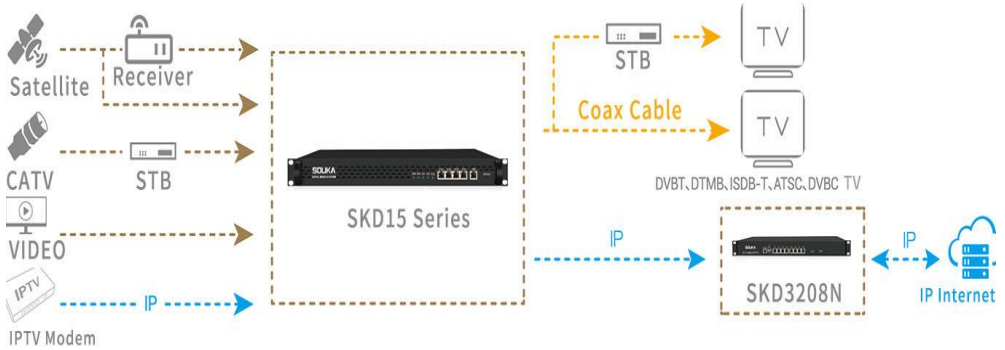
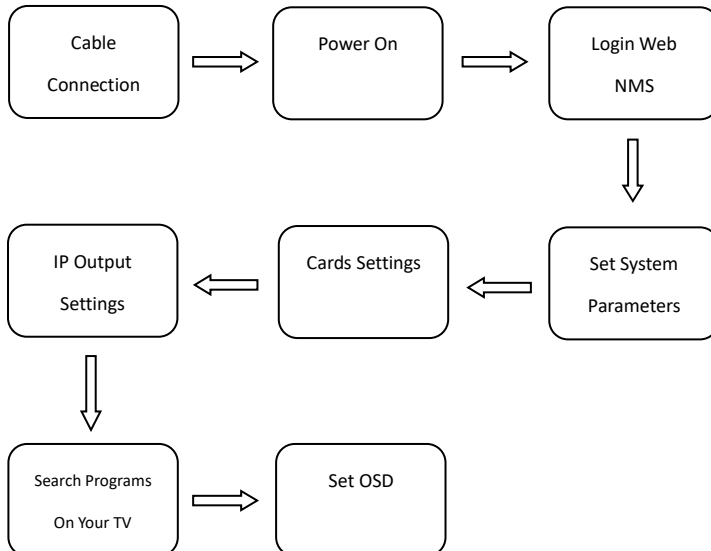


Digital Headend System Quick Installation Guide

System Diagram

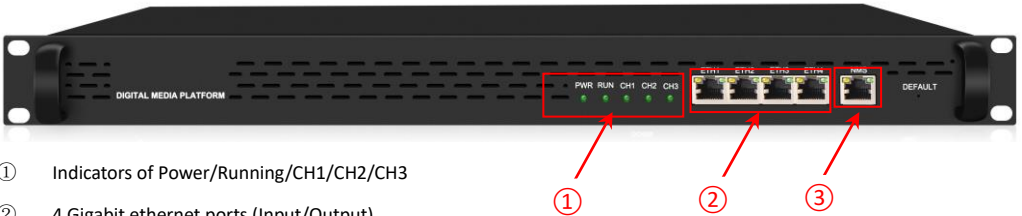


Installation Map



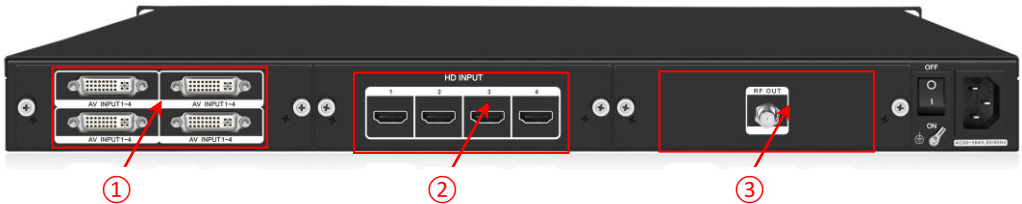
Step 1, Cable Connection

Front panel



- ① Indicators of Power/Running/CH1/CH2/CH3
- ② 4 Gigabit ethernet ports (Input/Output)
- ③ 1 Network management port

Rear panel



- ① 16 Channels CVBS signal input
- ② 4 HDMI input
- ③ 1 Combined digital signal output



- ① 4 Satellite signal input
- ② Power supply socket and Switch

Input Signal source connection: Connect ethernet cables, HDMI cables, coaxial cables or AVI cables to the respective input ports accordingly.

Internal network management: 1) Connect the NMS network port to the PC network port with a network cable;

2) The NMS network port is connected to the switch network port, and the PC network port is



connected to the switch;

- External network management:
- 1) The WAN port of the router is connected to the modem, that is the external network;
 - 2) The switch network port is connected to any network port of the router which is not WAN;
 - 3) The LAN port of the switch is connected to the NMS port and PC network port of the device;

IP output:

The IP output is 1000M bandwidth. If the terminal equipment receiving standard is 100M, the gigabit network cable must be transitioned to 100M through the gigabit adaptive switch, and then connected to the terminal device through the 100M/Gigabit network cable.

RF output:

Connect the coaxial cable to the RF Out port.

Step 2, Power On

Step 3, Login Web NMS Management

- Notice: 1. Please use Google Chrome or Microsoft Edge to login the system!!!!
2. Please make sure your computer is in the same IP segment as the modulator is.

1. Connect the modulator and the computer by the RJ45 NMS port.
2. Open your Google Chrome and input default IP address **192.168.1.30**, and press enter.
3. The default user name is **user** and the default password is **user**



Once you successfully login, you can have a quick overview on the device about the hardware and software version, the running status.

Serial Number: The device's unique ID

Device Name: This modulator's name, which you can modify it in the Basic Parameters

Hardware Version and Software Version: When you need to upgrade the software, these two versions are required to be provided.

Run Time: The device's running time

Current and Voltage: To display the current and voltage

Fan 1, Fan 2 and Fan3: To display the fan's speed.

Temperature: The device's inner temperature

Step 4, Set System Parameters

4.1 Basic Parameters

The screenshot shows the 'SOUKA' web interface. On the left is a sidebar menu with options: System status, Basic Parameters (selected), Cards, Network Parameters, Switch Management, System Parameters, and Account. The main area has three tabs: Base, Time Zone, and Fan. The 'Base' tab is active, showing a form with 'Device Name' (SKD1500M) and 'Cabinet' (0). A blue 'Submit' button is at the bottom of the form.

There are three sheets in this page: Base, Time and Fan

Base table

This is a detailed view of the 'Base' configuration form. It includes three tabs: 'Base' (selected), 'Time Zone', and 'Fan'. The form contains two input fields: 'Device Name' with the value 'SKD1500M' and 'Cabinet' with the value '0'. A blue 'Submit' button is located at the bottom right of the form.

Device Name: Name your device

NIT Version:

Time table

Base

Time Zone

Fan

Local Timezone

(UTC+8:00)Beijing,Chong

Date Time

1970/01/06 06:16:45

Manual Daylight Saving

☐

Submit

2019/10/29 22:26:18

Oct

2019

Sun	Mon	Tue	Wed	Thu	Fri	Sat
29	30	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31	1	2
3	4	5	6	7	8	9

Time

22:26:18

Clear Today OK

In Time table, you can change the time zone, date and Time

1. Changing the time zone will change the time automatically.
2. You can set the time manually by the time box.
3. **Clear**: Reset the time display
4. **Today**: The modulator will read the time from your computer
5. **OK**: Save and exit

Fan table

Base

Time Zone

Fan

Mode

Auto

Fan Speed Control 1

0

Fan Speed Control 2

0

Fan Speed Control 3

0

Submit

Mode: User can select Auto or Manual here.

Auto: All the five fans will work according to the software and the inner temperature

Manual: You can take full control of the fans. When you have one card, you might turn on one fan to work according to the temperature.

NIT Version: Input the NIT version according to your input programs

4.2 Network Parameter

SOUKA

System status

Basic Parameters

Cards

1 SKD1508A

2 SKD1510H

3 SKD1550B

Network Parameters

Switch Management

System Parameters

Account

Language

Wired info

DHCP

IP Address

192.168.2.201

Subnet Mask

255.255.255.0

Default Gateway

192.168.2.1

Primary DNS

192.168.2.1

Secondary DNS

192.168.2.1

Mac Address

00:80:70:00:41:B2

Submit

5

DHCP: If you need to put the modulator under a router with DHCP on, you might switch ON.

IP Address: The default IP is 192.168.1.30. And it is adaptable.

Subnet Mask: The default one is 255.255.255.0. And it is adaptable.

Default Gateway: Setting the gateway.

Primary DNS: The default one is 8.8.8.8 And it is adaptable.

Secondary DNS: The default one is 202.96.134.133 And it is adaptable.

MAC: We suggest users don't change it

4.3 Switch Management

SOUKA

System status

Basic Parameters

Cards

1 SKD1508A

2 SKD1510H

3 SKD1550B

Network Parameters

Switch Management

System Parameters

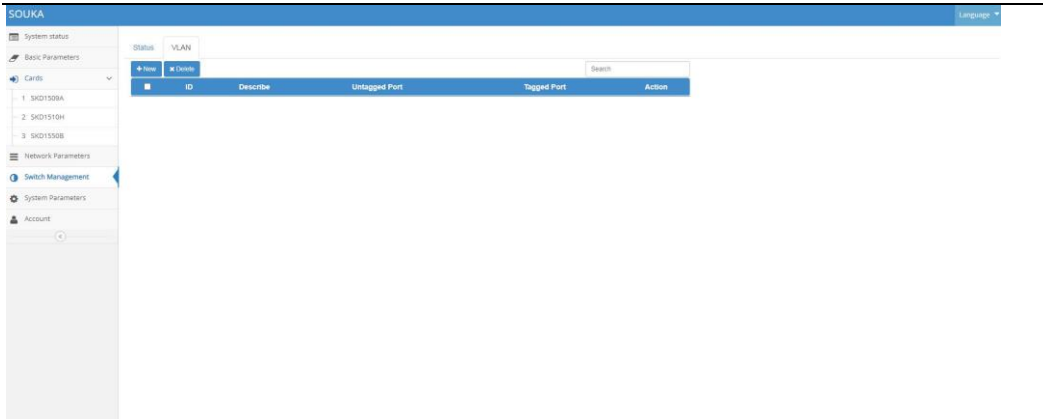
Account

Language

Status

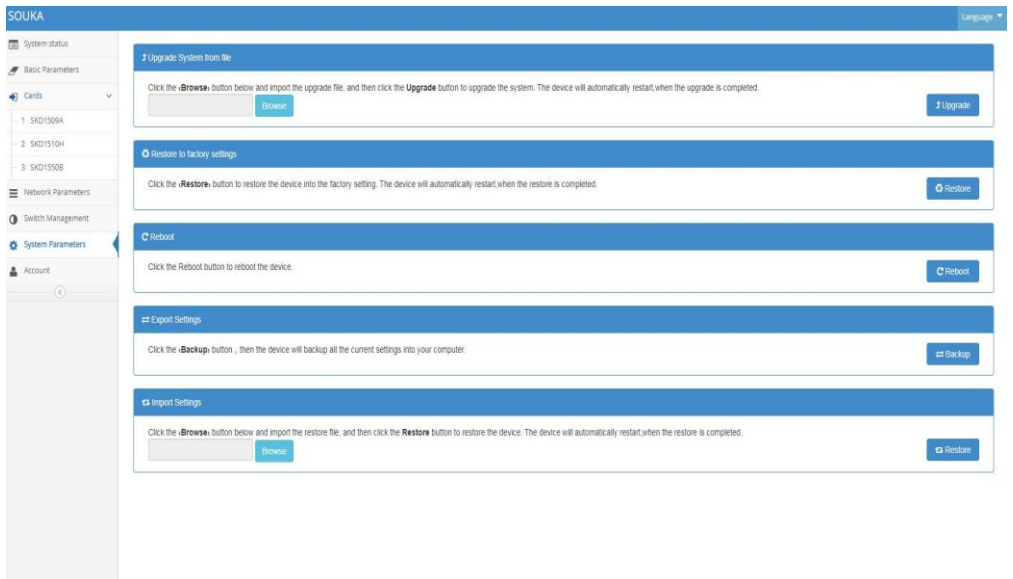
VLAN

Position	Speed(Mbps)	Duplex	Link
ETH 1	0	Half	
ETH 2	1000	Full	
ETH 3	1000	Full	
ETH 4	0	Half	
CH 3	1000	Full	
CH 2	1000	Full	
CH 1	1000	Full	



Here you can manage 3 cards and 4 gigabit ethernet ports(input/output).

4.4 System Parameters



4.5 Account

SOUKA

System status

Basic Parameters

Cards

1 SKD1509A

2 SKD1510H

3 SKD1550B

Network Parameters

Switch Management

System Parameters

Account

Current User Info

Current UserName

Current Password

New User Info

New Username

New Password

Confirm Password

Submit

In order to change the user name and password, you need to input the current user name and password.

If you forget your new user name or new password, you can use the reset button in the front panel to restore.

Step 5, Cards Settings

The cards will be listed on the left of table. To set up the cards, please click the card's name

SKD1510H

Status:

System status

Basic Parameters

Cards

1 SKD1506A

2 SKD1510H

3 SKD1550B

Network Parameters

Switch Management

System Parameters

Account

Status

Network

TS Settings

Output Settings

OSD

Serial Number

00000000000043E7

Output Mode

IP

CPU Temperature

47.6°C

Hardware Version

Software Version

2020-10-26 10:36:55

Channel	Input Resolution	Video Signal
1	1920x1080	
2	----	
3	----	
4	----	

Message

CPU Temperature: Display the temperature of CPU

Input Resolution: Display input resolution

Video Signal: You can check the working status of 4 input HDMI ports.

Network:

SOLIKA

System status

Basic Parameters

Cards

1 SKD1506A

2 SKD1510H

3 SKD1550B

Network Parameters

Switch Management

System Parameters

Account

Status

Network

TS Settings

Output Settings

OSD

IP

10.10.10.15

Subnet Mask

255.255.255.0

Default Gateway

10.10.10.1

Update

Subnet Mask: The default one is 255.255.255.0. And it is adaptable

Default Gateway: Setting the gateway

TS Settings:

SOUKA Language ▾

System status

Basic Parameters

Cards ▾

1 SKD1508A

2 SKD1310H

3 SKD1550B

Network Parameters

Switch Management

System Parameters

Account

Status

Network

TS Settings

Output Settings

OSD

Channel	TSID	ONID	Network ID	Network Name	Service ID	Service Name	Service Provider Name	PMT PID	Audio PID	Video PID
1	5	5	5	SOUKA	5	SOUKA-2-1	SOUKA	38	39	40
2	6	6	6	SOUKA	6	SOUKA-2-2	SOUKA	48	49	50
3	7	7	7	SOUKA	7	SOUKA-2-3	SOUKA	58	59	60
4	8	8	8	SOUKA	8	SOUKA-2-4	SOUKA	68	69	70

✓ Submit

TSID: Transport stream ID, 1~65534

ONID: Original network ID, 1~65534

Network ID: Network ID, 1~ 65534

Network Name: Input your network name

Service ID: 1-65534

Service Name: Program name

Service Provider Name: Program provider

PMT PID: 32 - 8190

Audio PID: 32 - 8190

Video PID: 32 - 8190

NOTICE: The system will generate the IDs according to the slot number. If you have two devices, please change one of them manually.

Output Settings:

SOUKA
Language ▼

System status

Basic Parameters

Cards ▼

- 1 SKD1506A
- 2 SKD1510H
- 3 SKD1530B

Network Parameters

Switch Management

System Parameters

Account

Status Network TS Settings Output Settings OSD

Bitrate(Kbps)
Protocol
Output Address
Port
Incrementally
Video Encoding
Action

UDP

H264_Baseline_Profile_Level_3_1
Batch Applications

Channel	Bitrate(Kbps)	Output Resolution	Protocol	Output Address	Port	Video Encoding
1	6000	1920x1080	UDP	239.10.0.2	10001	H264_High_Profile
2	6000	1920x1080	UDP	239.10.0.2	10002	H264_High_Profile
3	6000	1520x1080	UDP	239.10.0.2	10003	H264_High_Profile
4	6000	1920x1080	UDP	239.10.0.2	10004	H264_High_Profile

Output Address

udp://@239.10.0.2:10001.udp://@239.10.0.2:10002.udp://@239.10.0.2:10003.udp://@239.10.0.2:10004.

Copy

Save

Protocol: Select UDP/RTP

Incrementally: Select by output address or port

Video Encoding: Select the format of video encoding

Output Resolution: Display output resolution

Copy the output address for next step “Src-IP” settings.

SKD1506A

Status:

System status

Basic Parameters

Cards ▼

- 1 SKD1506A
- 2 SKD1510H
- 3 SKD1530B

Network Parameters

Switch Management

System Parameters

Account

Status Network Src-IP Source Channel RF

Serial Number

00000000000003026

Output Mode

DVB-T

Hardware Version

SKD1506A_V1.0.20191011

Software Version

2020-11-09 11:00:55

RF Channel	Frequency(MHz)	RF Level(dBuv)	Bitrate(Mbps)
1	474.000	110.0	4.4
2	482.000	110.0	0.0
3	490.000	110.0	0.0
4	498.000	110.0	0.0

Message

RF [0] start settings

RF [0] start ok

RF [1] start settings

RF [1] start ok

RF [2] start settings

RF [2] start ok

RF [3] start settings

RF [3] start ok

Serial Number: The cards unique ID

Output Mode: It displays ATSC or J.83B, J.83A, DVBT, DVBC or IP, which you can select in Settings sheet

Hardware Version and Software Version: When you need to upgrade the software, these two versions are required to be

provided.

RF Channel: 4CHS RF output

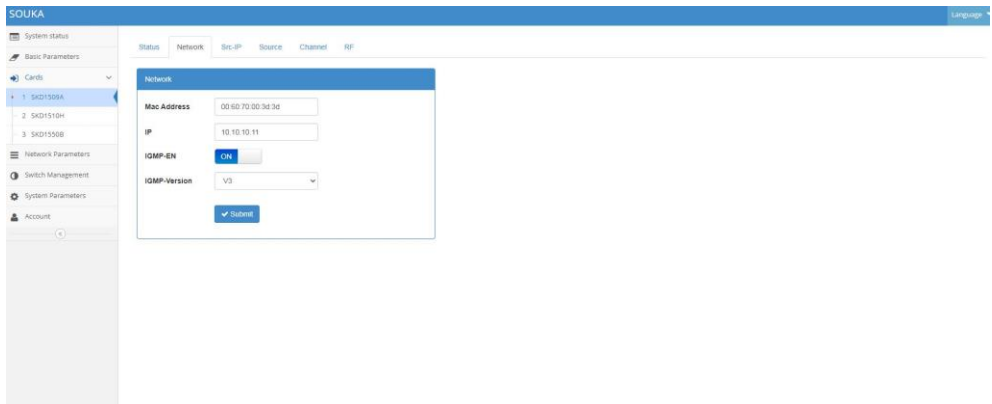
Frequency: Set the output frequency. Frequency range 100 to 999.999MHz

RF Level: The RF output level of four channels

Bitrate: Display the data of Bitrate

Message: The warning message will display here

Network:



The screenshot shows the SOUKA web interface with the 'Network' tab selected. The left sidebar contains a menu with 'Cards' (showing three entries: 1. SKD1508A, 2. SKD1510H, 3. SKD1550B), 'Network Parameters', 'Switch Management', 'System Parameters', and 'Account'. The main content area displays the 'Network' configuration form with the following fields:

- Mac Address:** 00:60:72:00:3d:3d
- IP:** 10.10.10.11
- IGMP-EN:** ☒ On
- IGMP-Version:** V3
- Submit:**

IGMP-EN: Select On/Off

IGMP-Version: the version of Internet Group Management Protocol

Src-IP:



The screenshot shows the 'New' window for configuring Src-IP. It has a title bar with 'New' and a close button. The window contains the following fields:

- Unicast/Multicast:** Radio buttons for 'Unicast' and 'Multicast' (selected).
- IP:** 239.10.0.2
- Port:** 10000
- Incrementally:** Port
- Step:** 1
- Count:** 5
- Buttons:** and

Click "+New" to popup a window as above, input the program channels IP address which copied before, then select incrementally by "Port", input 1 for Step and programs number for Count. After finish, click "Submit" to the table as below:

Status

Network

Src-IP

Source

Channel

RF

+ New

✖ Delete

✔ Submit

All <input type="checkbox"/>	NO.	IP	Port
<input type="checkbox"/>	1	239.10.0.2	10000
<input type="checkbox"/>	2	239.10.0.2	10001
<input type="checkbox"/>	3	239.10.0.2	10002
<input type="checkbox"/>	4	239.10.0.2	10003
<input type="checkbox"/>	5	239.10.0.2	10004

Tick the program channels you want, then click “Submit” to next step.

Src-IP: IP address of the program source

Source:

Status

Network

Src-IP

Source

Channel

RF

RF 1(474.000 MHz) 7.6/31.7 Mbps

RF 2(482.000 MHz) 0.0/31.7 Mbps

RF 3(490.000 MHz) 0.0/31.7 Mbps

RF 4(498.000 MHz) 0.0/31.7 Mbps

NO.	IP	Service Name	Bitrate(Mbps)	RF Channel	Action
2	239.10.0.2:10001	SOUKA-2-1	7.369	RF 1 (474.000 MHz)	Cancel
3	239.10.0.2:10002	SOUKA-2-2	0.000	RF 1 (474.000 MHz)	Cancel
4	239.10.0.2:10003	SOUKA-2-3	0.000	RF 1 (474.000 MHz)	Cancel
5	239.10.0.2:10004	SOUKA-2-4	0.000	RF 1 (474.000 MHz)	Cancel
6	239.1.1.100:10005	SOUKA	2.385	Please select RF ch	Forward

Refresh Interval 2s

+ Forward ALL

After successfully loading the programs, you can get a list here, click “+Forward All” to forward all channels.

Service Name: Program name

RF Channel: Selected RF Channel

Channel:

Status

Network

Src-IP

Source

Channel

RF

✖ Delete

✔ Submit

All <input type="checkbox"/>	RF Channel	IP Address(S)	Service Name(S)	Service Name(D)	LCN	Bitrate(Mbps)	Action
<input type="checkbox"/>	1-1 (474.000 MHz)	239.10.0.2:10001	SOUKA-2-1	SOUKA-2-1	1	7.516	Edit
<input type="checkbox"/>	1-2 (474.000 MHz)	239.10.0.2:10002	SOUKA-2-2	SOUKA-2-2	2	0.000	Edit
<input type="checkbox"/>	1-3 (474.000 MHz)	239.10.0.2:10003	SOUKA-2-3	SOUKA-2-3	3	0.000	Edit
<input type="checkbox"/>	1-4 (474.000 MHz)	239.10.0.2:10004	SOUKA-2-4	SOUKA-2-4	4	0.000	Edit

Select the program channels you want, then click “submit”.

RF:

Status
Network
Src-IP
Source
Channel
RF

RF Channel	RF Enable	Frequency(MHz)	TSID	ONID	Network ID	Network Name
1-1	<input checked="" type="checkbox"/>	474.000	1	1	1	SOUKA
1-2	<input checked="" type="checkbox"/>	482.000	2	2	2	SOUKA
1-3	<input checked="" type="checkbox"/>	490.000	3	3	3	SOUKA
1-4	<input checked="" type="checkbox"/>	498.000	4	4	4	SOUKA

Bandwidth	Constellation	Coderate	Guard Interval	Transmission Mode	Symbol Rate(KS/s)	Attenuation(dB)
8M	QAM64	7/8	1/32	2K	8000	0.0

Submit

RF Enable: Enable RF or not

TSID: Transport stream ID, 1~65534

Modulation: Switch from ATSC (AIR) and J.83B (QAM). The modulator will reboot to active the modulation standard

Bandwidth: Select the bandwidth

Constellation: ATSC MODE—8VSB; QAM MODE: 64QAM or 256QAM

Symbol Rate: The software will set the best symbol rate according to the input stream

Attenuation: Output level adjustment

After all parameters set, click “Submit” to finish the settings. Then you can check the HD TV programs on your TV now.

Step 6, IP Output Settings.

As the “Output Settings” table of SKD1510 below, you should set the output address and port of each program channel. Once you connect with other devices with ethernet cable, you need these for input signal source settings.

Status
Network
TS Settings
Output Settings
OSD

Channel	Bitrate(Kbps)	Protocol	Output Address	Port	Video Encoding	Action
1	6000	UDP	239.10.0.2	10001	H264_High_Profile	
2	6000	UDP	239.10.0.2	10002	H264_High_Profile	
3	6000	UDP	239.10.0.2	10003	H264_High_Profile	
4	6000	UDP	239.10.0.2	10004	H264_High_Profile	

Output Address
Copy

udp://@239.10.0.2:10001.udp://@239.10.0.2:10002.udp://@239.10.0.2:10003.udp://@239.10.0.2:10004:

Submit

Step 7, Search the programs on your TV.

Step 8, Set OSD.

Find OSD settings table as below:

Status
Network
TS Settings
Output Settings
OSD

Subtitle
Image

Enable

☒

Vertical Position


150

Height

50


Background Color

#00ff29




Font

WqyMono




Font Color


#eb0730



Transparency



Movement Speed



Display Time

60

min

Display Interval

Custom

60

min

Submit

Text

Welcome to our Hotell Enjoy your stay!

You can edit your text for emergency inter cut or promotional advertisements.

Status
Network
TS Settings
Output Settings
OSD

Subtitle
Image

Enable

☒


Horizontal Position

200

Vertical Position

300

Transparency



Display Time

10

min

Display Interval

Custom


10

min

Submit

Image

TIPS: Image format only supports BMP, bit depth only supports 24, 32. The maximum width and height is 200 pixels.



ku mv 14 ck 5 qo.bmp

Browse

Upload

You can edit your image for emergency inter cut or promotional advertisements

**Thank you for using our
product!**