

# S101 Streaming Media Server



Dear customer

Thank you for supporting us.

The S101 streaming media server is a cutting-edge streaming media server based on Linux system for various industries with an affordable price.

It is a gear with multi-function for video processing, restreaming, and distribution, please follow the user manual and email us if you have any questions.

## ***Notice***

- Do not remove the covers of this equipment. Hazardous voltages are present within this equipment and may be exposed if the covers are removed.
- Put the gear away from the fire, water, dusty area.
- For the correct and safe use of the device, it is essential that both operating and servicing personnel follow generally accepted safety procedures in addition to the safety precautions specified in this manual.

# Table of the Contents

(hyperlink adopted)

[Status Page---](#)

[ONVIF scanner--](#)

[Network-----](#)

[Extensions---](#)

[Configure Network-](#)

[System----](#)

[RTMP----](#)

[Contact us-](#)

[Transcoding---](#)



Figure 1.1

The status of the gear displayed here visually for Monitoring

- Here you can check the status of the
- 1- CPU
  - 2- Memory of the device
  - 3- TF card
  - 4- Streaming status

Streaming Media Server

- Status
- Network**
- RTMP
- Protocol Conversion
- ONVIF
- Extension
- System

### Network 1

DHCP1:

IP1:

Netmask1:

Gateway1:

MAC1:

### Network 2

DHCP2:

IP2:

Netmask2:

Gateway2:

MAC2:

### DNS

DNS1:

DNS2:

### Multicast Output

IP Selection:

The Network configuration will be implemented here.

Figure 2.1

# Configure Network

```
C:\Users\HeShion>ipconfig

Windows IP Configuration

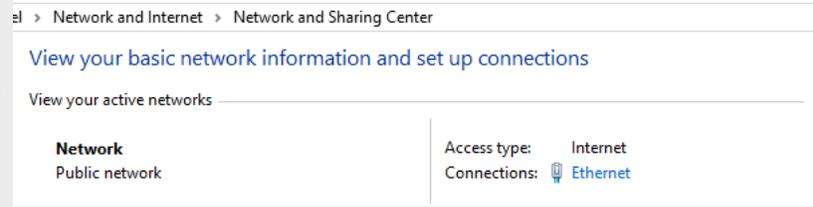
Ethernet adapter SSTAP 1:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix . . :

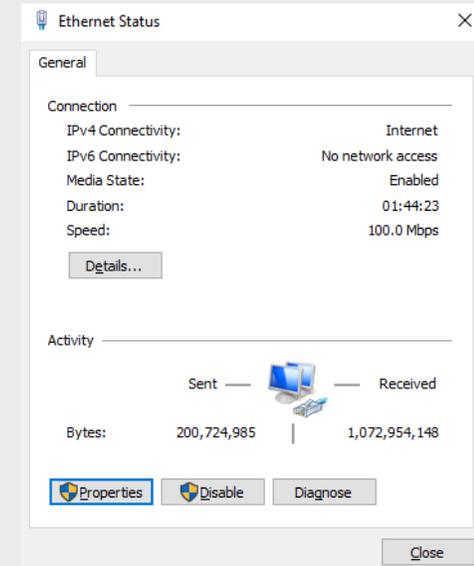
Ethernet adapter Network 1:

    Connection-specific DNS Suffix . . :
    Link-local IPv6 Address . . . . . : fe80::859f:151f:646a:ab87%
    IPv4 Address. . . . . : 192.168.0.179
```

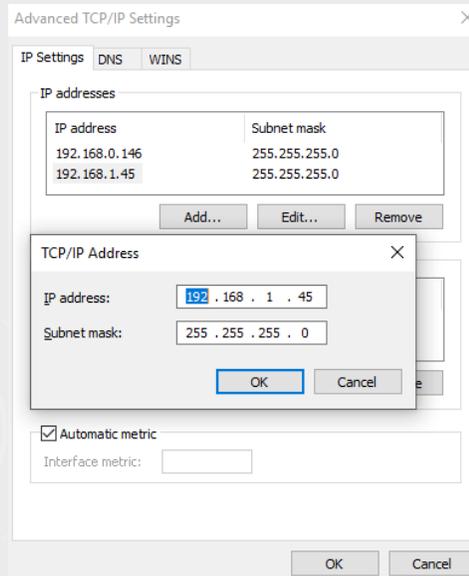
1- Get current IP  
Windows+ R → cmd  
→Enter: ipconfig  
→Get the IPv4 Add



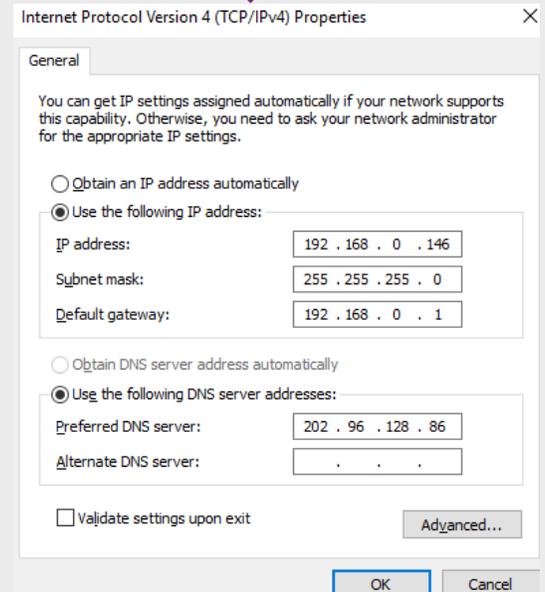
2- Enter Ethernet



3- Enter Properties



4- Enter IPV4 and fill the IPv4 address you get from the 1<sup>st</sup> step and its subnet mask and default IP gateway



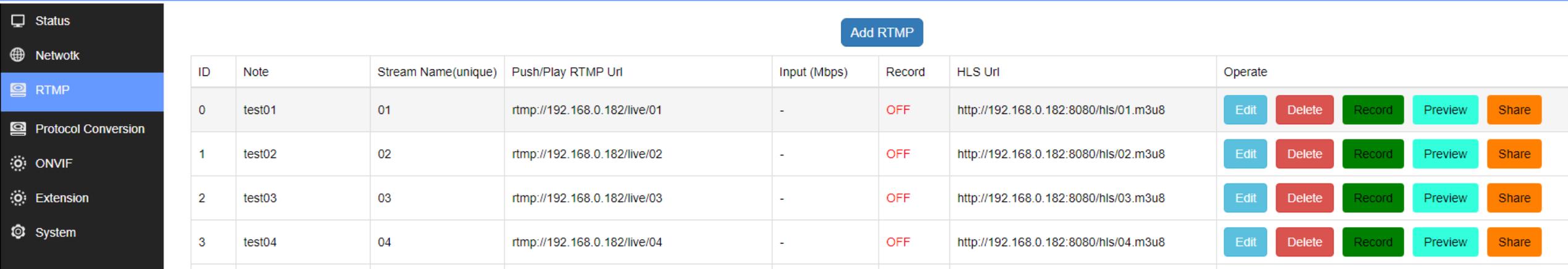
5- Enter Advanced

6- Add an available IP address @192.168.1.xxx and save all configurations.



7- Enter the default IP of the gear : 192.168.1.182

8- Adapt the network of the gear



ID	Note	Stream Name(unique)	Push/Play RTMP Uri	Input (Mbps)	Record	HLS Url	Operate
0	test01	01	rtmp://192.168.0.182/live/01	-	OFF	http://192.168.0.182:8080/hls/01.m3u8	<a>Edit</a> <a>Delete</a> <a>Record</a> <a>Preview</a> <a>Share</a>
1	test02	02	rtmp://192.168.0.182/live/02	-	OFF	http://192.168.0.182:8080/hls/02.m3u8	<a>Edit</a> <a>Delete</a> <a>Record</a> <a>Preview</a> <a>Share</a>
2	test03	03	rtmp://192.168.0.182/live/03	-	OFF	http://192.168.0.182:8080/hls/03.m3u8	<a>Edit</a> <a>Delete</a> <a>Record</a> <a>Preview</a> <a>Share</a>
3	test04	04	rtmp://192.168.0.182/live/04	-	OFF	http://192.168.0.182:8080/hls/04.m3u8	<a>Edit</a> <a>Delete</a> <a>Record</a> <a>Preview</a> <a>Share</a>

Figure 3.1

The RTMP function of the gear displays here

Here you can

- 1- Set up RTMP stream and record it
- 2- Preview the feeds
- 3- Get the sharable link for the each stream
- 4- Get the HLS address for each stream
- 5- Manage the streams

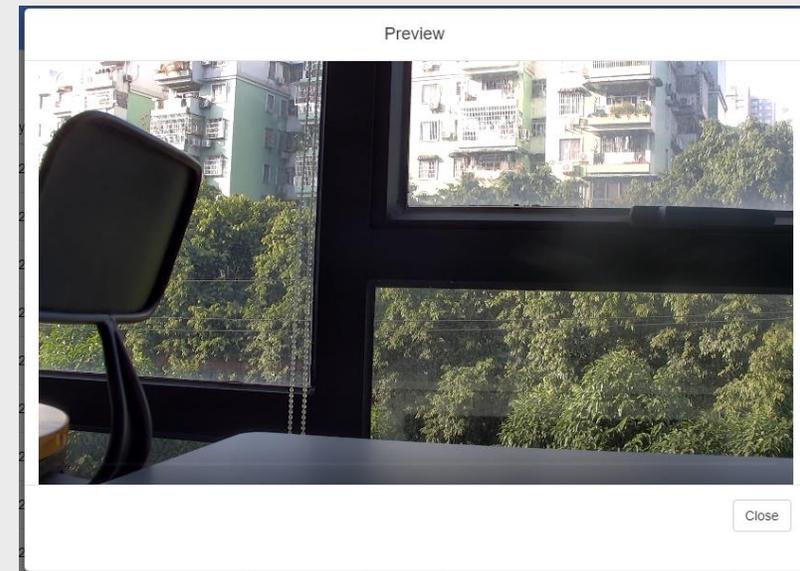


Figure 3.2

Figure 3.3-1

F 3.3-1

IP select: choose the Ethernet port for transmission.

Note: The note for each channel.

Stream name: put the stream name of the channel and the stream will be generated accordingly.

Video record: Recording the current stream.

Figure 3.3-2

F 3.3-2

There will be an RTMP streaming url generated once you create the stream, then paste it on the RTMP filed of the encoder side.

Figure 3.4

Share: In order to make the port forwarding easier, we put Port included for each stream with the **Share** function; the url can be directly opened on the browser without any plugins since we installed the player in the cloud.

Notice: The DDNS technology is achieved by adding the “port=8080” for all channels for the forwarding.

- Status
- Network
- RTMP
- Protocol Conversion
- ONVIF
- Extension
- System

Add Transcode

ID	Status	Input Url	Input (Mbps)	Output Url (unique)	Recrod	Operate
0	OFF	udp://@238.0.0.1:22302	0.00	rtmp://192.168.0.182/live/96011	OFF	<span style="background-color: #dc3545; color: white; padding: 2px 5px;">Delete</span> <span style="background-color: #28a745; color: white; padding: 2px 5px;">Record</span> <span style="background-color: #17a2b8; color: white; padding: 2px 5px;">ON/OFF</span> <span style="background-color: #17cde3; color: white; padding: 2px 5px;">Preview</span>
1	OFF	http://192.168.0.96:80/stream04	0.00	rtmp://192.168.0.182/live/96012	OFF	<span style="background-color: #dc3545; color: white; padding: 2px 5px;">Delete</span> <span style="background-color: #28a745; color: white; padding: 2px 5px;">Record</span> <span style="background-color: #17a2b8; color: white; padding: 2px 5px;">ON/OFF</span> <span style="background-color: #17cde3; color: white; padding: 2px 5px;">Preview</span>
2	OFF	srt://192.168.0.136:9022	0.00	rtmp://192.168.0.182/live/1888	OFF	<span style="background-color: #dc3545; color: white; padding: 2px 5px;">Delete</span> <span style="background-color: #28a745; color: white; padding: 2px 5px;">Record</span> <span style="background-color: #17a2b8; color: white; padding: 2px 5px;">ON/OFF</span> <span style="background-color: #17cde3; color: white; padding: 2px 5px;">Preview</span>
3	OFF	udp://@192.168.0.182:1234	0.00	rtmp://192.168.0.182/live/1123	OFF	<span style="background-color: #dc3545; color: white; padding: 2px 5px;">Delete</span> <span style="background-color: #28a745; color: white; padding: 2px 5px;">Record</span> <span style="background-color: #17a2b8; color: white; padding: 2px 5px;">ON/OFF</span> <span style="background-color: #17cde3; color: white; padding: 2px 5px;">Preview</span>

Figure 4.1

Transcoding Function displays here

Here you can set up

- 1- Transcoding from UDP/ RTMP/ SRT/ HTTP/ RTP to RTMP, RTSP, HLS, UDP out
- 2- Turn the session on/ off
- 3- Preview the stream
- 4- Manage the streams

Figure 4.2

Enter the URL of the video source, and set up the URL for output

Figure 4.3 Youtube URL

Figure 4.3-1

E.g. Transcoding from UDP to Youtube, enter the URL of the video source and then put the address From the platform, for example <rtmp://a.rtmp.youtube.com/live2/streamkey>

[Add Transcode](#)

ID	Status	Input Url	Input (Mbps)	Output Url (unique)	Recrod
24	ON	udp://@238.0.0.1:22302	0.00	rtmp://a.rtmp.youtube.com/live2/cd0r-4peg-k6a5-gmtf-cc10	OFF

Figure 4.3-1

## Playing feeds from USB

### Index of /usb/

[parent directory]

Name	Size	Date Modified
1.ts	3.5 MB	11/24/21, 8:00:00 AM
2.ts	4.2 MB	11/24/21, 8:00:00 AM
3.ts	3.3 MB	11/24/21, 8:00:00 AM
space.mp4	54.9 MB	7/5/21, 10:43:00 AM
System Volume Information/		11/22/21, 8:00:00 AM

Figure 4.4-1

The FTP function will be activated and feeds can be managed by accessing the FTP on the ui of the server.

The ts and mp4 feeds can be transcoded

### Add

Protocol Switch: OFF

Input URL: 1.ts; 2.ts; 3.ts

Output URL: rtmp://a.rtmp.youtube.com/live2/c

Recrod: OFF

Cancel Apply

Figure 4.4-2

By inputting the name of the feeds and separate each by “;”, and set up the URL for output.

Streaming Media Server

- Status
- Network
- RTMP
- Protocol Conversion
- ONVIF**
- Extension
- System

Onvif Discover

IP2 search

ID	Device IP	User	Password	RTSP url	Operate
0	http://192.168.0.188:7070/onvif/device_service			http://192.168.0.188:80/hdmi	<a href="#">Edit</a> <a href="#">Search</a>
1	http://192.168.0.181:7070/onvif/device_service			rtsp://192.168.0.181:554/hdmi	<a href="#">Edit</a> <a href="#">Search</a>
2	http://192.168.0.170:7070/onvif/device_service			udp://@238.0.0.1:1234	<a href="#">Edit</a> <a href="#">Search</a>
3	http://192.168.0.100:2000/onvif/device_service				<a href="#">Edit</a> <a href="#">Search</a>

Figure 5.1

This function is for scanning the ONVIF devices in the intranet and get its stream url

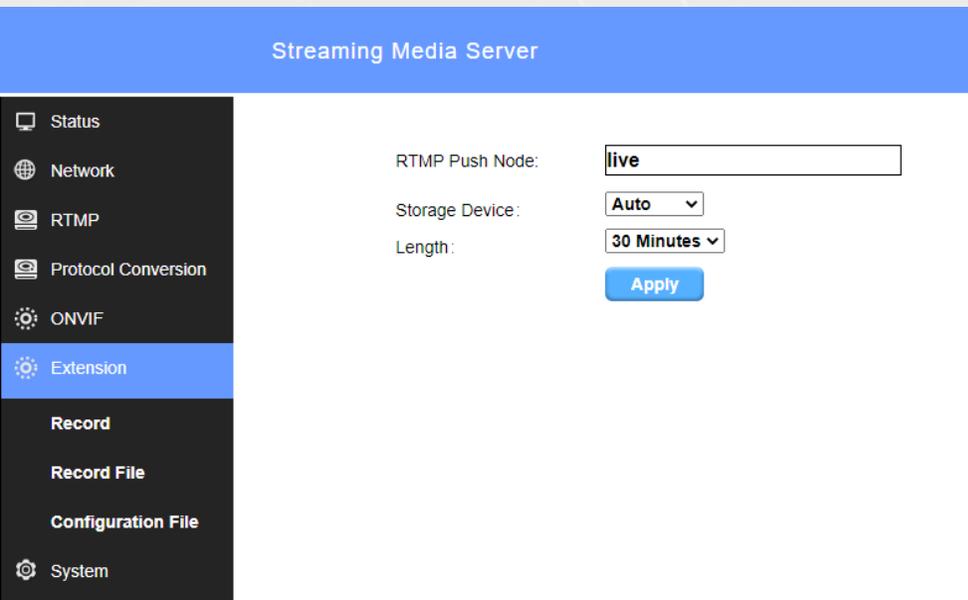


Figure 5.2 RTMP url structure

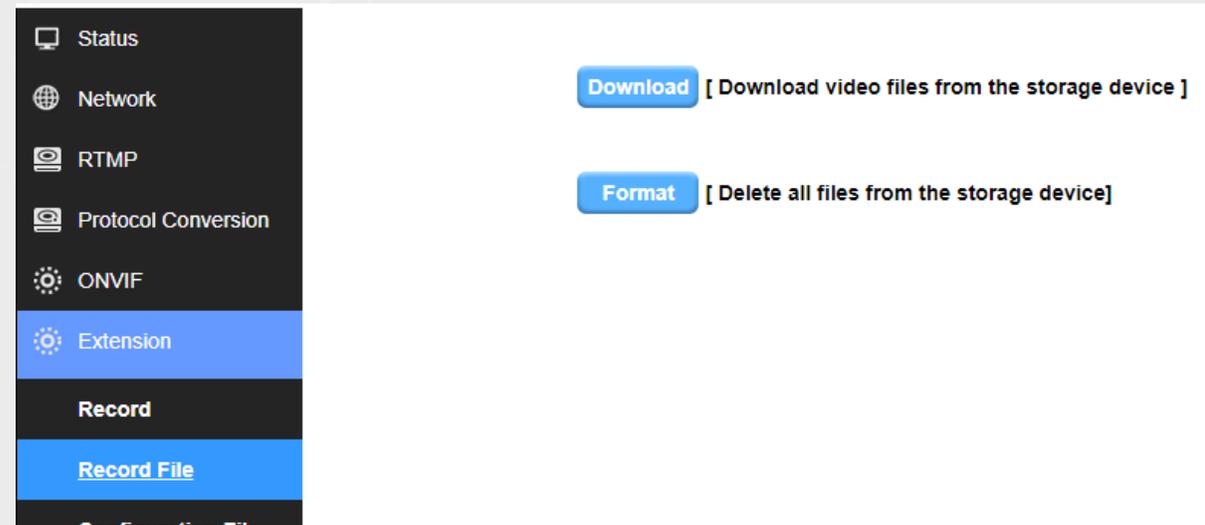


Figure 5.3 FTP

Please reset the FORMAT of the TF cards or USB devices if you that is first time used as FTP client with the server or cannot be read by the gear, and please make sure the USB device or the TF cards can be written.

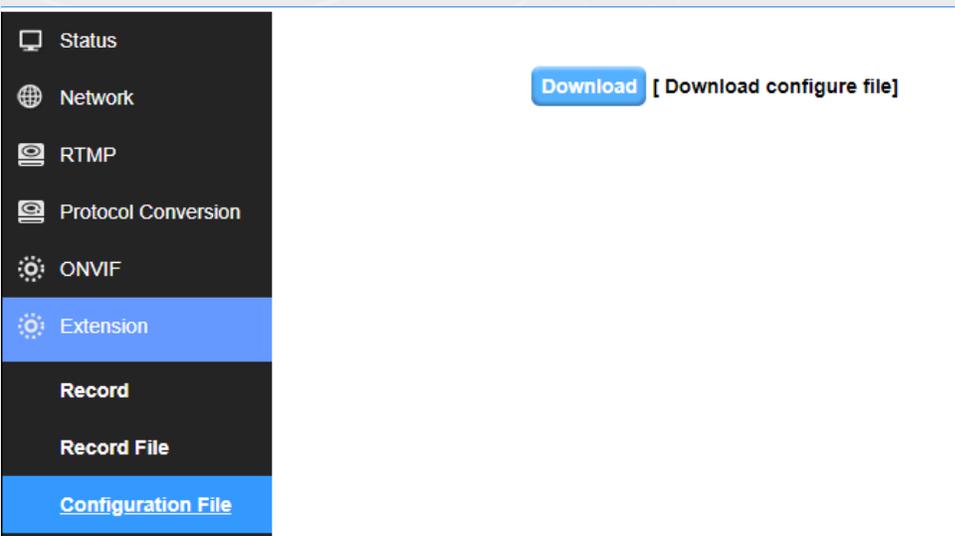


Figure 5.4 set up multiple feeds and get current settings.



Figure 5.4-1 get the doc

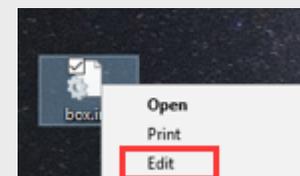


Figure 5.4-2 Edit the file



Figure 5.4-3 Segment of each channel

Streaming Media Server

- Status
- Network
- RTMP
- Protocol Conversion
- ONVIF
- Extension
- System**

System Change Password System Version Upgrade

Timing Reboot:   [0-200]Hours

Figure 6.1 Reboot interval

System Change Password System Version Upgrade

New Password:

Confirm Password:

Figure 6.2 change password

System Change Password System Version Upgrade

Firmware: **hw-2021129-server-release**

Figure 6.3 Firmware version

System Change Password System Version Upgrade

System Upgrade:  No fi...osen  
**(Firmware named upgrade.bin,do not cut off the electricity or refresh web page! )**

Figure 6.4 upgrade the device



Hansen He

Skype: hansen2570  
Mobile: +86 156 0220 2570  
Email: [hansen@hw-iptv.com](mailto:hansen@hw-iptv.com)  
EN Web: [www.hw-iptv.com](http://www.hw-iptv.com)

Shenzhen head office(R&D, production):

6th floor, block B, Hua Feng financial port, Xin'an 6th Road, BaoAn District, Shenzhen  
CN address: 深圳宝安82区新安六路华丰金融港B座6层

Guangzhou (Business center):

#403-404, 4th Floor, No.100 Ji Xian Hou Jie, YongPing subdistrict, Baiyun district,  
Guangzhou 510440, People's Republic of China  
CN address: 广州市白云区永平街道集贤后街100号1号楼403-404单元