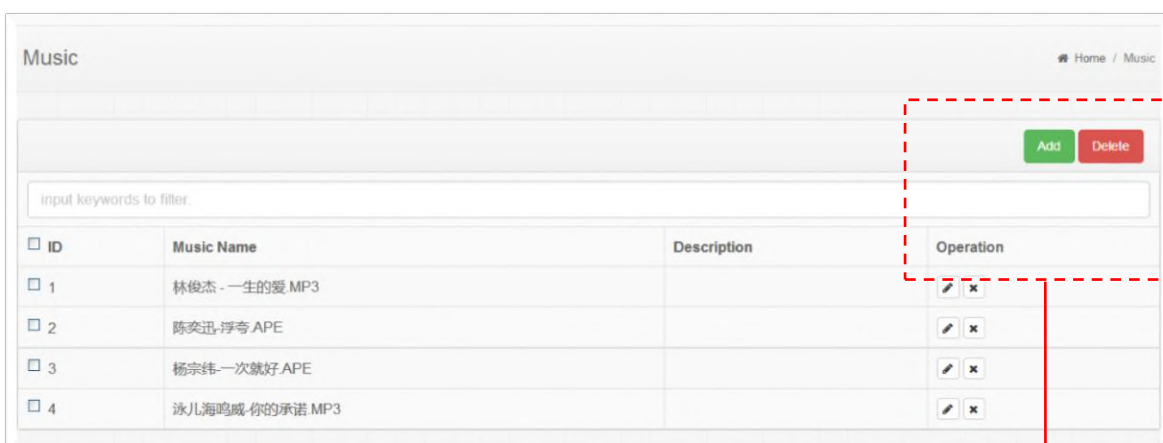
Boot Video Home / Boot Video

input keywords to filter:

ID	Video Name	Description	Operation
1	ironMan.mp4	boot video	<input type="button" value="edit"/> <input type="button" value="delete"/>
2	apanda11.mp4		<input type="button" value="edit"/> <input type="button" value="delete"/>

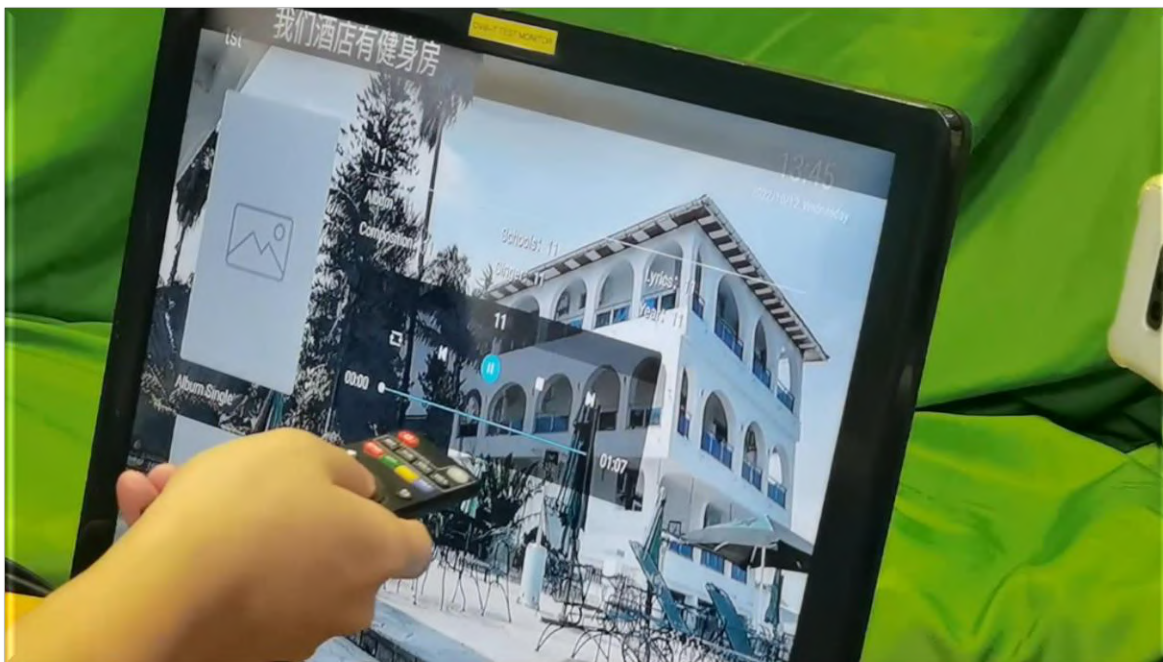


Classification #5 - Music



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The “Custom” Section

★ Custom >
Welcome Words
Hotel Information
Hotel
Food Type
Food
Goods
Goods Record
Scenery

This column can be made to different customized content for meeting different demands.

Administrator can edit English or Chinese welcome words here. Administrator can classify or name rooms here.

Administrator can edit the room information here.

Administrator can edit food types here.

Administrator can edit food information here. Administrator can edit goods information here.

Administrator can check the goods rental records here.

Administrator can edit scenery information here.

Classification #1 - Welcome Words

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IPTV Hardware & Content Management System



Welcome Words			Home / Welcome Words
			Add
ID	Welcome Words(Chinese)	Welcome Words(English)	Operation
1	%%: 欢迎入住悦庭酒店, 祝您旅途愉快!	%%: Welcome to YueTing Hotel!	Edit Delete

Add

Home / Welcome Words / Add

ID: input a number for sorting.

Clients: ☐ All ☒ 5F

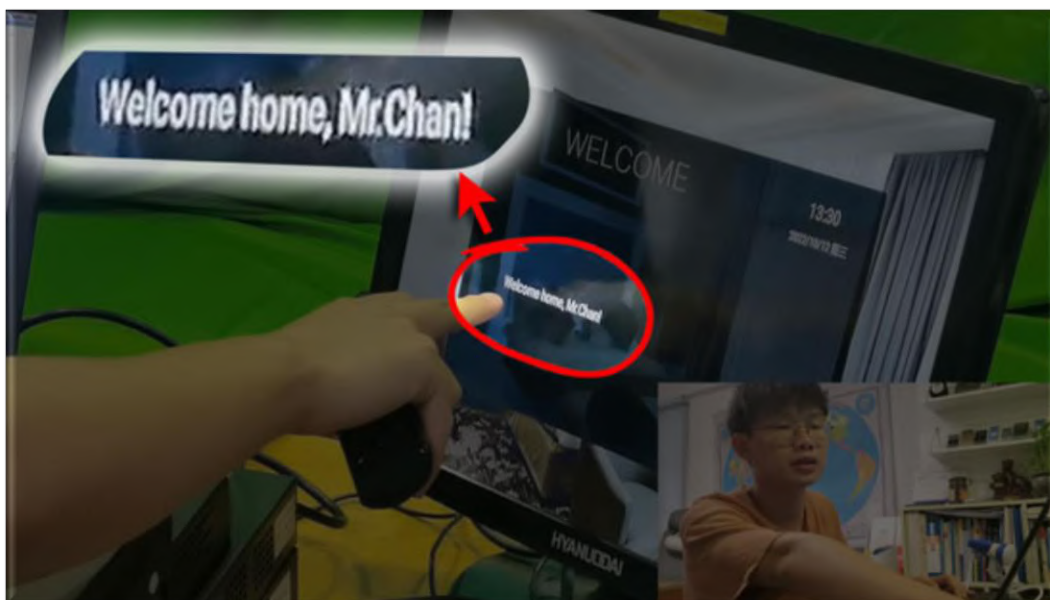
Welcome Words(Chinese): 使用%%表示客户名称, 如尊敬的%%

Welcome Words(English): use %% to replace customer name for example "Dear Mr.Chan"

[Submit](#) [Cancel](#)

Easily add, edit or delete the custom welcome words in the start-up page background for IPTV in the designated guest rooms.

Once your guest power on the IPTV system in the guest rooms, they will see a boot interface. Well, the boot interface allows you to customize welcome words, backgrounds, and scrolling subtitles. You can easily customize your guests' names and designate their names on the content management system of your hotel IPTV system.



Hotel IPTV Solution

IPTV Hardware & Content Management System



You can also customize any videos or images about your hotel in the background, and once the guests turn on the TV, the first view they will see besides the welcome words is your hotel's promotional video or image. Well, for me, I would suggest a video, because it is much more shocking than images!

Classification #2 – Hotel (Hotel Information and Hotel)

ID	Name	Operation
1	Room Introduction	[edit] [delete]
2	Hotel Introduction	[edit] [delete]
3	Parking Lot	[edit] [delete]
4	Dinning Room Introduction	[edit] [delete]
6	Bar	[edit] [delete]
7	Coffee	[edit] [delete]
8	Gym	[edit] [delete]

Easily add, edit or delete the custom hotel information in the menu page


ID	Image	Name	Name	Description	Operation
1		Deluxe King Room	Room intro	Our hotel to the six floor on the fourth floor has a sweet and comfortable standard room, the room has two X2 meters 1.2 meters bed two zhang and a 32 inch LCD TV, each room has free wireless internet and 24 hour hot water service	[edit] [delete]
2		Deluxe Twin Room		Our hotel to the six floor on the fourth floor has a sweet and comfortable standard room, the room has two X2 meters 1.2 meters bed two zhang and a 32 inch LCD TV, each room has free wireless internet and 24 hour hot water service	[edit] [delete]
3		Hotel Conference			[edit] [delete]

Hotel IPTV Solution

IPTV Hardware & Content Management System



Edit Home / Hotel / Edit

Image  [Change Image](#)

Name

Hotel Information

Description

[Submit](#) [Cancel](#)

Name those special rooms in your hotel and earn extra revenue, fill in the blanks and let the guests know they are available!

The “Hotel Information” and “Hotel” function allows you to advertise your hotel and let different guests know where they can take a rest in your hotel.

You may ask your engineers to upload images and information in detail about each specific room or place for hotel publicity



For example, you can tell the VIP room guests that there are six rooms for the Parent-child area on the 2nd floor, what are the opening hours, what are the infrastructures inside, etc.

Hotel IPTV Solution

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Or, you can tell all the business room guests via this section that the Rooftop Bar is now open, and if you would like for socializing, we have prepared food and drinks at 10 p.m.

Well, for an extrovert, that would be such great news! And it can also help you advertise your hotel and stimulate people to spend more money inside your hotel.

Classification #4 – Food (Food and Food Type)

Food Type

Home / Food Type

ID	Name	Operation
1	Desserts	
2	Western-style food	

1

Click the "Add" to add food classifications and edit.

2

Create new classifications, edit them and submit. Then move to "food" menu.

Edit

Home / Food Type / Edit

ID: 1

Name: Desserts

Submit Cancel

Hotel IPTV Solution

IPTV Hardware & Content Management System



The screenshot displays the 'Food' management interface. At the top, there's a search bar labeled 'input keywords to filter'. Below it is a table with columns: ID, Image, Name, Price, Food Type, and Description. Two items are listed: 'Chocolate Mousse' (ID 1, Price \$56.0, Food Type Desserts) and 'Pan-fried Steak' (ID 2, Price \$0.0, Food Type Western-style food). To the right of the table is a 'Sale Count' column showing '24' for the first item. Above the table, there are 'Add' and 'Delete' buttons. A red dashed box highlights the 'Add' button and the 'Sale Count' column. A red arrow points from the 'Add' button to a text box that says 'Add new foods or edit ones.' Another red arrow points from the 'Delete' button to a text box that says 'Move to the editing page.'

Below the table is an 'Edit' form. It contains fields for 'Image' (with a 'Change Image' button), 'Name' (Chocolate Mousse), 'Price(\$)' (56.0), 'Food Type' (Desserts), and 'Description' (Western-style food). There are 'Submit' and 'Cancel' buttons at the bottom. A red dashed box highlights the 'Image' field and the 'Food Type' dropdown menu. A red arrow points from the 'Food Type' dropdown to a text box that says 'Easily add, edit or delete the custom food info including images, prices, descriptions. Select a food type you set earliest and submit the info.'

The "Food" function allows the guests to order food and drinks online by using a TV remote. This section contains a few food classifications such as local food, barbecue, etc.

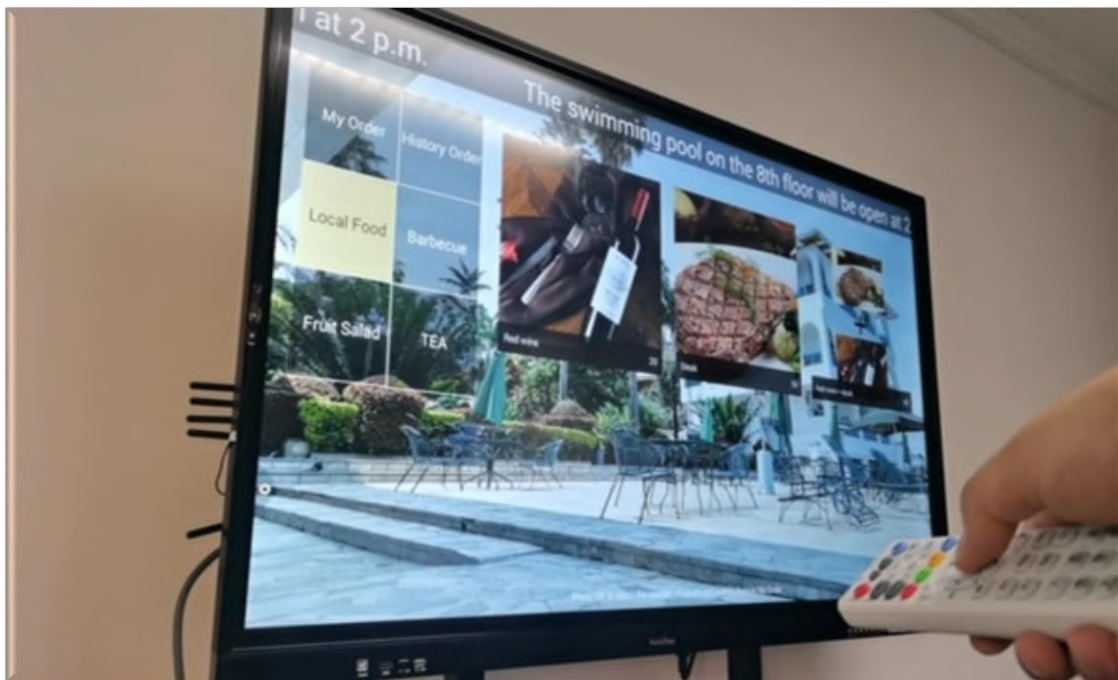


Hotel IPTV Solution

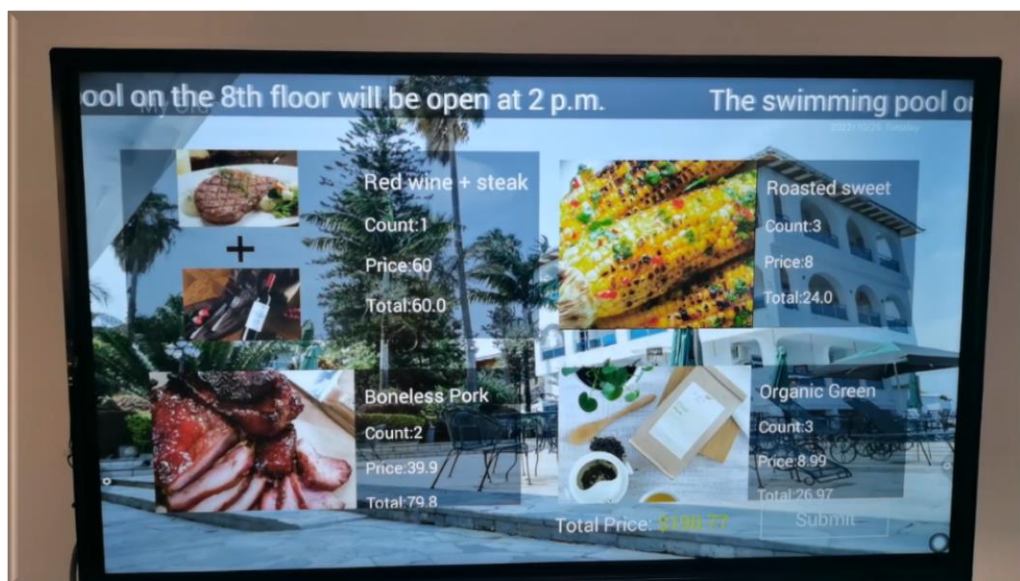
IPTV Hardware & Content Management System



You can customize them according to your hotel's food services. What is also customizable are the food images, prices, and order quantity. Well, a high-quality food image decides whether the guests order it or not. You can also lower the food price or set up a food combination of red wine and steak at 60USD to increase the turnover.



Between the classification, your customer can check what they have ordered now and what's been ordered a few hours ago in the "My order" and "History Order" parts. The guests will only need to press the "OK" button to select a specific quantity and submit the order.

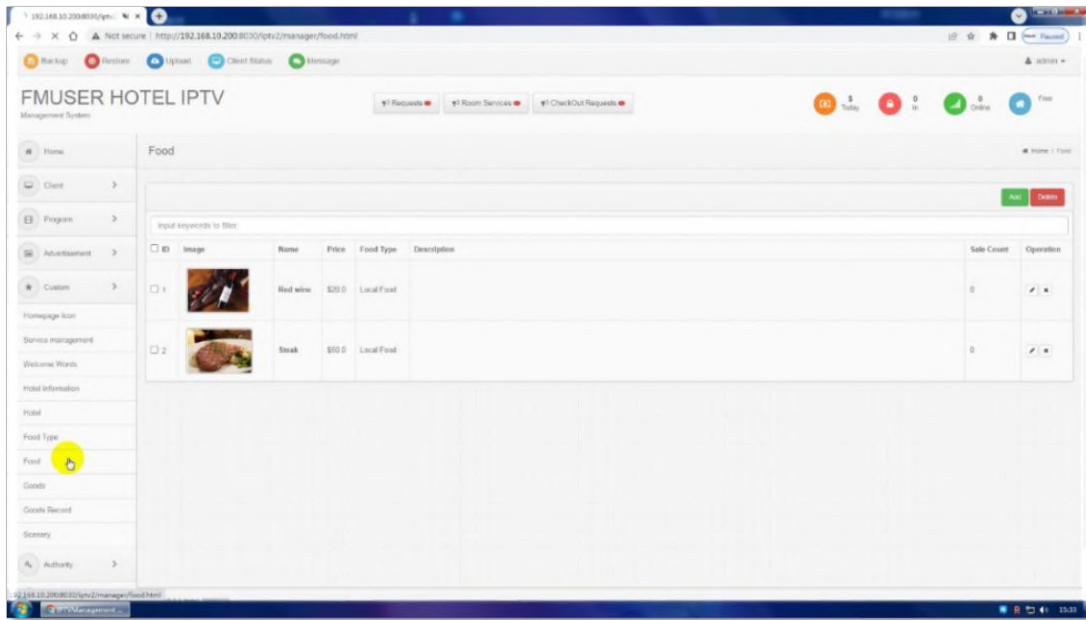


Hotel IPTV Solution

IPTV Hardware & Content Management System



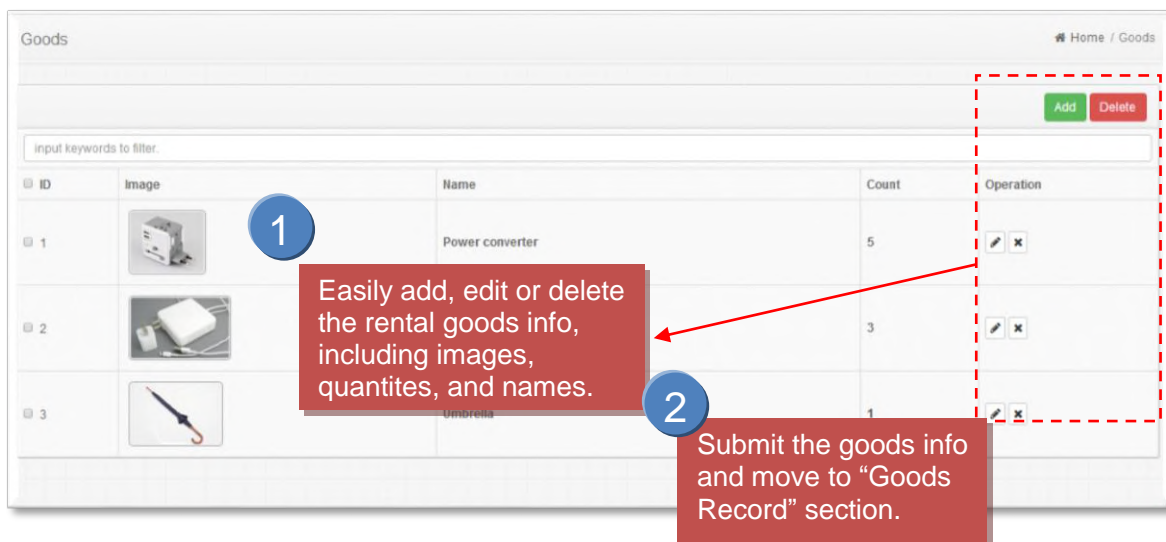
The order will then be sent to the IPTV management system which is monitored by the receptionists, after confirming the order, the food will be produced and delivered to the designated room.



After the food or drink is sent, please always remember to press "finish" in the management system to complete the order.

The "Food" section is one of the best sections in our system that can directly help you earn more money. You will need to upload the food images, price and classifications so that your guests are able to order them.

Classification #6 – Goods (Goods and Goods Record)



Goods Record

Home / Goods Record

Input keywords to filter:



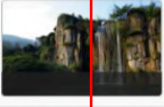






ID	Client Name	Customer	Service Name	Details	Oder Time	Response Time	Finished time	Status	Operation
1			Laundry Service		2017-11-10 10:12:09	2017-11-10 10:12:18	2017-11-10 10:12:20	Finish	Delete
2			Butler Service		2017-11-10 10:12:06	2017-11-10 10:12:16	2017-11-10 10:12:17	Finish	Delete
3					2017-11-10 10:09:22	2017-11-10 10:09:44	2017-11-10 10:09:45	Finish	Delete
4					2017-11-10 10:09:20	2017-11-10 10:09:42	2017-11-10 10:09:43	Finish	Delete
5			Wake Up Call	Wakeup Time: 2017-11-10 10:09:00	2017-11-10 10:09:14	2017-11-10 10:09:39	2017-11-10 10:09:41	Finish	Delete
6			Wake Up Call	Wakeup Time: 2017-11-06 14:06:00	2017-11-06 14:06:41	2017-11-07 17:44:30	2017-11-07 17:44:32	Finish	Delete
7			Goods Borrowing	Umbrella	2017-11-06 14:06:35	2017-11-07 17:44:27	2017-11-07 17:44:46	Returned	Delete
8			Goods Borrowing	Mobile phone charging line	2017-11-06 14:06:33	2017-11-07 17:45:07	2017-11-07 17:45:19	Returned	Delete

Use this panel to monitor, update, or delete goods borrowing and returning

Classification #7 – Scenery

Scenery

Home / Scenery

ID	Scenery Name	More Information	Operation
1	emai	   	Add Delete ✎ ✕
2	Mount	    	✎ ✕


Easily add, edit or delete the businesses nearby via images and text introductions.





Submit the info and edit more details.

Edit

Home / Scenery / Edit

Scenery Name: emai

Poster Image: 

Introduction:    

Change Image Submit Cancel

Click pictures to edit scenery introduction

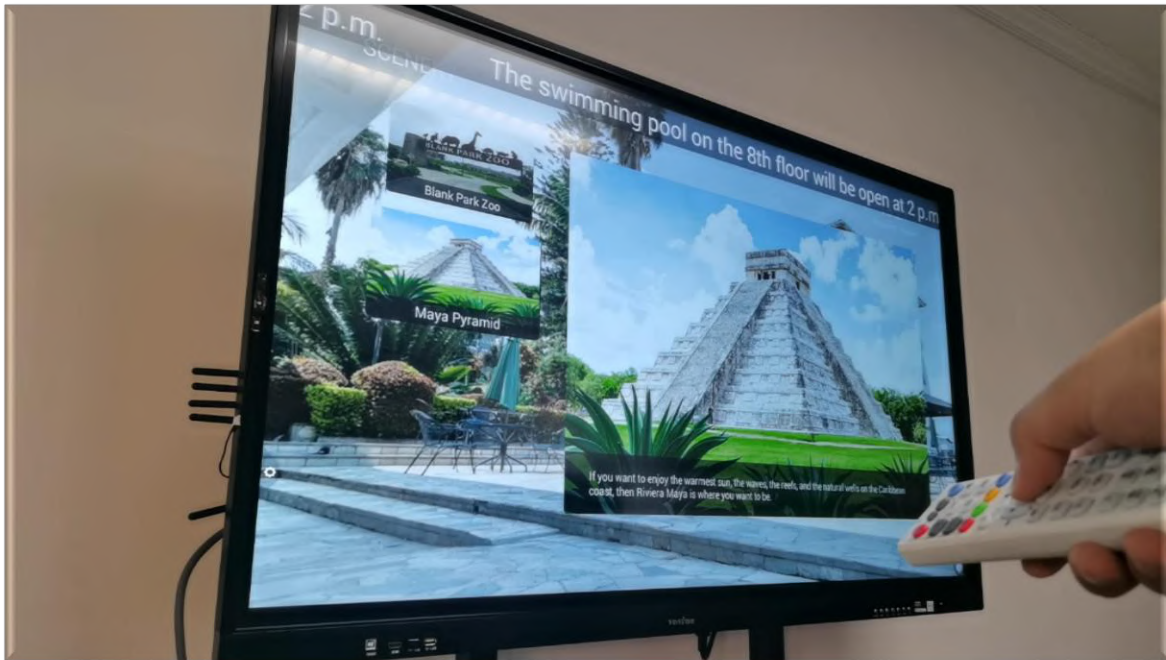
Click the images to add more images, or replace, or edit the text introduction.

Hotel IPTV Solution

IPTV Hardware & Content Management System



The "Scenery" function allows a customized introduction to scenic spots around your hotel.



To tell you the truth, this may be another best opportunity to increase the turnover and the popularity of the hotel. You may cooperate with the businesses around your hotel, for example, carnivals, sports center, and scenic area.



By uploading their information and earn for a consultant fee, and vice versa, the business may guide more guests to your hotel for accommodation after the guests have fun all day long.

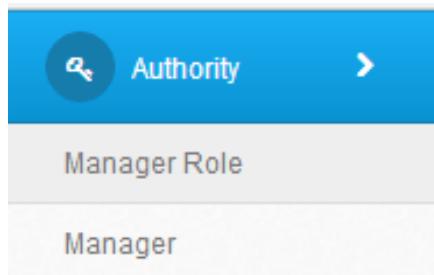
Hotel IPTV Solution

IPTV Hardware & Content Management System



It is an efficient way to more turnover and higher popularity.

The “Authority” Section



Administrators can distribute authority to back-stage manager.

Administrator can distribute role authority by this, and the defaulted role is Administrator. It owns the highest authority, and cannot be modified and deleted.

Administrator can create, edit and distribute the back-stage manager's login number; the defaulted manager name is “admin”, and password is

“123456”.

Classification #1 – Manager Role (Manager and Manager Role)

Administrators delete roles will lead to all accounts lose all authorities, and cannot be operated.

1 Click “Add” to add up management roles info to designated colleagues in “Manager Role”.

2 Fill in the blanks, authorize them with IPTV functions as your wish

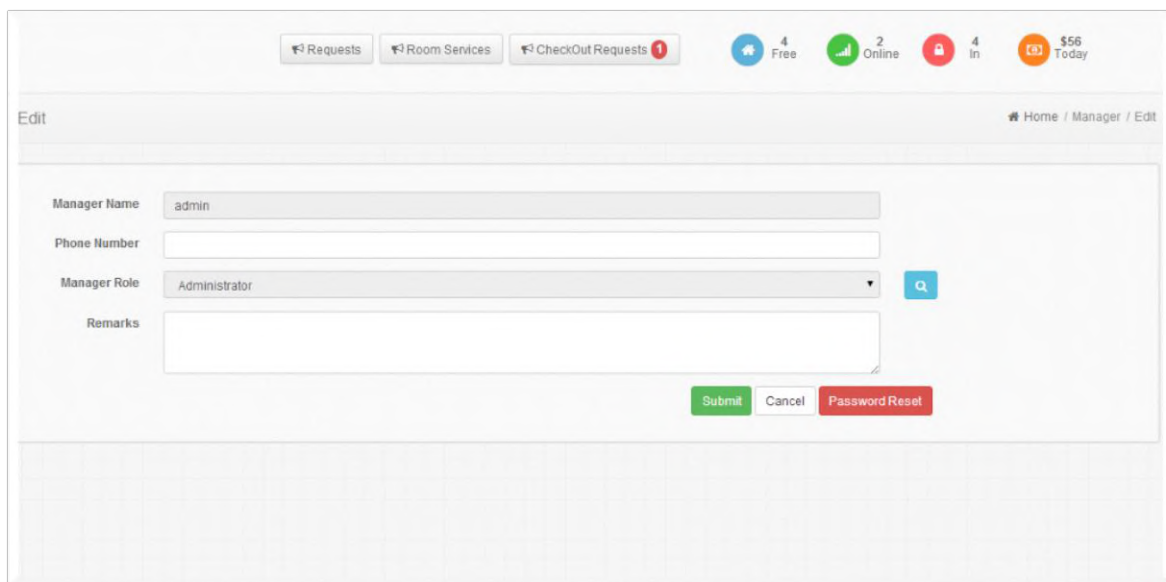
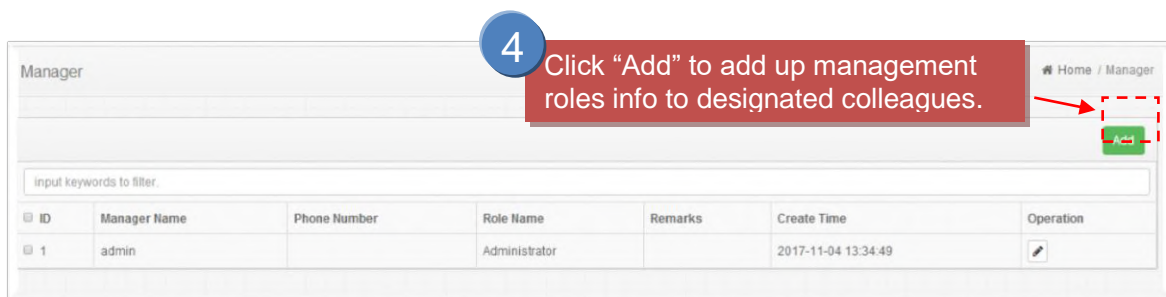
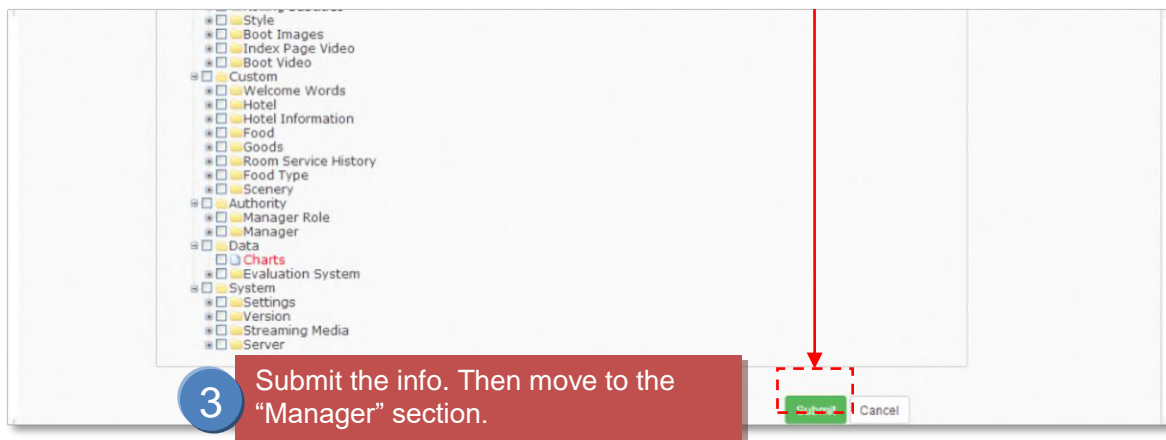
ID	Role Name	Description	Create Time	Operation
1	Administrator	System administrator , can not delete.	2017-11-04 13:34:49	

Role Name: input a name of manager role.

Description:

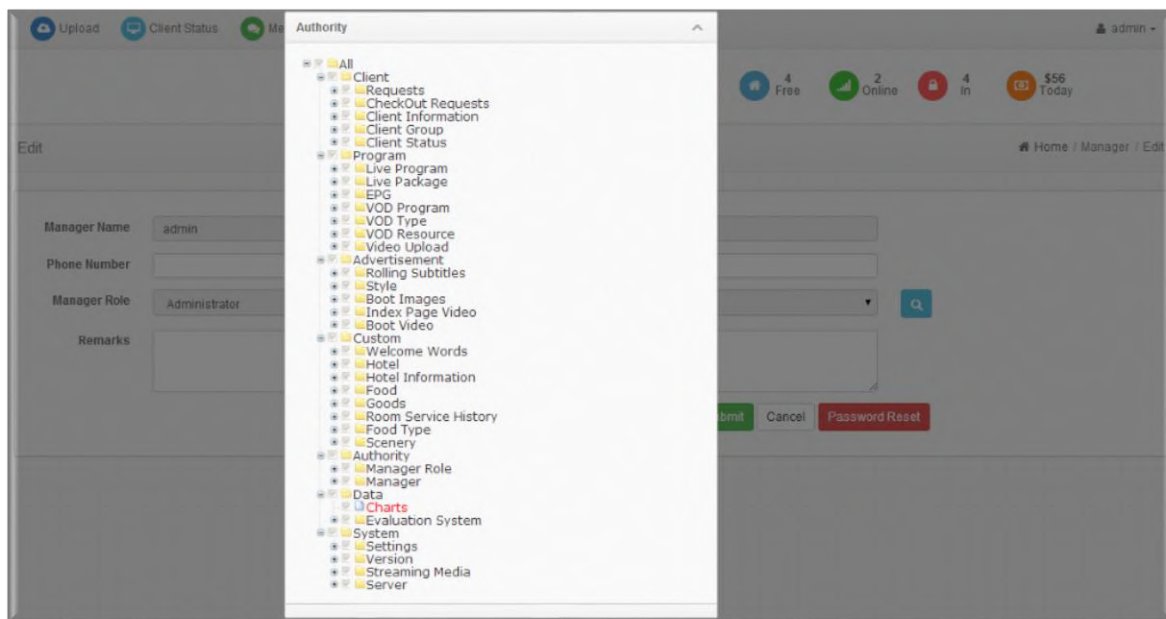
Authority:

- ☐ All
- ☐ Client
 - ☐ Requests
 - ☐ CheckOut Requests
 - ☐ Client Information
 - ☐ Client Group
 - ☐ Client Status
- ☐ Program
 - ☐ Live Program
 - ☐ Live Package
 - ☐ EPG
 - ☐ VOD Program
 - ☐ VOD Type
 - ☐ VOD Resource
 - ☐ Video Upload
- ☐ Advertisement
- ☐ Rolling Subtitles

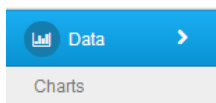


Hotel IPTV Solution

IPTV Hardware & Content Management System



The “Data” Section



Administrators can check data information here.

Administrators can check the turnover and VOD data on this interface.

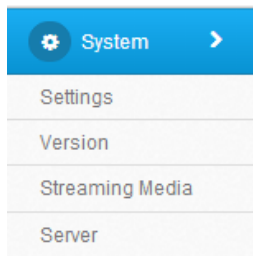
Classification #1 – Charts



The “System ” Section

Hotel IPTV Solution

IPTV Hardware & Content Management System



Administrator can set system common parameters, manage client version and check server status. Administrator can set system common parameters here.

Administrator can upload APK to update the STBs. Administrator can set the streaming media here .

Administrator can check server parameters status, including OS , internal memory , rigid disk, CPU, and network.

Classification #1 – Manager Role (Manager and Manager Role)

The screenshot displays the 'Settings' page of the Hotel IPTV Manager. The left sidebar contains navigation links: Home, Client, Program, Advertisement, Custom, Authority, Data, and System. The main content area is titled 'Settings' and includes a top bar with 'Backup', 'Restore', 'Upload', 'Client Status', and 'Message' buttons. The settings are organized into several sections:

- Operator Number:** 10000000
- Protocol of Live:** HTTP
- Live Playback Engine:** System Player
- Hotel Chinese Name:** (empty field)
- Hotel English Name:** (empty field)
- City:** 成都
- Monetary Unit:** \$
- Paid Days:** 1
- Phone number:** TEL 12345678
- Consumption Mode:** Prepaid consumption
- Home Page Show:** Scroll images
- Image change time:** 5
- Time Format:** yyyy-MM-dd HH:mm:ss
- Favorite Operation:** Clean the favorite folder when client check out
- Request ring:** Play (selected), Upload (disabled), please upload the mp3 file.
- Menu Visible:** VOD (checked), CBN (checked), 直播 (checked), Playback (checked), Hotel (checked), Dining (checked), Attractions (checked), Room Service (checked)
- PMS:** none

A 'Submit' button is located at the bottom right of the settings form.

Classification #2 – Version

Home	Version				
Client					
Program					
Advertisement					
Custom					
Authority					
Data					
System					
Settings					
Version					
Streaming Media					
Server					

File Name	Size	Version Name	Version Code	Time
iqiyi.apk	25.68 MB	7.3	58481	2019-03-01 08:52:52
iptv.apk	12.86 MB	1.0.5	100050	2019-06-19 10:54:29
cibn.apk	34.23 MB	2.0.6	2000006	2019-03-01 08:52:45

Classification #3 – Streaming Media

Note: this page is generally prohibited from modification, please contact the technical staff if it is changed.

Streaming Media

(Warning! This page is generally prohibited from modification. Please contact the technical staff if it changes)

Streaming IP

Streaming Port

Timeshift IP

Timeshift Port

Timeshift hours

Submit

Classification #4 – Server

Hotel IPTV Solution

IPTV Hardware & Content Management System



Server

Home / Server

OS

Architecture	Data Model	Description	Name	Version
x86_64	64	CentOS 7.2.1511	Linux	3.10.0-327.el7.x86_64

Memory

Total	Used	Free	Used Percent
15.47 GB	1.53 GB	13.94 GB	8%

Rigid Disk

ID	Directory	Total	Used	Free	Avail	Used Percent
1	/dev/sda3	519.75 GB	18.22 GB	501.52 GB	501.52 GB	4%
2	/dev/sda2	4.99 GB	161.12 MB	4.83 GB	4.83 GB	4%

CPU

ID	Model	Basic Frequency	Cache Size	User	System	Combined	Idle
1	Xeon	2800MHz	20.00 MB	0%	0%	0%	100%
2	Xeon	2800MHz	20.00 MB	0%	0%	0%	100%
3	Xeon	2800MHz	20.00 MB	0%	2%	2%	97%
4	Xeon	2800MHz	20.00 MB	0%	0%	0%	100%
5	Xeon	2800MHz	20.00 MB	0%	0%	0%	100%
6	Xeon	2800MHz	20.00 MB	0%	0%	0%	100%
7	Xeon	2800MHz	20.00 MB	0%	0%	0%	100%
8	Xeon	2800MHz	20.00 MB	0%	1%	1%	98%
9	Xeon	2800MHz	20.00 MB	0%	0%	0%	100%
10	Xeon	2800MHz	20.00 MB	0%	0%	0%	100%
11	Xeon	2800MHz	20.00 MB	0%	0%	0%	100%
12	Xeon	2800MHz	20.00 MB	0%	0%	0%	100%
13	Xeon	2800MHz	20.00 MB	0%	2%	2%	98%
14	Xeon	2800MHz	20.00 MB	2%	2%	4%	95%
15	Xeon	2800MHz	20.00 MB	2%	0%	2%	97%
16	Xeon	2800MHz	20.00 MB	0%	2%	2%	98%

Net

ID	Device Name	Device Name	IP	Subnet Mask	Type	Receive Packets	Receive Bytes	Transmit Packets	Transmit Bytes
1	lo	00:00:00:00:00:00	127.0.0.1	255.0.0.0	Local Loopback	12155941	1833356604	12155941	1833356604
2	em1	C8:1F:66:D5:D7:85	192.168.59.199	255.255.255.0	Ethernet	2578792323	3512291897115	3565	1727660
3	em2	C8:1F:66:D5:D7:86	192.168.58.199	255.255.255.0	Ethernet	113924523	10430252476	155990280	214197156590
4	em3	C8:1F:66:D5:D7:87	192.168.200.199	255.255.255.0	Ethernet	471480250	379819521382	218287244	303372072405
5	em4	C8:1F:66:D5:D7:88	192.168.5.200	255.255.255.0	Ethernet	0	0	0	0

WEB NMS System Operation

User can only control and set the configuration in computer by connecting the device to web NMS Port. User should ensure that the computer's IP address is different from the NDS3508F's IP address; otherwise, it would cause IP conflict.

System Login

The default IP of this device is 192.168.200.136:3333 (3333 is IP port number which can't be changed)

Connect the PC (Personal Computer) and the device with net cable, and use ping command to confirm they are on the same network segment.

Hotel IPTV Solution

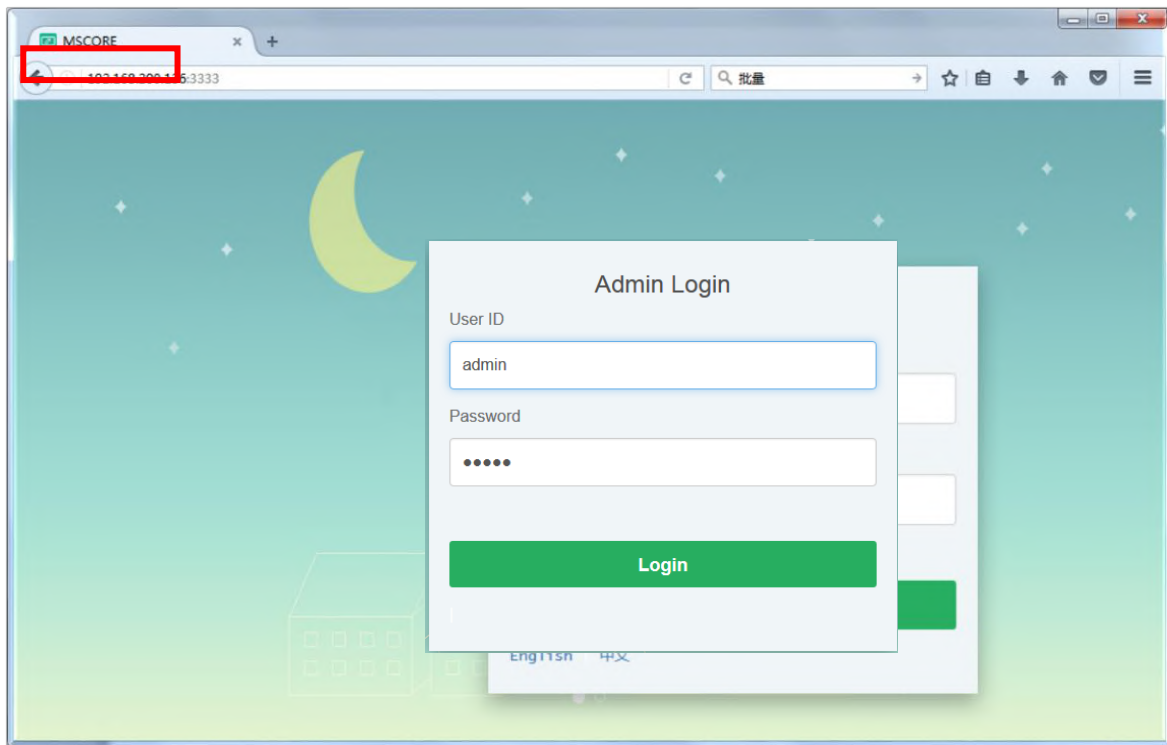
IPTV Hardware & Content Management System



I.G. the PC IP address is 192.168.200.136, we then change the device IP to 192.168.200.xxx (xxx can be 0 to 255 except 136 to avoid IP conflict).

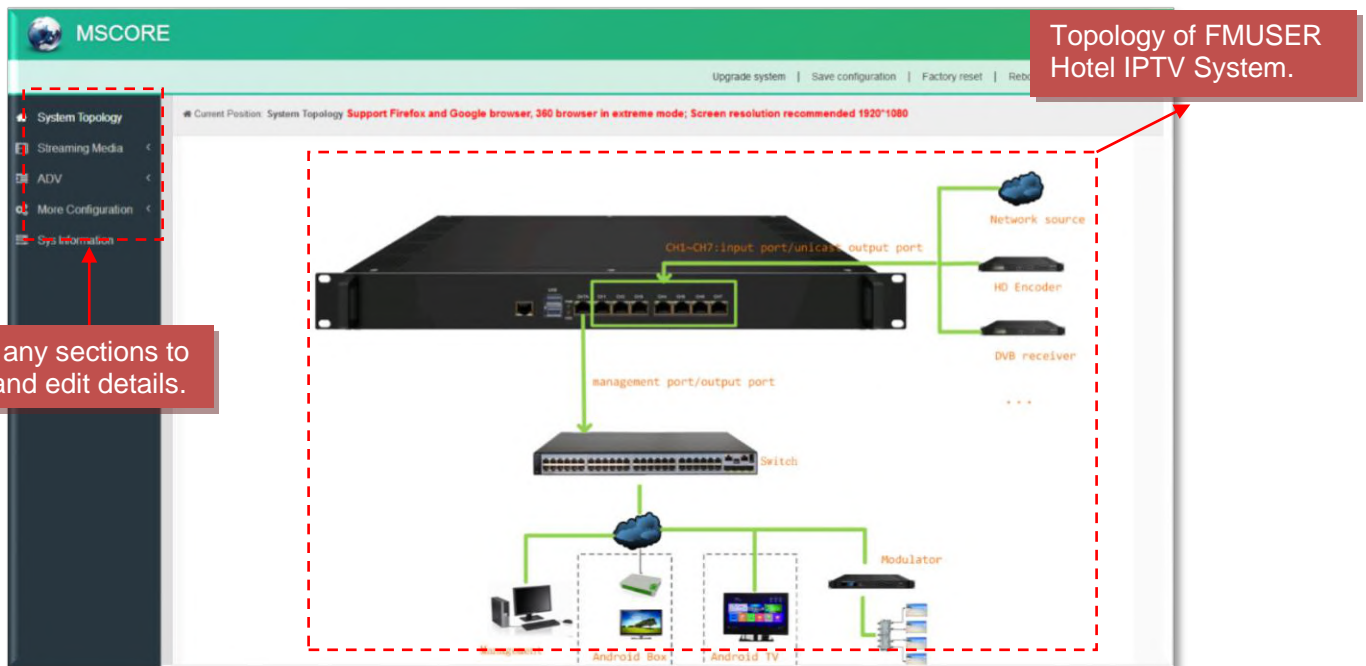
Use web browser to connect the device with PC by inputting this device's IP address in the browser's address bar and press Enter.

It displays the Login interface as Figure-1. Input the Username and Password (Both the default Username and Password are "admin".) and then click "Login" to start the device setting.



The “System Chart” Section

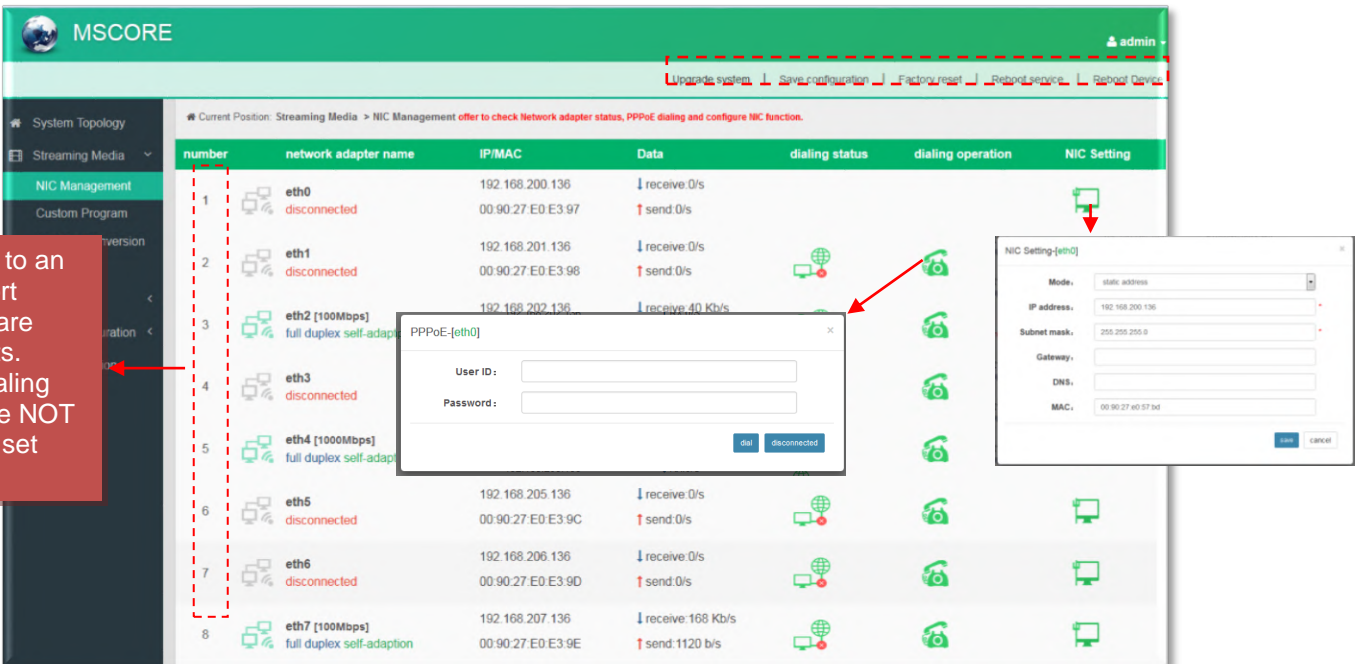
When we confirm the login, it displays the status interface where users can have an overview of system chart.



The “Streaming Media” Section

Classification #1 - NIC Management

From the menu on left side of the webpage, clicking “NIC Management”, it displays the interface where users can set the dialing and NIC parameters. (If users want to use dialing function, please contact with local operators.) (Figure-3)



Only #1 refers to an output data port while the rest are input data ports. Meanwhile, dialing parameters are NOT allowed to be set manually.

number	network adapter name	IP/MAC	Data	dialing status	dialing operation	NIC Setting
1	eth0 disconnected	192.168.200.136 00:90:27:E0:E3:97	↓ receive: 0/s ↑ send: 0/s			
2	eth1 disconnected	192.168.201.136 00:90:27:E0:E3:98	↓ receive: 0/s ↑ send: 0/s			
3	eth2 [100Mbps] full duplex self-adapt	192.168.202.136	↓ receive: 40 Kb/s			
4	eth3 disconnected					
5	eth4 [100Mbps] full duplex self-adapt					
6	eth5 disconnected	192.168.205.136 00:90:27:E0:E3:9C	↓ receive: 0/s ↑ send: 0/s			
7	eth6 disconnected	192.168.206.136 00:90:27:E0:E3:9D	↓ receive: 0/s ↑ send: 0/s			
8	eth7 [100Mbps] full duplex self-adaption	192.168.207.136 00:90:27:E0:E3:9E	↓ receive: 168 Kb/s ↑ send: 1120 b/s			

NIC Setting-[eth0]

Mode: static address

IP address: 192.168.200.136

Subnet mask: 255.255.255.0

Gateway:

DNS:

MAC: 00:90:27:E0:E3:94

del disconnected

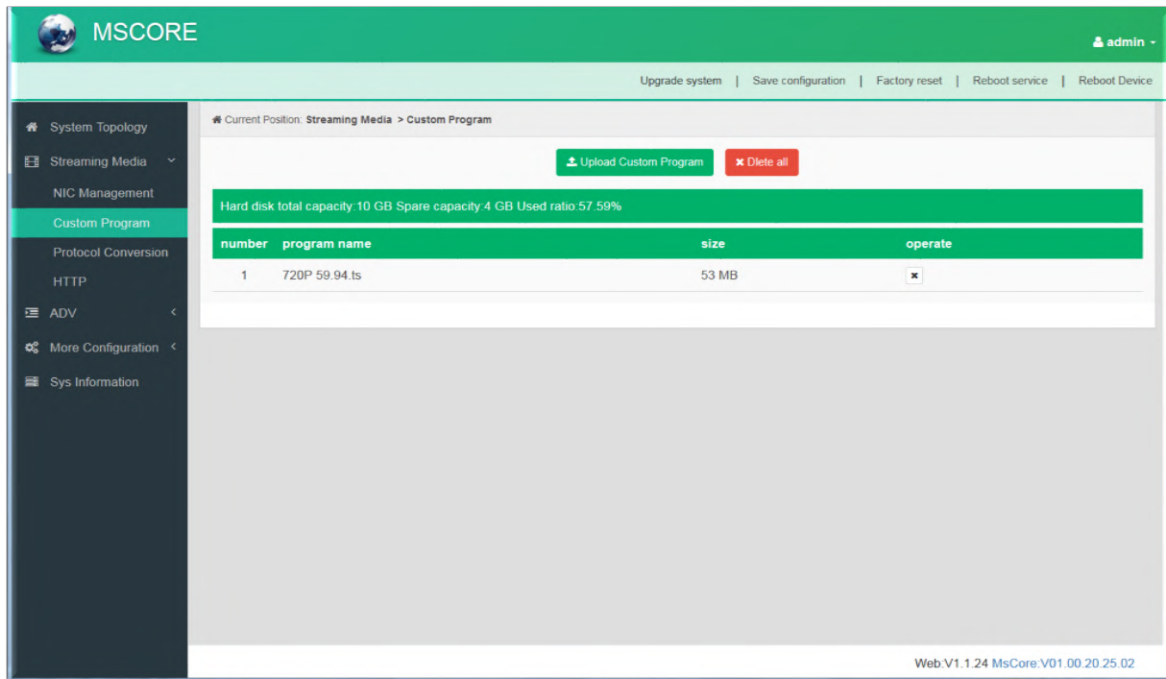
Hotel IPTV Solution

IPTV Hardware & Content Management System



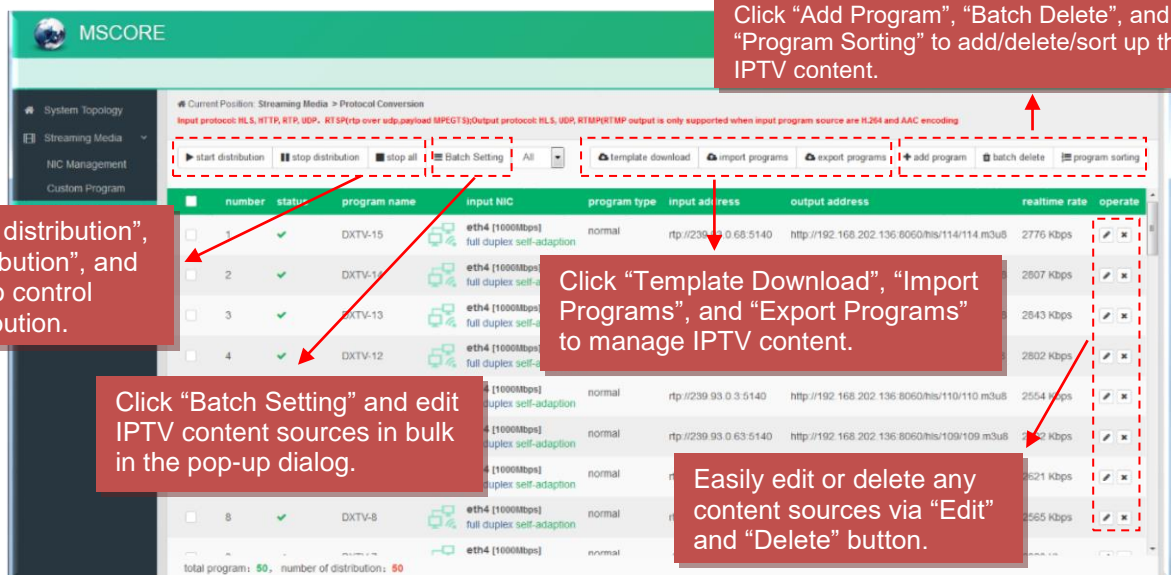
Classification #2 - Custom Program

Clicking Custom Program”, it displays the interface where users can upload TS files from local sources for distributing programs. (Figure-4)



Classification #3 - Protocol Conversion

Clicking “Protocol Conversion”, it displays the interface where users can set protocol conversion parameters and add programs from CH1-7. Input protocol supports HLS, HTTP, RTP, UDP, RTSP (RTP over UDP, payload MPEGTS). Output supports HLS, UDP, RTMP (RTMP is only supported when input sources are H.264 and AAC encoding.) Output address can't be changed when selecting HLS as output protocol. (Figure-5)



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Batch Setting

program type:

normal

Anti-jitter:

disable

input NIC:

Keep

output protocol:

UDP

eth1

eth2

eth3

eth4

eth5

eth6

eth7

Keep

normal

PPPoE

Keep

disable

enable

Keep

UDP

HLS

RTMP

Keep

Submit

Cancel

edit program info

program name:

eg,CCTV1

program type:

normal

Anti-jitter:

disable

input NIC:

eth1

output protocol:

UDP

input address:

eg,rtp://239.93.0.100:5140

output address:

udp://224.3.3.2:10002

eth1

eth2

eth3

eth4

eth5

eth6

eth7

UDP

HLS

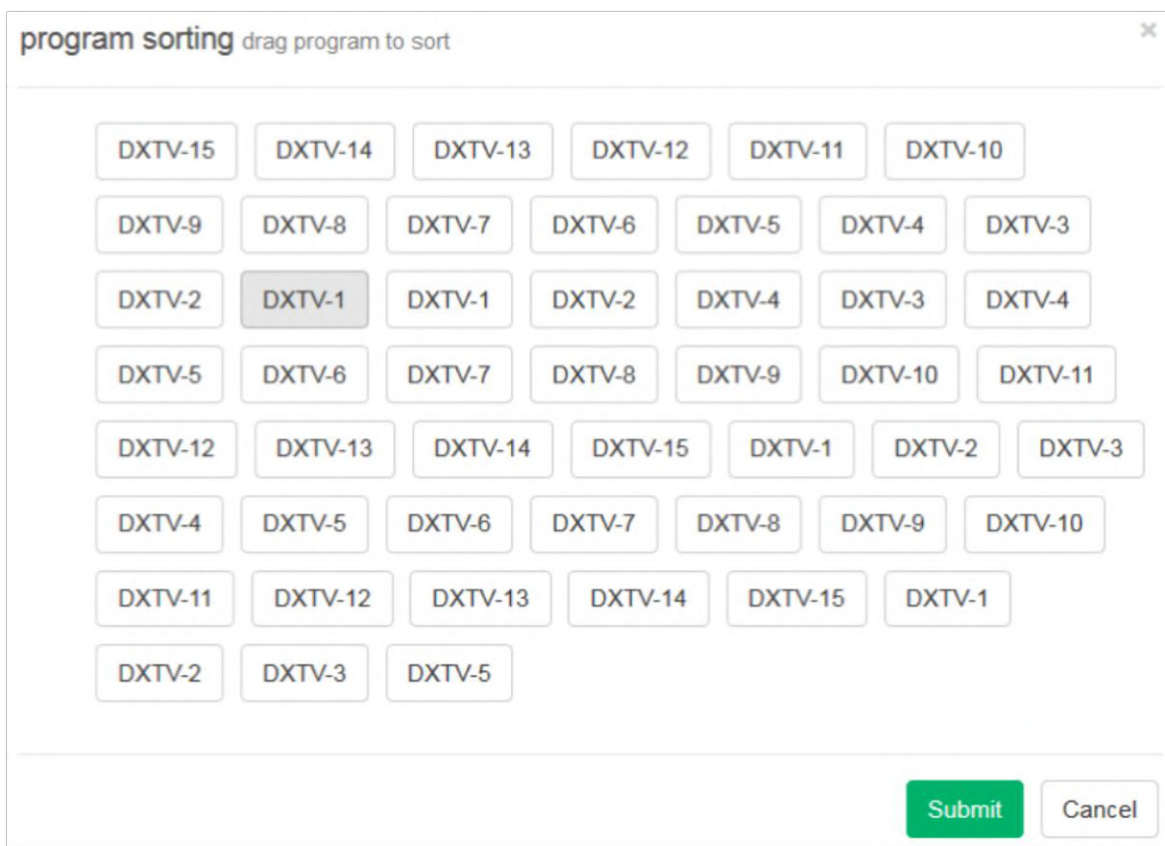
RTMP

Submit

Cancel

*Anti jitter can output smoothly and re-package, but it will consume more system resources. Please use caution.

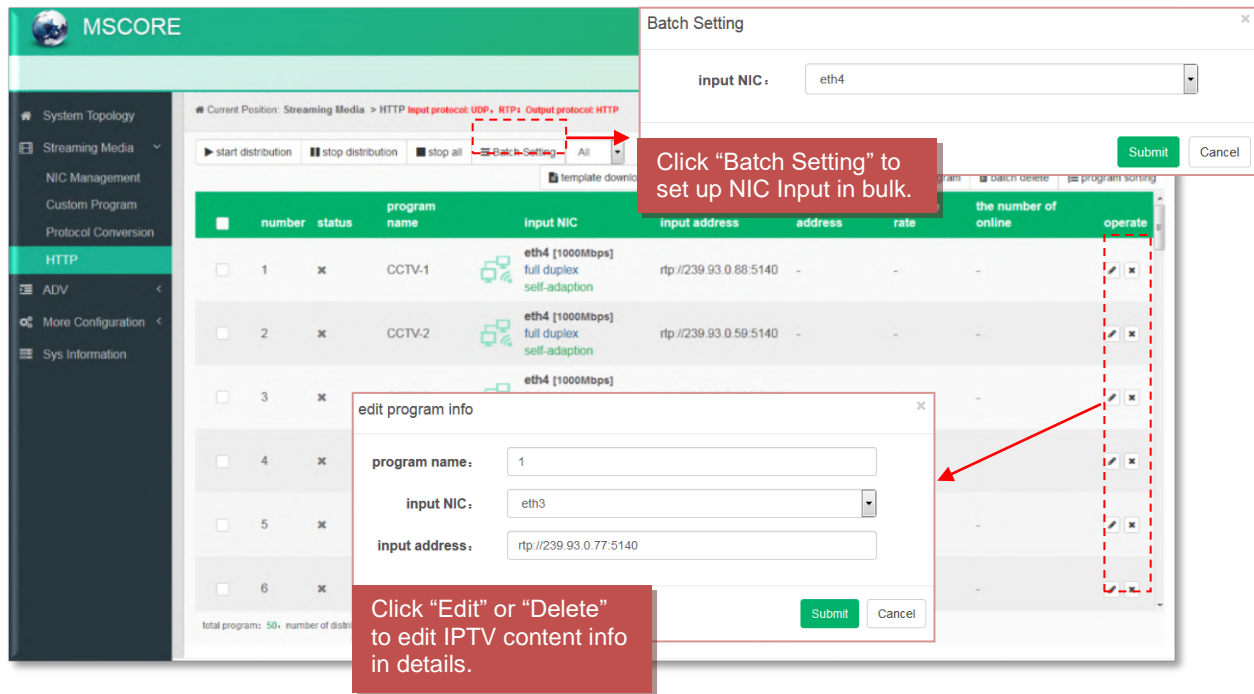
*when output protocol is RTMP, input protocol only supports UDP and RTP .



Classification #4 - HTTP

Clicking “HTTP”, it displays the interface where users can set the HTTP parameters. HLS, HTTP and RTSP can’t be converted into HTTP directly, but UDP and RTP can be converted into HTTP. The setting principle is same as “Protocol Conversion”. (Figure-6)

Note: If users want to IP out over HTTP, they need to convert HLS/HTTP/RTSP into UDP/RTP, and then converting UDP/RTP into HTTP.

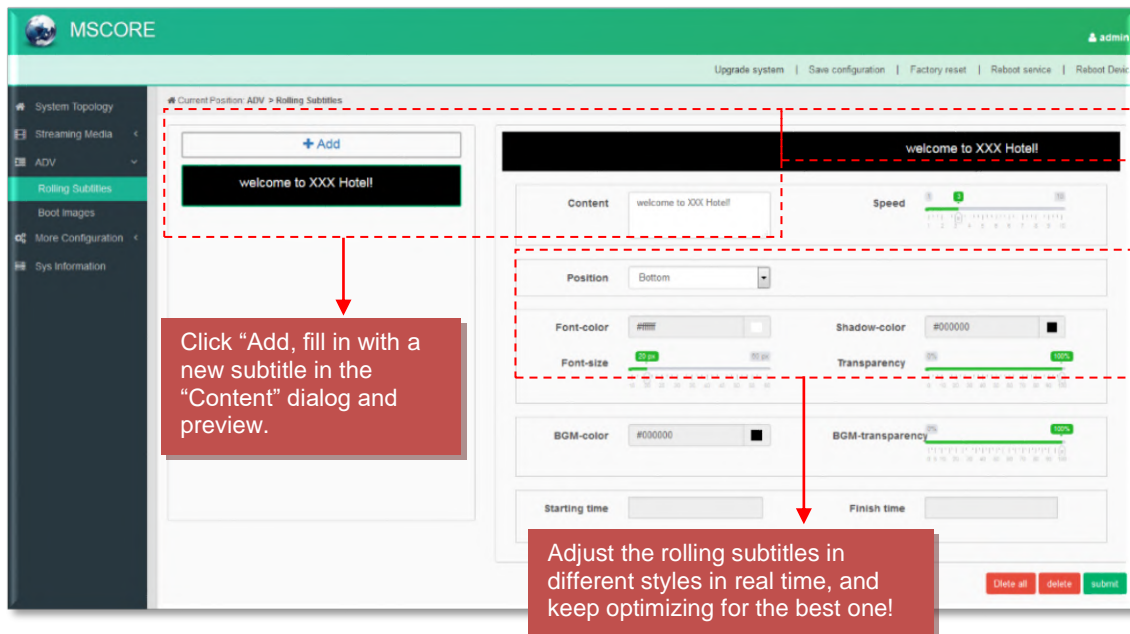


The “ADV” Section

Classification #1 - Rolling Subtitles

ADV function is only applicable to IP out application and the STB and TV must be installed FMUSER IPTV APK.

Clicking “Rolling Subtitles”, it displays the interface where users can add rolling subtitles and set subtitles’ parameters. After submitting, rolling subtitles will appear when playing programs. (Figure-7)



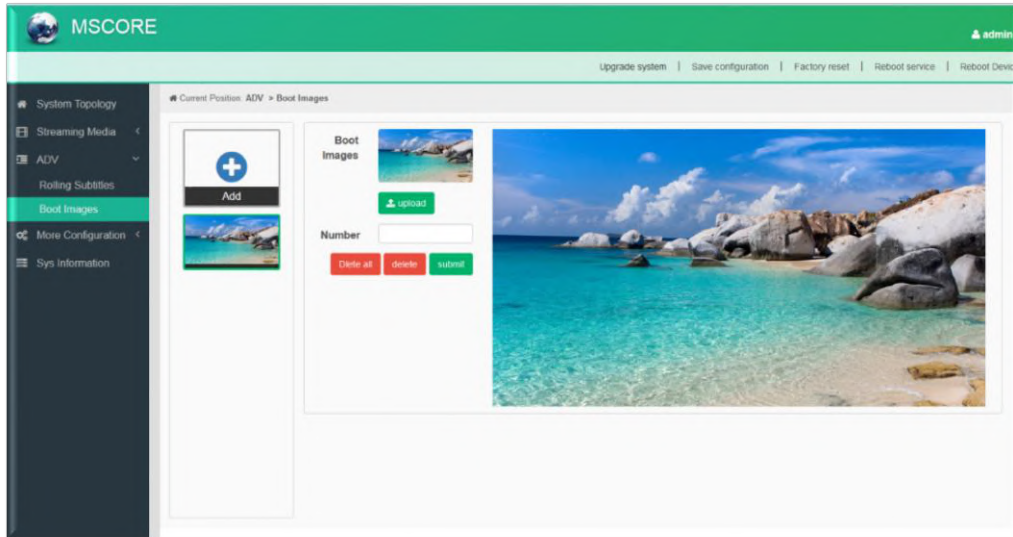
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Classification #2 - Boot Images

Clicking “Boot Images”, it displays the interface where users can add boot images. Click “Add” and then upload it. After submitting, boot images will appear when starting FMUSER IPTV APK. (Figure-8)



The “More Configuration” Section

Classification #1 – System Setting

Protocol Conversion
HTTP

Consists of “Protocol conversion” and “HTTP”, please choose one as the content source.

Client protocol: Protocol Conversion

Unicast output port: eth0

Client Player Setting: MS Player

Client exit setting: enable

Subtitle Interval: 3 m

Boot Setting: Boot Images

Interval: 3 s

Welcome Words Setting: enable

Welcome Words:

eth0
eth1
eth2
eth3
eth4
eth5
eth6
eth7

“eth0” refers to the data port, which allows UDP through, while “eth1-7” refer to CH1-CH7, which allows IP out over HTTP/HLS/RTMP.

Consists of “Boot Live”, “Boot Video” and “Boot Images”. “Boot Live” refers to accessing a live screen without images and videos while “Boot Video” & “Boot Images” refers to starting an APK with video or images.

Selecting “Enable” to allow the welcome words to be displayed as starting the IPTV APK.

refresh submit

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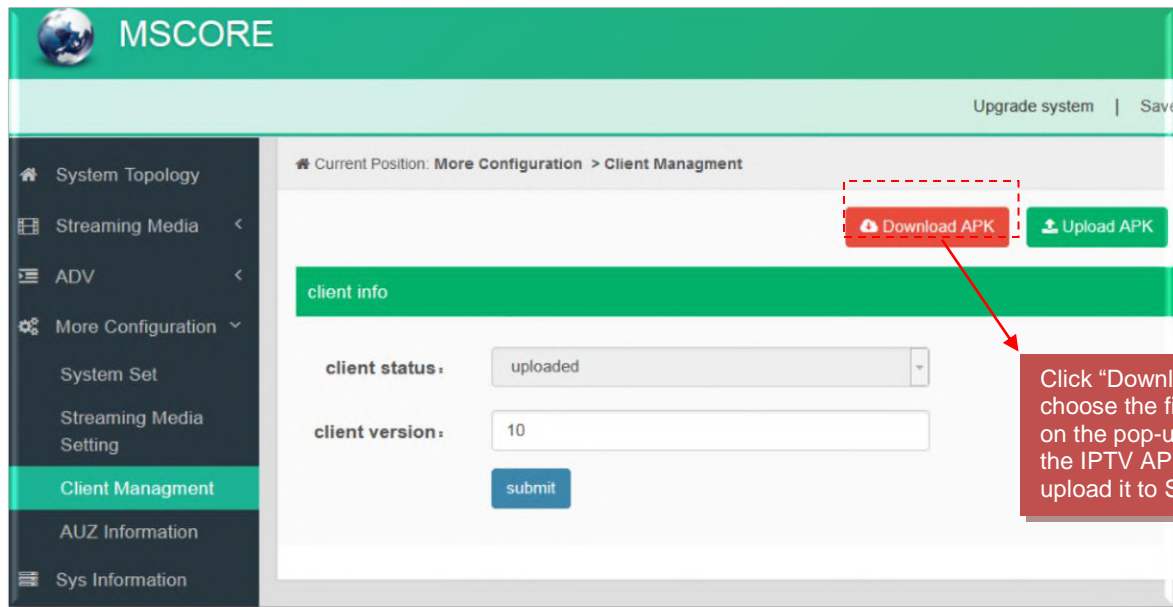
Select boot setting as “Boot Video” to upload boot video here and it will appear when starting FMUSER IPTV APK. Suggest the size of video file doesn't over 500M.

The interface shows a 'Boot Setting' dropdown menu with 'Boot Video' selected. Below it is a 'Power Video' section with a 'not uploaded' status, an 'uploading' button, and a 'delete' button. A red warning message states: '*Don't exceed 500M for Power video files;'. At the bottom are 'refresh' and 'submit' buttons.

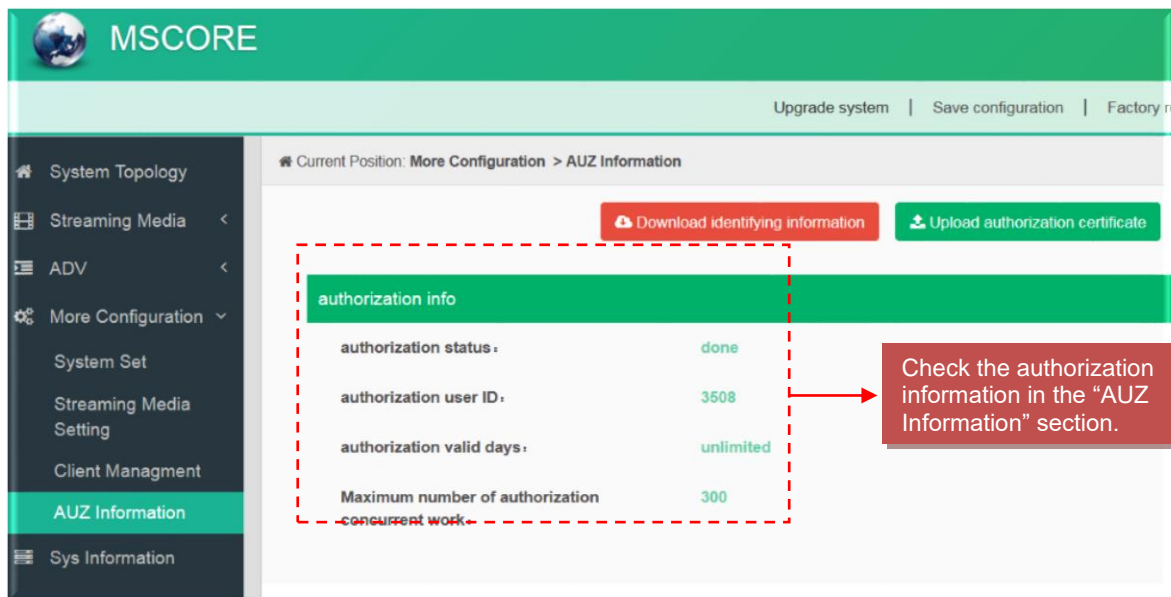
Classification #2 – Streaming Media Setting

The screenshot shows the 'Streaming Media Setting' page. The left sidebar contains navigation options: System Topology, Streaming Media, ADV, More Configuration, System Set, Streaming Media Setting (highlighted), Client Management, AUZ Information, and Sys Information. The main content area shows the 'Current Position: More Configuration > Streaming Media Setting' with a 'restart service to take effect' link. The settings include: IGMP Version (V1, V2 selected, V3), Streaming Media Parameters (Enable Router, Enable RTP OVER RTSP(TCP), Disable RTP CRC), and Restart Setting (Maintenance Frequency: Mor, Time: 05:00). A red dashed box highlights the 'Streaming Media Parameters' and 'Restart Setting' sections. A red arrow points from a text box to the 'Enable RTP OVER RTSP(TCP)' checkbox. The text box says: 'Start the parameters setting of your streaming media in the “Streaming Media Setting” section.' A 'Submit' button is at the bottom right.

Classification #3 – Client Management



Classification #4 – AUZ Information

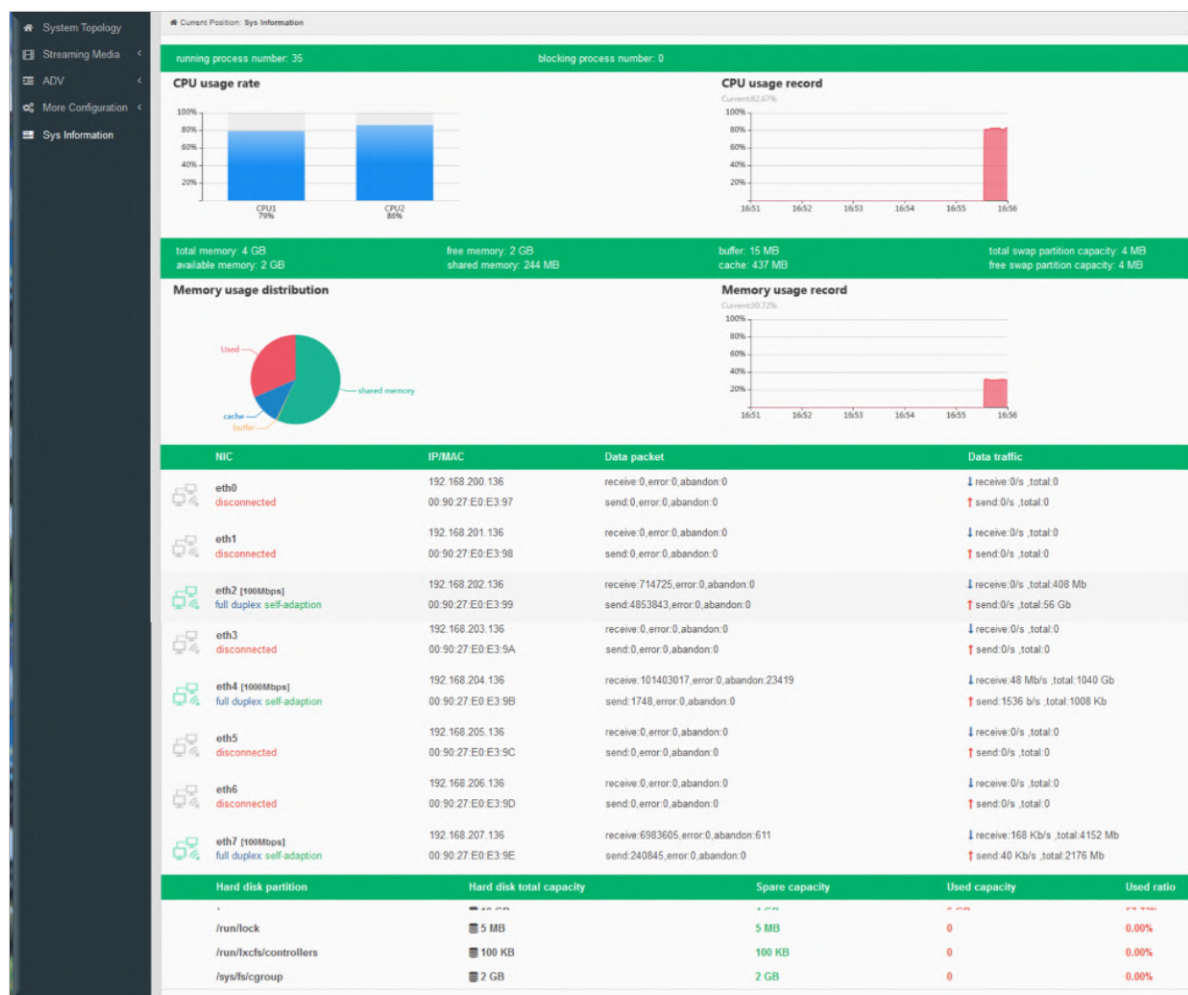


The “System Information” Section

The “System Information” allows the administrator to check the system condition such as CPU usage rate, CPU usage record, etc.

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IPTV Hardware & Content Management System



Troubleshooting

Our quality assurance system has been approved by CQC organization. For guarantee the products' quality, reliability and stability. All FMUSER products have been passed the testing and inspection before ship out factory. The testing and inspection scheme already covers all the Optical, Electronic and Mechanical criteria which have been published by FMUSER. To prevent potential hazard, please strictly follow the operation conditions.

Prevention Measure

1. Installing the device at the place in which environment temperature between 0 to 45 °C
2. Making sure good ventilation for the heat-sink on the rear panel and other heat-sink bores if necessary
3. Checking the input AC within the power supply working range and the connection is correct before switching on device
4. Checking the RF output level varies within tolerant range if it is necessary
5. Checking all signal cables have been properly connected

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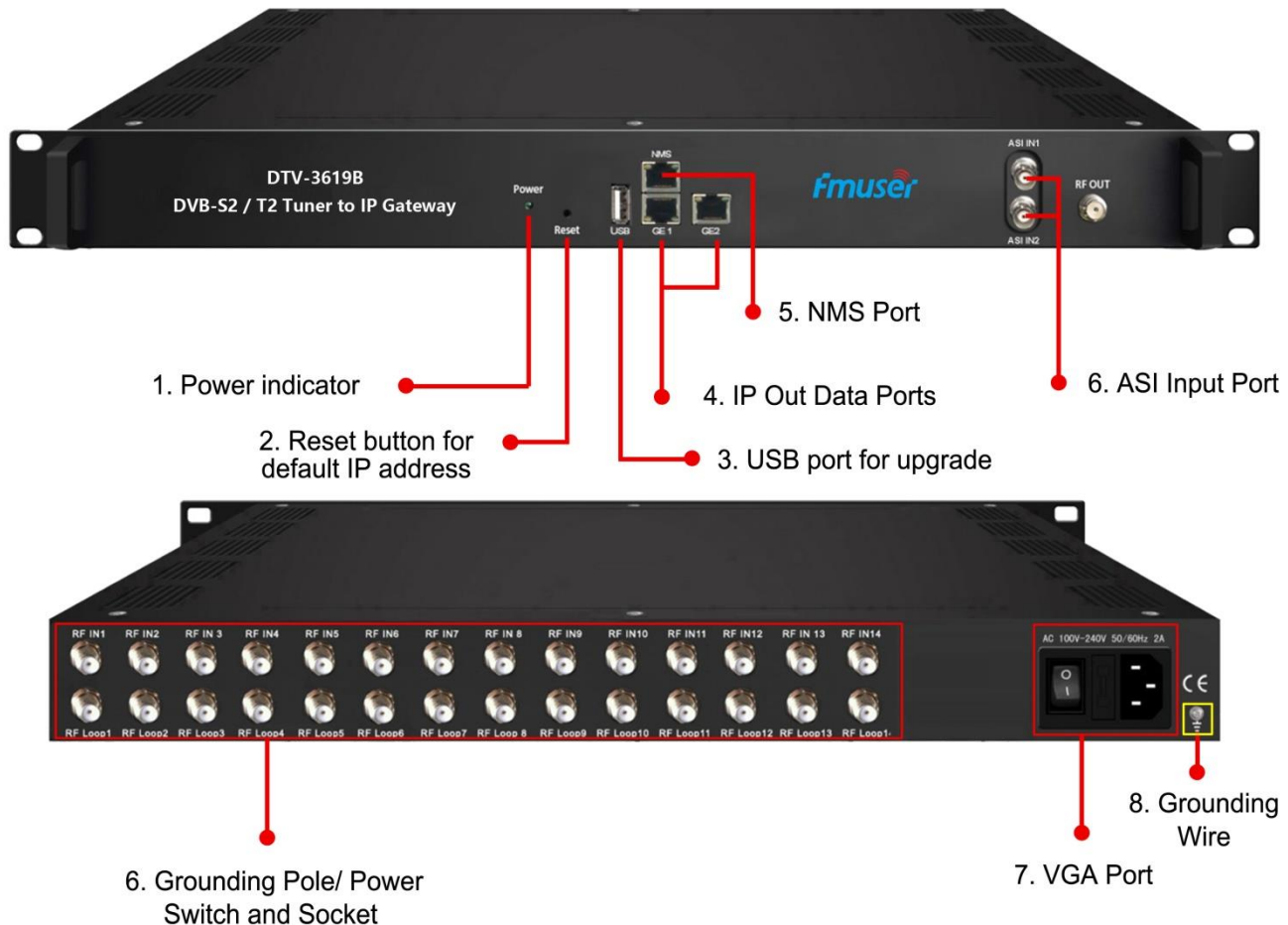


6. Frequently switching on/off device is prohibited; the interval between every switching on/off must greater than 10 seconds.

Conditions need to unplug power cord

- Power cord or socket damaged.
- Any liquid flowed into device.
- Any stuff causes circuit short
- Device in damp environment
- Device was suffered from physical damage
- Longtime idle.
- After switching on and restoring to factory setting, device still cannot work properly.
- Maintenance needed

FMUSER FBE304 Multi-Way Satellite IRD Receiver



Applications

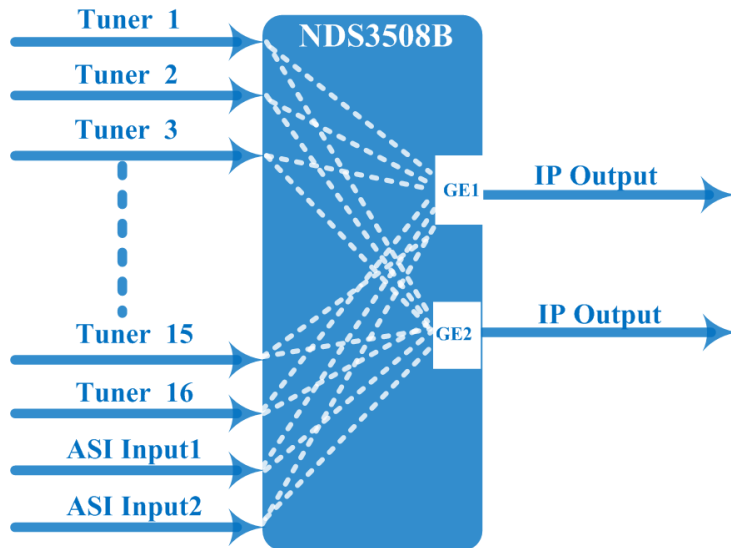
- Hospitality
- Communities
- Military
- Large cruise ships
- Prisons
- Schools

Hotel IPTV Solution

IPTV Hardware & Content Management System



General Description



This Tuner to IP Gateway is a head-end interface conversion device which supports MPTS and SPTS output switchable.

It supports 16 MPTS or 512 SPTS output over UDP and RTP/RTSP protocol. It is integrated with tuner demodulation (or ASI input) and gateway function, which can demodulate the signal from 16 tuners into IP package, or directly convert the TS from ASI input and tuner into IP package, then output the IP package through different IP address and ports.

BISS function is also embedded for tuner input to descramble your tuner input

programs.

Specification

Terms	Specs
Dimension	482mm×410mm×44mm (W×L×H)
Approx weight	3.6kg
Environment	0~45°C(work); -20~80°C (Storage)
Power requirements	100~240VAC, 50/60Hz
Power consumption	20W
BISS Descrambling	Mode 1, Mode E (Up to 850Mbps) (descramble individual program)
IP Output (512 SPTS)	512 SPTS IP mirrored output over UDP and RTP/RTSP protocol through GE1 and GE2 port (IP address and port number of GE1 and GE2 are different), Unicast and Multicast
IP Output (16 MPTS)	16 MPTS IP output (for Tuner/ASI passthrough) over UDP and RTP/RTSP protocol through GE1 and GE2 port, Unicast and Multicast
Standard (DVB-C)	J.83A(DVB-C), J.83B, J.83C
Frequency In (DVB-C)	30 MHz~1000 MHz
Constellation (DVB-C)	16/32/64/128/256 QAM
Frequency In (DVB-T/T2)	30MHz ~999.999 MHz
Bandwidth (DVB-T/T2)	6/7/8 M bandwidth
Input Frequency (DVB-S/S2)	950-2150MHz
Symbol rate (DVB-S/S2)	DVB-S: QPSK 2~45Mbauds;

Hotel IPTV Solution

IPTV Hardware & Content Management System



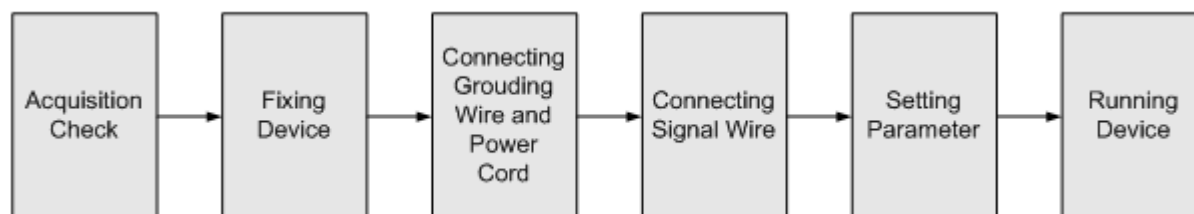
Symbol rate (DVB-S/S2)	DVB-S2:QPSK1~45Mbauds, 8PSK 2~30Mbauds
Code rate (DVB-S/S2)	1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10
Constellation (DVB-S/S2)	QPSK, 8PSK
Input Frequency (ISDB-T)	30-1000MHz
Input Frequency (ATSC)	54MHz~858MHz
Bandwidth (ATSC)	6M bandwidth
Tuner in&out (1:16)	Optional 1:16 tuners input +2 ASI input---SPTS output
Tuner in&out (2:14)	Optional 2:14 tuners input +2 ASI input --- MPTS output
Tuner in&out (3:16)	Optional 3:16 tuners input --- MPTS output

Product Features

1. Support 16 FTA DVB- S/S2 (DVB-C/T/T2 /ISDB-T/ATSC optional)input, 2 ASI input
2. Support BISS descrambling
3. Support DisEqc function
4. 16 MPTS or 512 SPTS output (MPTS and SPTS output switchable)
5. 2 GE mirrored output (IP address and port number of GE1 and GE2 are different), up to 850Mbps---SPTS
6. 2 independent GE output port, GE1 + GE2---MPTS
7. Support PID filtering, re-mapping (Only for SPTS output)
8. Support “Null PKT Filter” function (Only for MPTS output)
9. Support Web operation

Installation Guide

Step#1 - Installation Preparation



When users install device, please follow the below steps. The details of installation will be described at the rest part of this chapter. Users can also refer rear panel chart during the installation.

The main content of this chapter including:

6. Checking the possible device missing or damage during the transportation

7. Preparing relevant environment for installation
8. Installing gateway
9. Connecting signal cables
10. Connecting communication port (if it is necessary)

Environment Requirement

Terms	Requirement
Machine Hall Space	When user installs machine frame array in one machine hall, the distance between 2 rows of machine frames should be 1.2~1.5m and the distance against wall should be no less than 0.8m.
Machine Hall Floor	Electric Isolation, Dust Free Volume resistivity of ground anti-static material: 1X10 ⁷ ~1X10 ¹⁰ W, Grounding current limiting resistance: 1M (Floor bearing should be greater than 450Kg/m ²)
Environment Temperature	5~40°C(sustainable), 0~45°C(short time), installing air-conditioning is recommended
Relative Temperature	20%~80% sustainable 10%~90% short time
Pressure	86~105KPa
Door & Window	Installing rubber strip for sealing door-gaps and dual level glasses for window
Wall	It can be covered with wallpaper, or brightness less paint.
Fire Protection	Fire alarm system and extinguisher
Power	Requiring device power, air-conditioning power and lighting power are independent to each other. Device power requires AC power 100V-240V 50/60Hz 2A. Please carefully check before running.

Grounding Requirement

All function modules' good grounding designs are the basis of reliability and stability of devices. Also, they are the most important guarantee of lightning arresting and interference rejection. Therefore, the system must follow this rule.

Coaxial cable's outer conductor and isolation layer should keep proper electric conducting with the metal housing of device.

Grounding conductor must adopt copper conductor in order to reduce high frequency impedance, and the grounding wire must be as thick and short as possible.

Users should make sure the 2 ends of grounding wire well electric conducted and be antirust.

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IPTV Hardware & Content Management System



It is prohibited to use any other device as part of grounding electric circuit

The area of the conduction between grounding wire and device's frame should be no less than 25mm².

Frame Grounding

All the machine frames should be connected with protective copper strip. The grounding wire should be as short as possible and avoid circling. The area of the conduction between grounding wire and grounding strip should be no less than 25mm².

Device Grounding

Connecting the device's grounding rod to frame's grounding pole with copper wire.

Step#2 - Wire's Connection

The grounding wire conductive screw is located at the right end of rear panel, and the power switch, fuse, power supply socket is just beside, whose order goes like this, power switch is on the left, power supply socket is on the right and the fuse is just between them.

3. Connecting Power Cord: User can insert one end into power supply socket, while insert the other end to AC power.
4. Connecting Grounding Wire: When the device solely connects to protective ground, it should adopt independent way, say, share the same ground with other devices. When the device adopts united way, the grounding resistance should be smaller than 1Ω.

⚠ Caution:

Before connecting power cord to the FBE304 IRD, user should set the power switch to "OFF".

Management System User Manual

User can only control and set the configuration in computer by connecting the device to web NMS Port. User should ensure that the computer's IP address is different from this device's IP address; otherwise, it would cause IP conflict.

Management System Login

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IPTV Hardware & Content Management

Default IP address of your device.



Log in with default account name and password we offered.

The default IP of this device is 192.168.0.136. Connect the PI and the device with a net cable, and use the ping command to confirm they are on the same network segment.

For example, the PC IP address is 192.168.99.252, we then change the device IP to 192.168.99.xxx (xxx can be 0 to 255 except 252 to avoid IP conflict).

Use the web browser to connect the device to the PC by inputting this device's IP address in the browser's address bar and pressing Enter. It displays the Login interface in Figure 1.

Input the Username and Password (Both the default Username and Password are "admin".) and then click "Login" to start the device setting.

The "Summary" Section

Classification #1 - Status

Hotel IPTV Solution

IPTV Hardware & Content Management System



Tuner to IP Gateway

welcome to use W... 2017-11-24 11:17:00 [EN] [中文] [Exit]

Summary

- Status

Parameters

- Tuner Input
- ASI Input
- Biss
- Program Parse
- IP Stream

System

- Network
- Date | Time
- Password
- Save | Restore
- Backup | Load
- Firmware

DEVICE INFORMATION

System

- Software Version: 2.07 Build 200 Oct 31 2017
- Hardware Version: 2.30
- Web Version: 2.03
- System Version: 01.01.02.06(EN)
- Product ID: 03508302-01000011-00000000-00000000
- Uptime: 0 Days, 00:02:47

Important markup information of the system

Visit any sections to customize your content

The “Parameters” Section

Classification #1 - Tuner input (DVB-S/S2)

Tuner to IP Gateway

Web Management

Summary

- Status

Parameters

- Tuner Input
- ASI Input
- Biss
- Program Parse
- IP Stream

Tuner

ID	Input Type	Quality	Strength	Bitrate	Details	Action
1	DVB-S/S2	34%	56%	34.329 Mbps	Sat Freq: 12536.000MHz LNB Freq: 10600.000MHz Symbolrate: 41428Ksps	Edit
2	DVB-S/S2	0%	0%	0.000 Mbps	Sat Freq: 3840.000MHz LNB Freq: 5150.000MHz Symbolrate: 27500Ksps	Edit
3	DVB-S/S2	0%	0%	0.000 Mbps	Sat Freq: 3840.000MHz LNB Freq: 5150.000MHz Symbolrate: 27500Ksps	Edit
4	DVB-S/S2	0%	0%	0.000 Mbps	Sat Freq: 3840.000MHz LNB Freq: 5150.000MHz Symbolrate: 27500Ksps	Edit
5	DVB-S/S2	0%	0%	0.000 Mbps	Sat Freq: 3840.000MHz LNB Freq: 5150.000MHz Symbolrate: 27500Ksps	Edit
6	DVB-S/S2	0%	0%	0.000 Mbps	Sat Freq: 3840.000MHz LNB Freq: 5150.000MHz Symbolrate: 27500Ksps	Edit
7	DVB-S/S2	0%	0%	0.000 Mbps	Sat Freq: 3840.000MHz LNB Freq: 5150.000MHz Symbolrate: 27500Ksps	Edit
8	DVB-S/S2	0%	0%	0.000 Mbps	Sat Freq: 3840.000MHz LNB Freq: 5150.000MHz Symbolrate: 27500Ksps	Edit
9	DVB-S/S2	0%	0%	0.000 Mbps	Sat Freq: 12536.000MHz LNB Freq: 10600.000MHz Symbolrate: 41428Ksps	Edit

Monitor the multiple inputting port statuses of the FBE304 IRD in real-time.

Click “Edit” to set up the parameters in detail.

Detail Parameter

Satellite Frequency: 12536.000 MHz

LNB Frequency: 10600.000 MHz

Symbolrate: 41428 Ksps

Satellite: 1 (1-8)

LNB Voltage: 13V

22K: ON

Set Close

Hotel IPTV Solution

IPTV Hardware & Content Management System



Classification #2 - Tuner input (DVB-T/T2)

Tuner to IP Gateway

Summary

- Status

Parameters

- Tuner Input
- ASI Input
- Biss

Tuner

ID	Type	Quality	Strength	Bitrate	Frequency	Bandwidth	PLP	Action
1	DVB-T/T2	64%	50%	0.000 Mbps	Freq 750.000MHz	Bandwidth 6MHz	1	Edit
2	DVB-T/T2	0%	0%	0.000 Mbps	Freq 750.000MHz	Bandwidth 6MHz	1	Edit
3	DVB-T/T2	0%	0%	0.000 Mbps	Freq 750.000MHz	Bandwidth 6MHz	1	Edit
4	DVB-T/T2	0%	0%	0.000 Mbps	Freq 750.000MHz	Bandwidth 6MHz	1	Edit
5	DVB-T/T2	0%	0%	0.000 Mbps	Freq 750.000MHz	Bandwidth 6MHz	1	Edit
6	DVB-T/T2	0%	0%	0.000 Mbps	Freq 750.000MHz	Bandwidth 6MHz	1	Edit
7	DVB-T/T2	0%	0%	0.000 Mbps	Freq 750.000MHz	Bandwidth 6MHz	1	Edit
8	DVB-T/T2	0%	0%	0.000 Mbps	Freq 750.000MHz	Bandwidth 6MHz	1	Edit
9	DVB-T/T2	0%	0%	0.000 Mbps	Freq 750.000MHz	Bandwidth 6MHz	1	Edit

Detail Parameter

Frequency: 750.000 MHz
 Bandwidth: 6 M
 PLP: 1

Set Close

Click "Edit" to set up the parameters in detail.

Monitor the multiple inputting port statuses of the FBE304 IRD in real-time.

Classification #3 – ASI Input

Tuner to IP Gateway

to use Web Management 2017-11-24 11:21:15 [EN | 中文] [Exit]

Summary

- Status

Parameters

- Tuner Input
- ASI Input
- Biss
- Program Parse
- IP Stream

System

- Network
- Date | Time
- Password
- Save | Restore
- Backup | Load
- Firmware

ASI INPUT

ASI1:

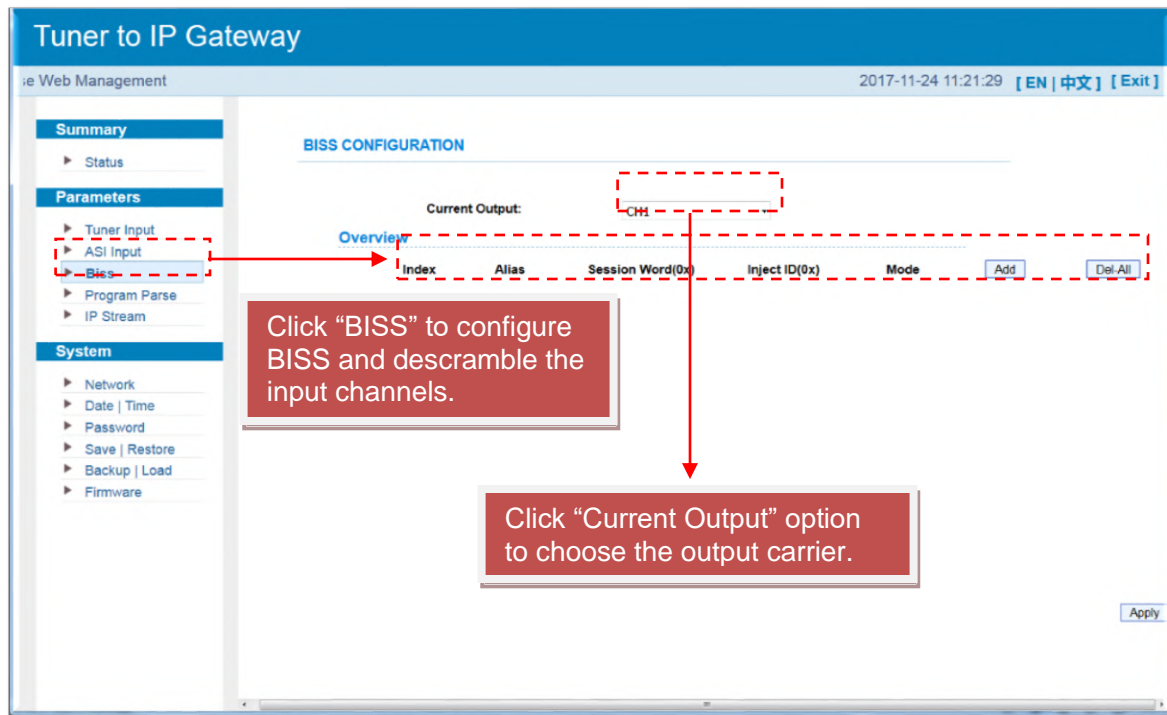
Signal Lock: ●
 Bitrate: 0.000 Mbps

ASI2:

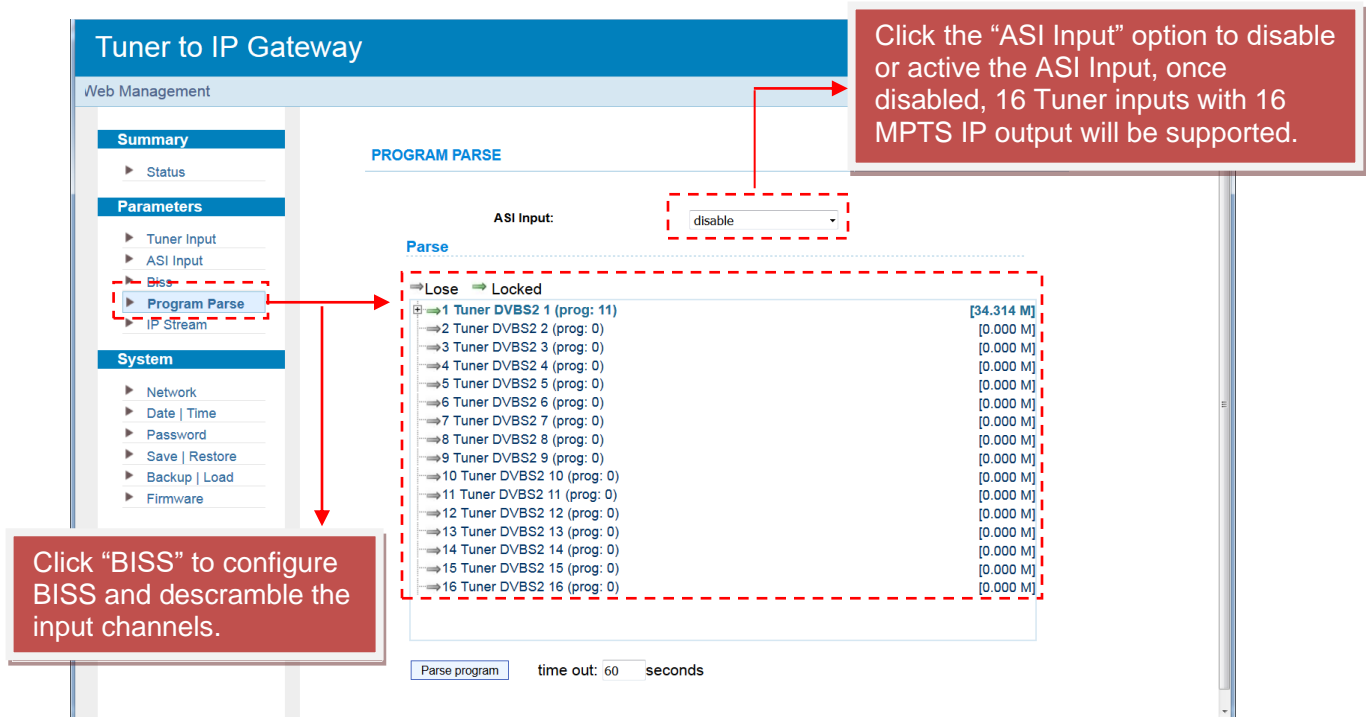
Signal Lock: ●
 Bitrate: 0.000 Mbps

Click "ASI Input" to monitor the status of the 2-channel ASI Input

Classification #4 – BISS



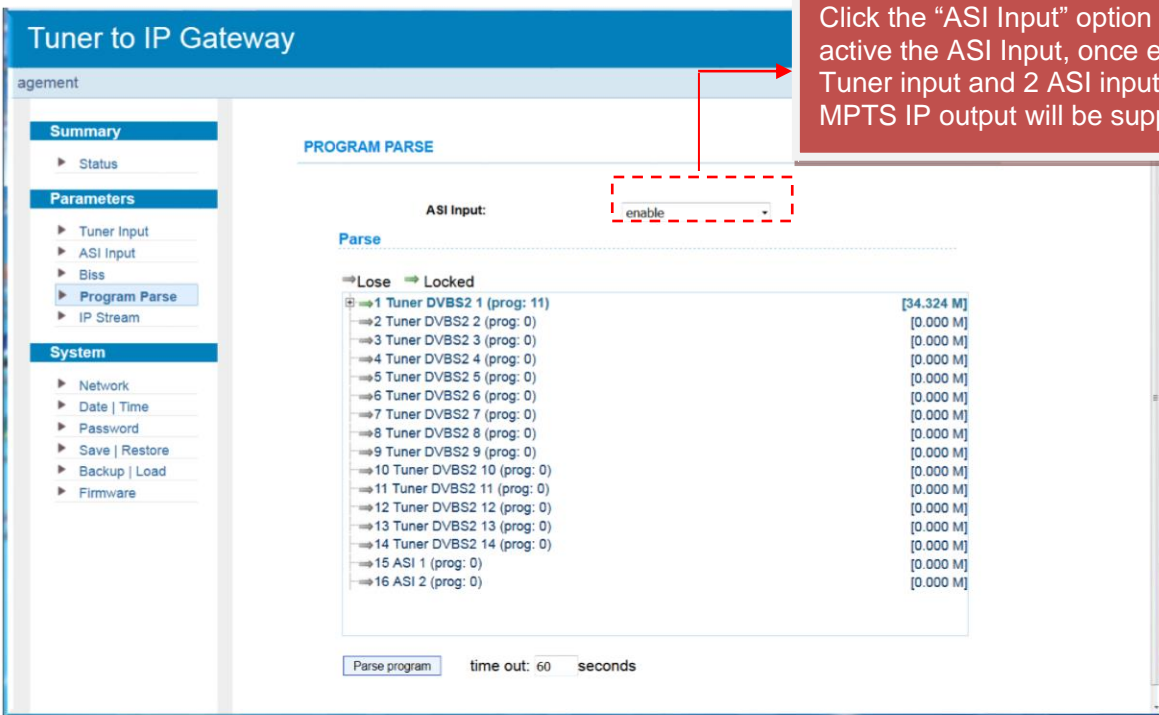
Classification #5 – Program Parse



Classification #5 – Program Parse

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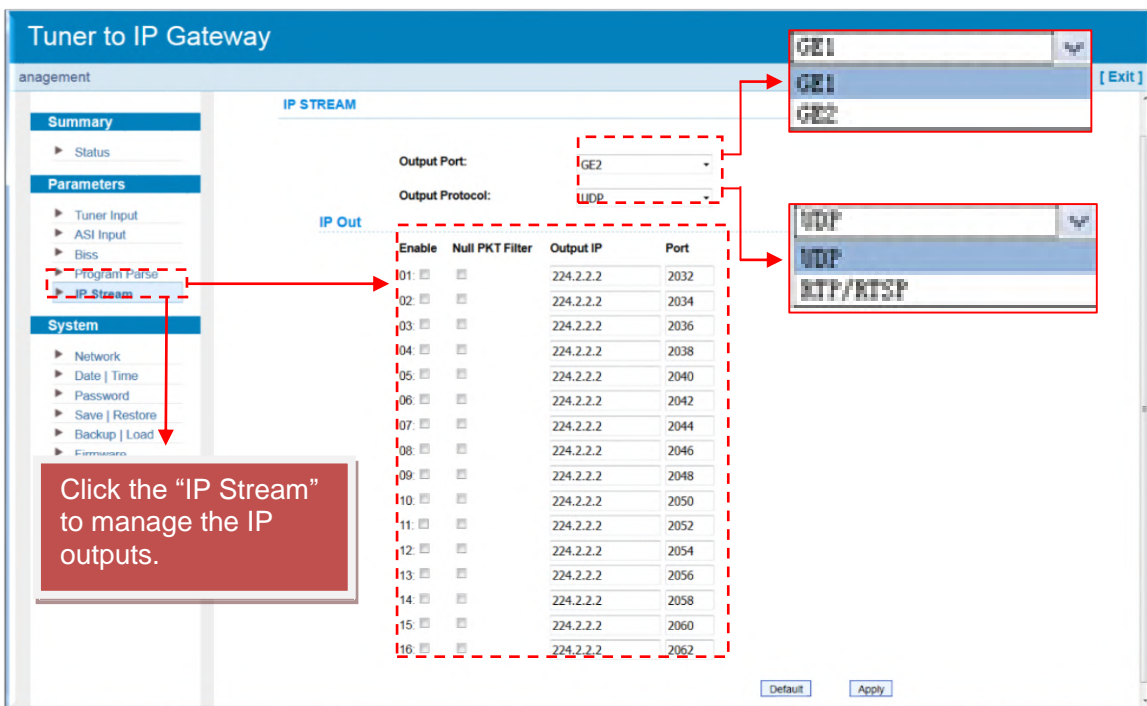
IPTV Hardware & Content Management System



Click the "ASI Input" option to disable or active the ASI Input, once enabled, 14 Tuner input and 2 ASI input with 16 MPTS IP output will be supported.

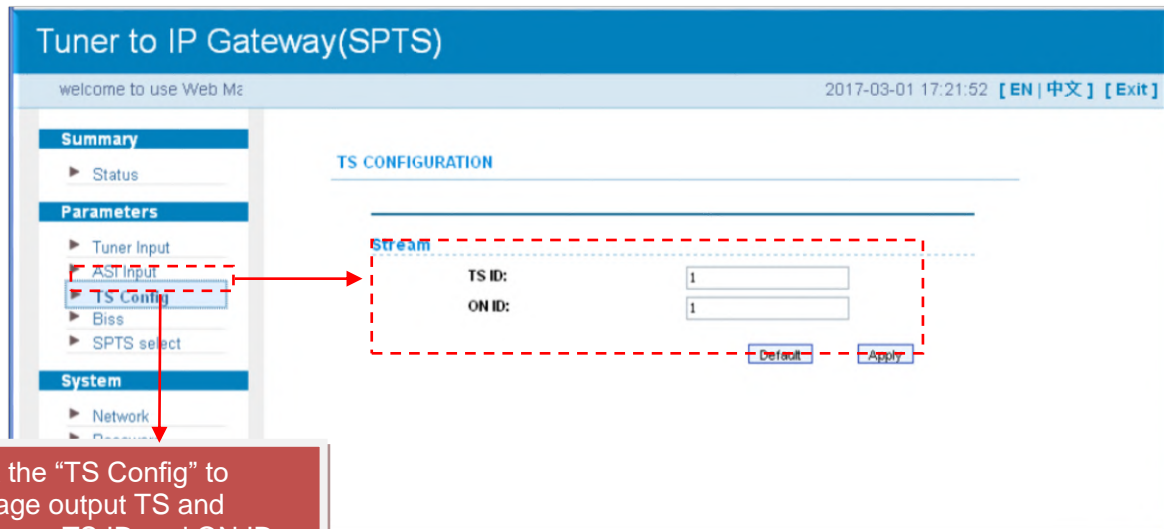
Classification #5 – IP Stream

FBE304 IRD supports 16 Tuner inputs and 2 ASI inputs with 512 SPTS outputs, the menu will be different from MPTS. If you switch MPTS to SPTS, the new mode will be launched after rebooting.



Click the "IP Stream" to manage the IP outputs.

Classification #6 – TS Config (SPTS)



TS CONFIGURATION

Stream

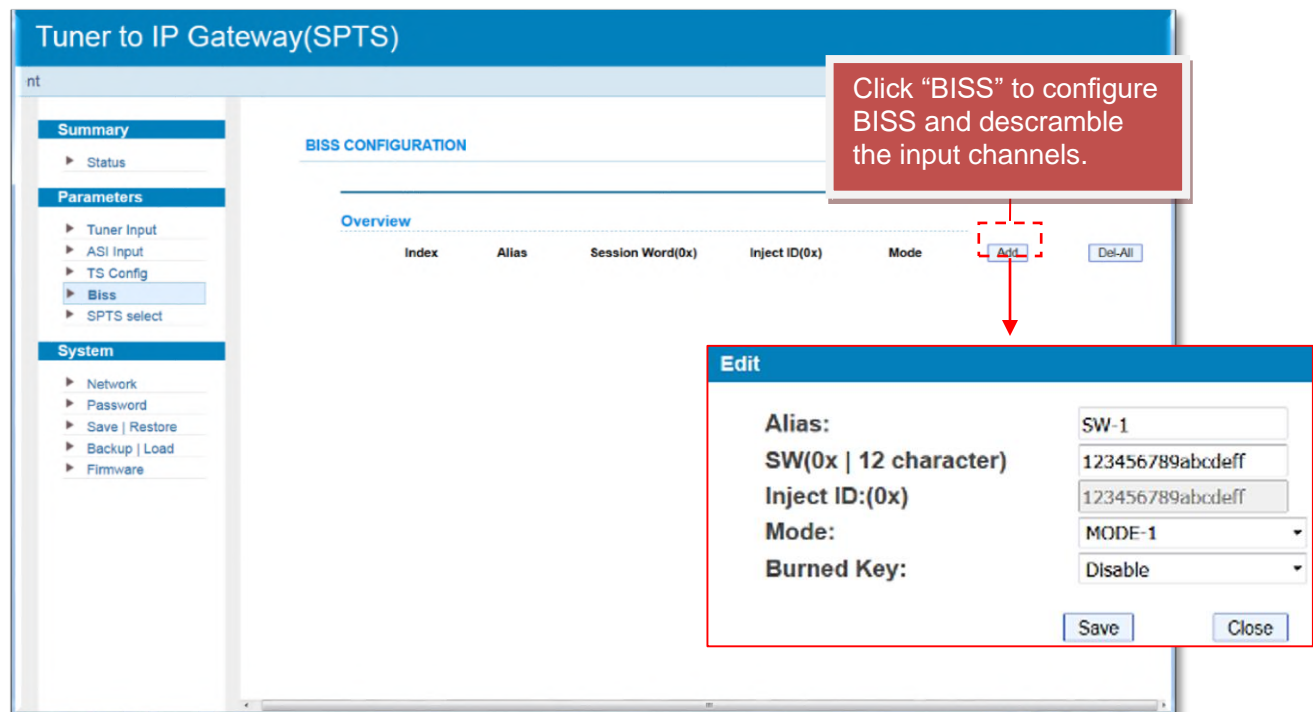
TS ID: 1

ON ID: 1

Default Apply

Click the "TS Config" to manage output TS and configure TS ID and ON ID.

Classification #6 – BISS (SPTS)



BISS CONFIGURATION

Overview

Index	Alias	Session Word(0x)	Inject ID(0x)	Mode

Add Del-All

Edit

Alias: SW-1

SW(0x | 12 character) 123456789abcdeff

Inject ID:(0x) 123456789abcdeff

Mode: MODE-1

Burned Key: Disable

Save Close

Click "BISS" to configure BISS and descramble the input channels.

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Classification #6 – SPTS Select (SPTS)

Click the "SPTS Select" to choose the inputting content to output from IP (Max. 512 SPTS).

Content inputting part (left) and content outputting part (right).

Summary

- ▶ Status

Parameters

- ▶ Tuner Input
- ▶ ASI Input
- ▶ TS Config
- ▶ Biss
- ▶ **SPTS select**

System

- ▶ Network
- ▶ Password
- ▶ Save | Restore
- ▶ Backup | Load
- ▶ Firmware

PROGRAM SELECT

PROGRAM SELECT

Left Panel (Input):

- Lose → Locked
- 1 Tuner DVB-S/S2 (prog: 2/11) [34.326 M]
- 2 Tuner DVB-S/S2 (prog: 0) [0.000 M]
- 3 Tuner DVB-S/S2 (prog: 0) [0.000 M]
- 4 Tuner DVB-S/S2 (prog: 0) [0.000 M]
- 5 Tuner DVB-S/S2 (prog: 0) [0.000 M]
- 6 Tuner DVB-S/S2 (prog: 0) [0.000 M]
- 7 Tuner DVB-S/S2 (prog: 0) [0.000 M]
- 8 Tuner DVB-S/S2 (prog: 0) [0.000 M]
- 9 Tuner DVB-S/S2 (prog: 0) [0.000 M]
- 10 Tuner DVB-S/S2 (prog: 0) [0.000 M]
- 11 Tuner DVB-S/S2 (prog: 0) [0.000 M]
- 12 Tuner DVB-S/S2 (prog: 0) [0.000 M]
- 13 Tuner DVB-S/S2 (prog: 0) [0.000 M]
- 14 Tuner DVB-S/S2 (prog: 0) [0.000 M]
- 15 Tuner DVB-S/S2 (prog: 0) [0.000 M]
- 16 Tuner DVB-S/S2 (prog: 0) [0.000 M]
- 17 ASI (prog: 0) [0.000 M]
- 18 ASI (prog: 0) [0.000 M]

Right Panel (Output):

- Normal → Overflow
- Output (prog: 2)
- 1: CCTV 4 => Tuner1
- 2: CGTN => Tuner1

Buttons:

- ☒ CA Filter
- ☒ PidRemap
- Refresh Input
- Refresh Output
- ====>
- <====
- All Input
- All Output

Tick "CA Filter" to filter the CA source info.
Tick "PID Remap" to enable the PID remapping.

Click "====>/<====" to transfer between the inputting and outputting content sources.

Set up a designated time limitation, and click "Parse program" to parse inputting content.

Click "Refresh Input/Output" to refresh the input/output content info.

Click "All Input/Output" to select all the inputting/outputting content sources.

Program Information

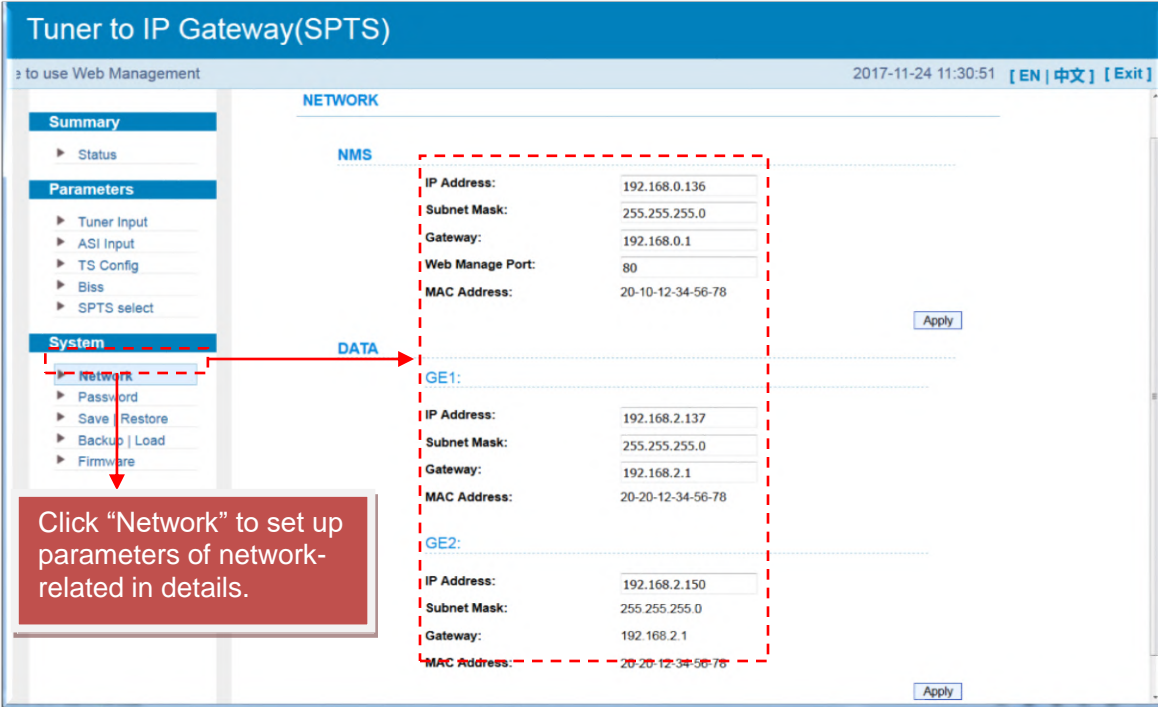
Program Name:	CCTV 4
Program Number:	32
GE1 Addr:	224.2.2.2
GE1 Port:	3000
GE2 Addr:	224.2.2.2
GE2 Port:	3002
Protocol:	UDP
Biss Key:	---
Service Type:	0x01
Service Provider:	
PMT PID:	0x0020
PCR PID:	0x0021
MPEG-2 Video PID:	<input checked="" type="checkbox"/> 0x0022
MPEG-2 Audio PID:	<input checked="" type="checkbox"/> 0x0023

Save Close

Click any of the options (e.g. CCTV4 => Tuner 1) in the outputting part (right) to modify the multiplexed content information on the pop-up dialog.

The “System” Section

Classification #1 - Network (SPTS)



Tuner to IP Gateway(SPTS)

to use Web Management 2017-11-24 11:30:51 [EN | 中文] [Exit]

Summary

- ▶ Status

Parameters

- ▶ Tuner Input
- ▶ ASI Input
- ▶ TS Config
- ▶ Biss
- ▶ SPTS select

System

- ▶ **Network**
- ▶ Password
- ▶ Save | Restore
- ▶ Backup | Load
- ▶ Firmware

NETWORK

NMS

IP Address: 192.168.0.136
Subnet Mask: 255.255.255.0
Gateway: 192.168.0.1
Web Manage Port: 80
MAC Address: 20-10-12-34-56-78

DATA

GE1:

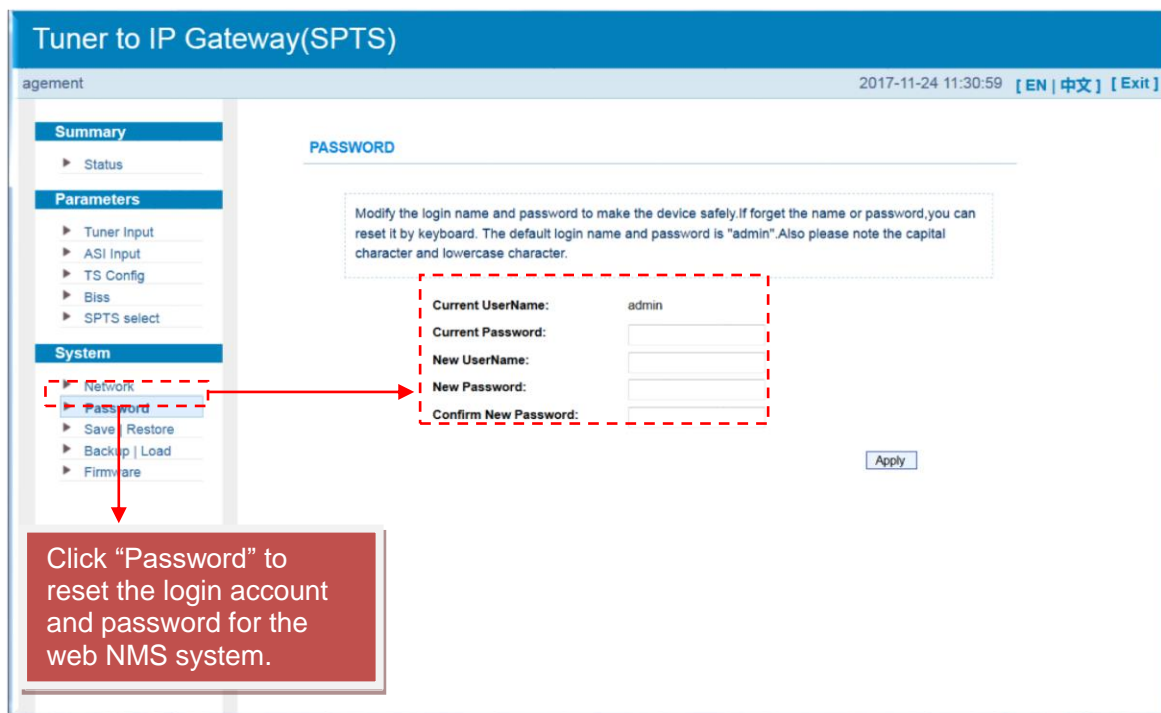
IP Address: 192.168.2.137
Subnet Mask: 255.255.255.0
Gateway: 192.168.2.1
MAC Address: 20-20-12-34-56-78

GE2:

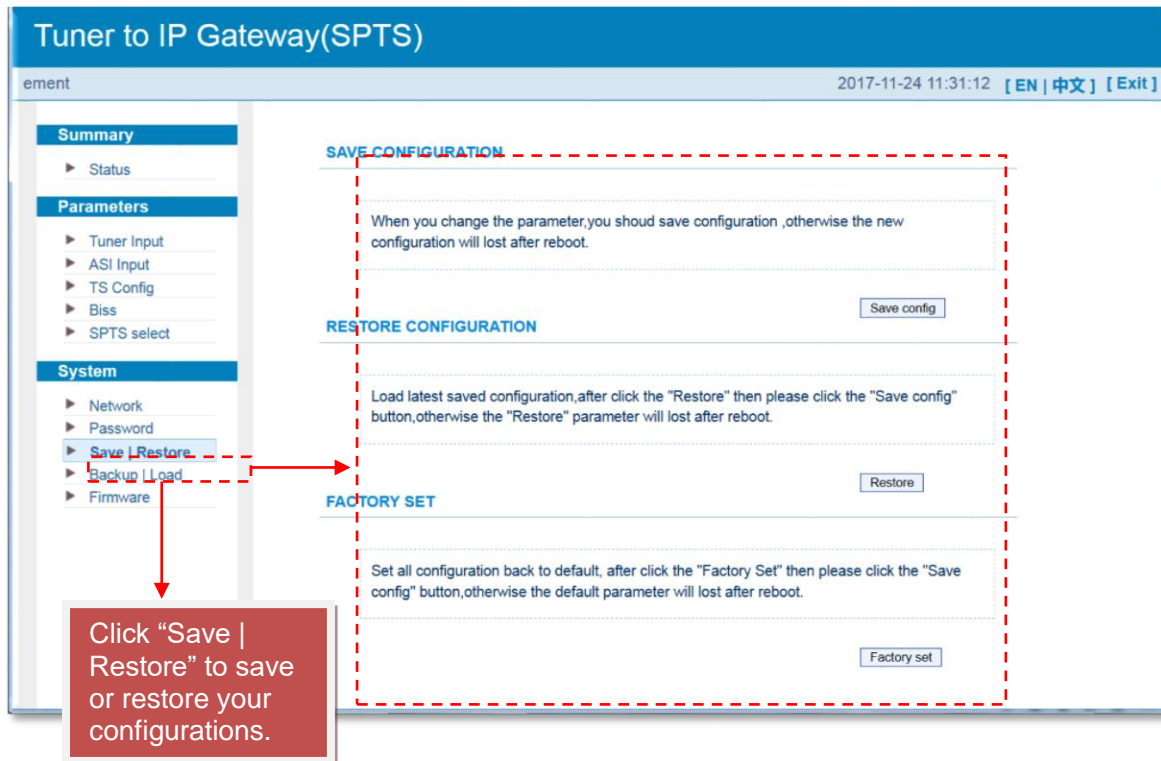
IP Address: 192.168.2.150
Subnet Mask: 255.255.255.0
Gateway: 192.168.2.1
MAC Address: 20-20-12-34-56-78

Click “Network” to set up parameters of network-related in details.

Classification #2 - Password (SPTS)



Classification #3 – Save | Restore (SPTS)



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Classification #4 - Network (SPTS)

The screenshot shows the 'Tuner to IP Gateway(SPTS)' web interface. The left sidebar contains a menu with 'Summary', 'Parameters', and 'System'. Under 'System', 'Backup/Load' is highlighted. The main content area is titled 'BACKUP CONFIGURATION' and 'LOAD CONFIGURATION'. A red dashed box highlights the 'Backup config' and 'Load config' buttons. A red arrow points from the 'Backup/Load' menu item to the 'Backup config' button. A red callout box contains the text: 'Click "Backup/Load" to backup or load your configurations.'

Classification #5 - Network (SPTS)

The screenshot shows the 'Tuner to IP Gateway(SPTS)' web interface. The left sidebar contains a menu with 'Summary', 'Parameters', and 'System'. Under 'System', 'Firmware' is highlighted. The main content area is titled 'FIRMWARE'. A red dashed box highlights the 'Firmware' menu item and the 'Apply' button. A red arrow points from the 'Firmware' menu item to the 'Apply' button. A red callout box contains the text: 'Click "Firmware" to update the firmware.'

The 'FIRMWARE' section includes a 'Warning' box with the following text:

Warning:

1. Update firmware(software and hardware) to get new function,please choose the right firmware to update.If you use a wrong file,the device may not work.
2. Update will keep a long time,please do not turn off the power, otherwise the device will not work.
3. After update,you must reboot device manually.

Below the warning box, there are fields for 'Work Mode:', 'Current Software Version:', and 'Current Hardware Version:'. The 'Work Mode:' field is set to 'SPTS'. The 'Current Software Version:' field shows '1.05 Build 100 Oct 31 2017'. The 'Current Hardware Version:' field is empty. A red dashed box highlights the 'SPTS' option in the 'Work Mode:' dropdown menu. A red arrow points from the 'SPTS' option to the 'Apply' button. A red callout box contains the text: 'Choose any of the IP output modes, click "Apply" and reboot the device.'

Below the 'Current Hardware Version:' field, there is a 'Detail Parameter' table:

Detail Parameter	
Satellite Frequency:	12536.000 MHz
LNB Frequency:	10600.000 MHz
Symbolrate:	41428 Ksps
Satellite:	1 (1-8)
LNB Voltage:	13V
22K:	ON

Below the table, there is a dropdown menu with 'MPTS', 'SPTS', and 'MPTS' options. A red dashed box highlights the 'SPTS' option. A red arrow points from the 'SPTS' option to the 'Apply' button.

Contact us: sales@fmuser.com

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Solution: www.fmradiobroadcast.com/product/detail/hotel-iptv.html

Management System User Manual

User can only control and set the configuration in computer by connecting the device to web NMS Port. User should ensure that the computer's IP address is different from this device's IP address; otherwise, it would cause IP conflict.

Our ISO9001 quality assurance system has been approved by CQC organization. For guarantee the products' quality, reliability and stability. All our products have been passed the testing and inspection before ship out factory. The testing and inspection scheme already covers all the Optical, Electronic and Mechanical criteria which have been published by us. To prevent potential hazard, please strictly follow the operation conditions.

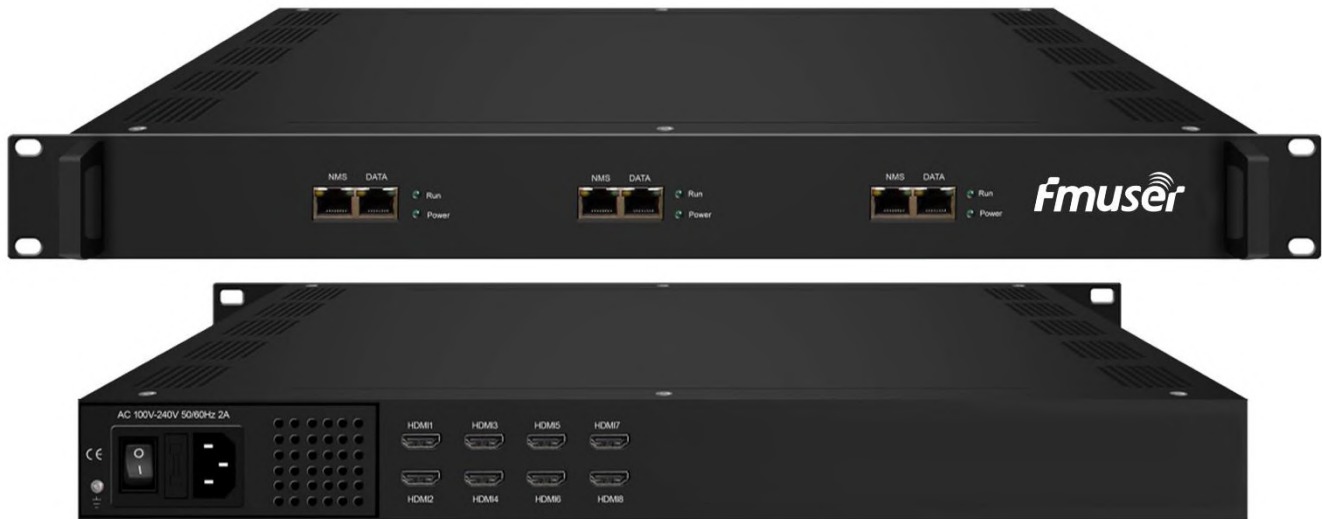
Prevention Measure

- Installing the device at the place in which environment temperature between 0 to 45 °C
- Making sure good ventilation for the heat-sink on the rear panel and other heat-sink bores if necessary
- Checking the input AC within the power supply working range and the connection is correct before switching on device
- Checking the RF output level varies within tolerant range if it is necessary
- Checking all signal cables have been properly connected
- Frequently switching on/off device is prohibited; the interval between every switching on/off must greater than 10 seconds.

Conditions need to unplug power cord

- Power cord or socket damaged.
- Any liquid flowed into device.
- Any stuff causes circuit short
- Device in damp environment
- Device was suffered from physical damage
- Longtime idle.
- After switching on and restoring to factory setting, device still cannot work properly.
- Maintenance needed

FMUSER FBE208 8 in 1 HDMI Hardware Encoder



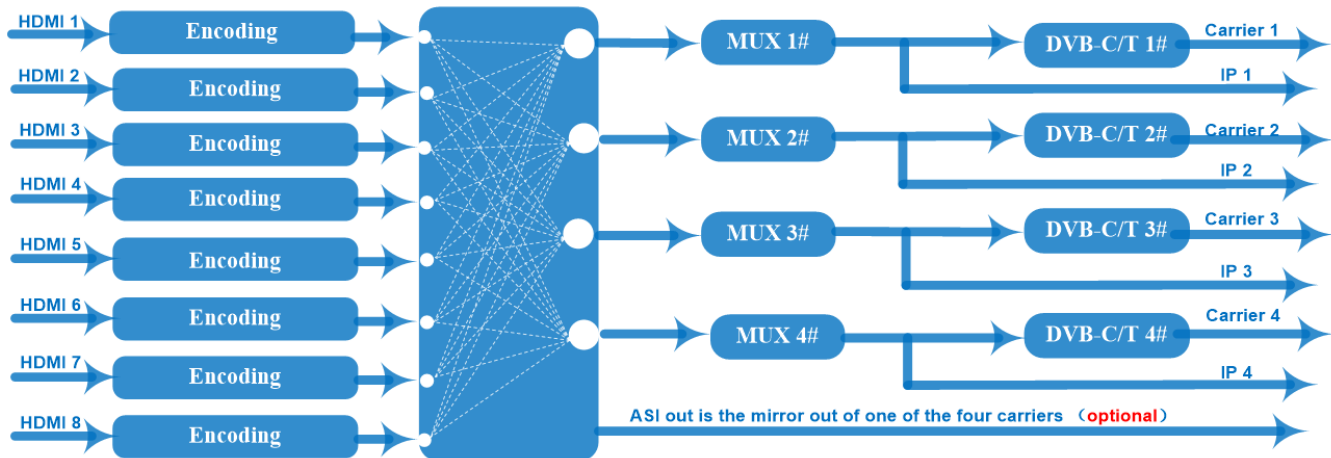
Applications

- Hospitality
- Communities
- Military
- Large cruise ships
- Prisons
- Schools

General Description

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FMUSER FBE208 is a professional high integration device which includes encoding, multiplexing, and modulating in one box. It supports 8 HDMI inputs and DVB-C/T RF out with 4 adjacent carries and 4 MPTS out as mirror out of the 4 modulation carriers via DATA (GE) port. This full function device makes it ideal for small CATV head end system, and it's a smart choice for hotel TV system, entertainment system in sports bar, hospital, apartment...

Product Features

1. Support LOGO, OSD and QR code insertion for every local channel (Language Supported: 中文, English, العربية, ไทย, हिन्दी, русская, اردو, for more languages please consult us...)
2. 8 HDMI input, MPEG-4 AVC/H.264 Video encoding
3. MPEG1 Layer II, LC-AAC, HE-AAC audio encoding format and AC3 Pass Through and support audio gain adjustment
4. 4 groups of multiplexing/modulating output channels
5. 4 DVB-C or DVB-T RF out
6. Support 4 MPTS IP output over UDP and RTP/RTSP
7. Support PID remapping/PSI/SI editing and inserting
8. Control via web management, and easy updates via web

Specification

Terms	Specs
HDMI inputs	8
Encoding	MPEG-4 AVC/H.264
Input Resolution	1920×1080_60P, 1920×1080_60i, 1920×1080_50P, 1920×1080_50i, 1280×720_60P, 1280×720_50P, 720×576_50i, 720×480_60i,
Output Resolution	1920×1080_30P, 1920×1080_25P,

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	1280x720_30P, 1280x720_25P, 720x576_25P,720x480_30P,
Bit-rate	1Mbps~13Mbps each channel
Rate Control	CBR/VBR
Encoding	MPEG-1 Layer 2, LC-AAC, HE-AAC and AC3 Pass Through
Sampling rate	48KHz
Resolution	24-bit
Audio Gain	0-255 Adjustable
MPEG-1 Layer 2 bit-rate	48/56/64/80/96/112/128/160/192/224/256/320/384 kbps
LC-AAC bit-rate	48/56/64/80/96/112/128/160/192/224/256/320/384 kbps
HE-AAC bit-rate	48/56/64/80/96/112/128 kbps
Maximum PID Remapping	180 input per channel
Function	PID remapping (automatically or manually), Generate PSI/ SI table automatically
RF out	4*RF DVB-C out (4 carriers combined output)
Standard	EN300 429/ITU-T J.83A/B
MER	≥40db
RF frequency	50~960MHz, 1KHz step
RF output level	-25~-1dBm (82~105 dbμV), 0.1dBm
Symbol Rate	5.0Msps~7.0Msps, 1ksps stepping
Constellation	J.83A, 16/32/64/128/256QAM, 8M bandwidth J.83B, 64/256 QAM, 6M bandwidth
Standard	EN300744
FFT mode	2K,
Bandwidth	6M, 7M, 8M
Constellation	QPSK, 16QAM, 64QAM
Guard Interval	1/4, 1/8, 1/16, 1/32
FEC	1/2, 2/3, 3/4, 5/6, 7/8
MER	≥42 dB
RF frequency	50~960MHz, 1KHz step
RF out	4*RF COFDM DVB-T out (4 carriers combined output)
RF output level	-28~ -3 dBm (77~97 dbμV), 0.1db step
Stream output1	RF output (F type interface)
Stream output2	4 IP MPTS output over UDP/RTP/RTSP, 1*1000M Base-T Ethernet interface
Others	Network management(WEB) Chinese and English language Ethernet software upgrade
Dimension(WxLxH)	482mmx328mmx44mm
Environment	0~45°C(work); -20~80°C (Storage)
Power requirements	AC 110V± 10%, 50/60Hz, AC 220 ±10%,50/60Hz

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IPTV Hardware & Content Management System



Different from the cable TV system, the IPTV system has introduced a more advanced interactive system, which can meet the various needs of hotel guests during their stay through a variety of interactive functions, such as online meal ordering, video-on-demand, and even online check-out.

An IPTV system is actually an integrated content management system that can integrate all these entertainment functions, for example, being able to watch TV as well as big-name content platforms such as YouTube and Netflix, and of course, to order services online such as online meals and VOD!

The Ultimate Hotel IPTV System FAQ List

The following content contains 2 different FAQ lists, one for the hotel manager and hotel boss, mainly focusing on system basics, while another list is for hotel engineers, which focuses on IPTV system expertise.

Let's begin with the Hotel IPTV system basics, and there are the 7 questions that are mostly asked by the hotel managers and bosses, which is:

FAQ List for Hoteliers

1. What's the price for this hotel IPTV system?
2. What are the main advantages of your hotel IPTV system?
3. How can I apply this hotel IPTV system besides the hotel?
4. Why should I choose the FMUSER hotel IPTV system over cable television?
5. How can I advertise via your IPTV system to my hotel guests?
6. Can I display the name of my hotel guest via this IPTV system?
7. Do I need to employ an engineer to operate your hotel IPTV system?

Q1: What's the price for this hotel IPTV system?

The price of our IPTV system for hotels varies from \$4,000 to \$20,000. It depends on the number of hotel rooms, program sources, and other requirements. Our engineers will upgrade the IPTV hardware equipment based on your ultimate needs.

Q2: What are the main advantages of your hotel IPTV system?

To begin with, FMUSER's hotel IPTV system is a turnkey solution that is Low cost with half the price as any of our competitors and performs well even under constant working 24/7.

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What's more, this is also an advanced IPTV integration system with a ready-steady hardware design that enables the best watching experience for your guests during their rest time.

Additionally, this system efficient accommodation management system for hotels, including room check-in/out, meal ordering, items renting, etc.

Meanwhile, it is a complete hotel advertising system that allows multi-media advertisements such as video, text, and pictures according to your actual needs.

As a highly integrated UI framework, this system can also seamlessly lead your guests to the designated merchants around your hotel and helps increase your turnover.

Last but not least, it is a hotel IPTV system with strong scalability and allows various signals input such as UHF, satellite TV, HDMI, etc.)

Q3: How can I apply this hotel IPTV system besides the hotel?

That's a good question! This hotel IPTV system is actually designed for the needs of IPTV services in multiple accommodation rooms, including hospitality, motels, communities, youth hostels, large cruise ships, prisons, hospitals, etc.

Q4: Why should I choose the FMUSER hotel IPTV system over cable television?

As I mentioned earlier, this hotel IPTV system is a highly integrated solution that enables multiple one-click functions for the hotel IPTV room services, for example, the welcome home page, menu, VOD, take-out ordering, and other functions. By visiting the content that is uploaded by your engineers in advance, your guests will be much more pleased during their accommodation, this helps improve your turnover. However, cable TV could never do that since it is not a highly interactive system as an IPTV system, it brings TV programs ONLY.

Q5: How can I advertise via your IPTV system to my hotel guests?

Well, you may ask your engineers to put different advertisements for designated guests who ordered a VIP room or a standard room. For example, you can upload the advertisement text and display them in a loop to the guests while they are watching TV programs. For the VIP guests, the advertisement may be like "Spa service and golf are now opened for VIP guests on the 3rd floor, please order a ticket ahead". For the standard rooms, the advertisement may be like "Buffet dinner and beer are opened on the 2nd floor before 9 P.M., please order a ticket ahead". You may also set up multiple ad text messages for surrounding businesses and improve the buying potential.

It's all about increasing turnover for hotels, isn't it?

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Q6: Can I display the name of my hotel guest via this IPTV system?

Yes, that's for sure. You can ask your hotel engineers to upload the relative content in the system management background. Your guests will see his/her name automatically displayed on the TV screen in form of a salutation once the IPTV is powered on. It will be like "Mr. Wick, Welcome to Ray Chan's hotel"

Q7: Do I need to employ an engineer to operate your hotel IPTV system?

You'll need to work with our system engineers during the initial setting for the equipment. And once we're done with the setting, the system will automatically operate 24/7. No need for routine maintenance. Anyone who knows how to operate a computer is enough to operate this IPTV system himself.

So, this is the list of 7 frequently asked questions on IPTV system basics. And the following content is the list of FAQs on hotel IPTV system expertise, if you were a system engineer who works for a hotel, this FAQ list will help you a lot.

FAQ List for Hotel IPTV Engineers

I guess we have run over the Hotel IPTV system basics, and here are 7 frequently asked questions by hotel engineers, and they are:

1. Can I use your system if my hotel is using a smart TV?
2. What is the basic hotel IPTV system equipment in this case?
3. How can I modify the equipment settings of your hotel IPTV system?
4. Is there anything I need to pay attention to while wiring the system?
5. Any suggestions for the IPTV system transmission room maintenance?
6. How does your IPTV system work?
7. What do I need to prepare before placing an order for your hotel IPTV system?

Q1: Can I use your system if my hotel is using a smart TV?

Of course, you can, but please make sure to install the Android APK we provided in your set-top boxes ahead. A Smart TV usually comes with a set-top box by default that has no IPTV APK inside, our IPTV server provides APK though. Some smart TVs use WebOS and alike operating systems. If this type of TV cannot install APK, it is recommended to use FMUSER's set-top box instead.

Q2: What is the basic hotel IPTV system equipment in this case?

In our last video on the professional hotel IPTV system, our engineers recommended the following basic equipment for a DRC local hotel with 75 rooms:

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- 1 * 4-way Integrated Receiver/Decoder (IRD).
- 1* 8-way HDMI Encoder.
- 1* FMUSER FBE800 IPTV server.
- 3 * Network switch
- 75 * FMUSER Hotel IPTV Set-top Boxes (AKA: STB).

What's more, for add-ons that are temperately NOT included in our solutions, here is what our engineers recommended:

- Paid program receiving authorization card for IRD
- Set-top boxes with different programs input and standards (e.g. HDMI satellite, local UHF, YouTube, Netflix, Amazon firebox, etc.)
- 100M/1000M Ethernet cables (please lay them properly in advance for each of your hotel rooms that needs IPTV services).

By the way, we're able to customize a whole hotel IPTV system with basic equipment and add-ons at the best price and quality for you.

Ask for a quotation today and our IPTV system engineers will get to you ASAP.

Q3: How can I modify the equipment settings of your hotel IPTV system?

An online user manual is included in the IPTV system equipment package, please read them carefully and personalize the settings as your will. Our engineers are always listening if you have any questions.

Q4: Is there anything I need to pay attention to while wiring the system?

Yes, and here are 4 things you should know before and after the system wiring, which is:

To start with, for your proper on-site wiring, all the hotel IPTV system equipment will be tested and affixed with the relevant labels (1 on 1) before delivery.

During on-site wiring, please make sure each input port of the system equipment is matched with the designated input Ethernet cables

What's more, always double-check the connection between the Ethernet cable and the input ports, and make sure they are stable enough and not loose because the equipment on-working light will flash still even with a loose Ethernet cable connection.

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Finally, please make sure you choose a good quality Cat6 Ethernet patch cable at a high transmission speed of up to 1000 Mbps.

Q5: Any suggestions for the IPTV system transmission room maintenance?

Sure we have. Except for the basic maintenance that every hotel engineer should follow, such as correct wiring and keeping the room dust-free and clean, our IPTV system engineer also recommended that the working temperature should be less than 40 Celsius while the humidity should be less than 90% relative humidity (non-condensing), and the power supply should remain stable between 110V-220V. And most importantly, make sure the room is engineer-only, and avoid the animals such as mice, snakes, and cockroaches from entering the room

Q6: How does your IPTV system work?

Well, it depends on how you input the signals.

For example, if the input signals are from the TV satellite, they will be transformed from RF into IP signals, and finally gets into the set-top boxes in the guests' rooms.

If you're interested in this topic, welcome to pay a visit to our video demo on what is a hotel IPTV system and how it works.

Q7: What do I need to prepare before placing an order for your hotel IPTV system?

Well, before you reach out to our engineers via the links and phone number in the video description, you may need to figure out what you need exactly, for example:

How do you receive the signals? Is it a TV satellite program or a homebrew program? How many channels of signal inputs are there?

What is the name and location of your hotel? How many rooms do you need to cover for IPTV services?

What devices do you currently have and what problems do you hope to solve?

Although our engineers will discuss these topics with you in WhatsApp or by phone, however, it would save time for both of us if you figure out the questions listed before reaching out to us.

Contact Information

For the latest specifications, additional product information, worldwide sales and distribution locations, and information about FMUSER:

- Email: sales@fmuser.com
- WhatsApp/Tel Chat: [+86-13922702227](tel:+86-13922702227)
- Solution Indexed: <https://www.fmradiobroadcast.com/product/detail/hotel-iptv.html>
- Video Demonstration: <https://youtu.be/0jVFQs34oYI>
- Online Chat: <https://jivo.chat/IEHTbmpYDr>

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