

SOLUTIONS FOR GROWTH



nT19AX09 | SC6D0N1 AIO LITE

HDMI/SDI STREAMING / RECORDING WITH NDI CONVERSION



Operation Manual

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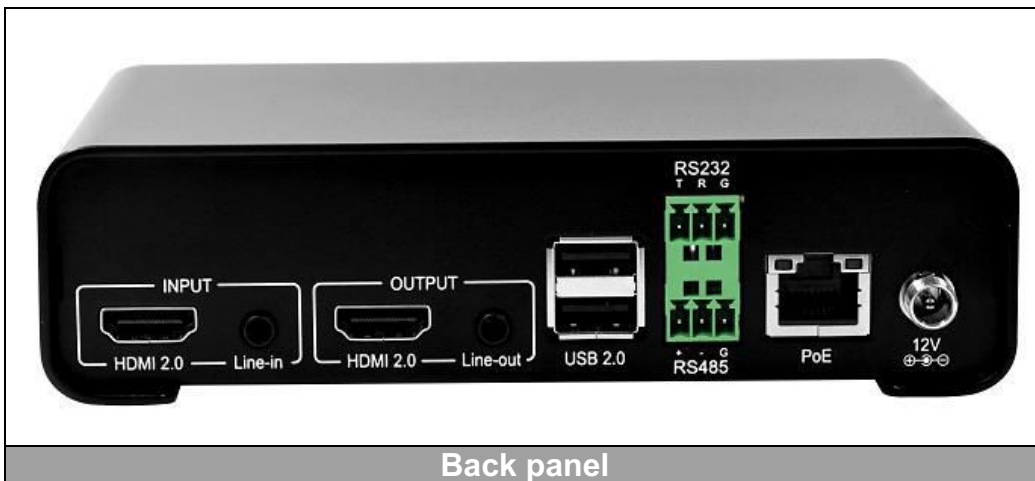
1. PRODUCT INTRODUCTION

1.1. Product Brief

SC6D0N1 HDMI2 provides HDMI 2.0 and HDMI 2.0 loop through in one device.



In front panel, SC6D0 provides USB3.0 interface for user to record input in various formats. It also provides record, stream...etc. selection button in front panel.



In back panel, SC6D0 provides RJ45 for internet, RS232/485 connectivity; SC6D0 also provides PoE for user to power the device.

User can void local UI interface by USB mouse right click, and control SC6D0 by USB keyboard/mouse.

1.2. Specification

Model	SC6D0N1 HDMI2+
Max. FPS	3840×2160p@60/50fps
Recording Mode	Hardware Compression
Product Photo	
Input Interfaces	Video 1×HDMI2.0 Audio 1×3.5mm stereo analog audio
Output Interface	Video 1×HDMI2.0 Audio 1×3.5mm stereo analog audio
Video Feature	H.265(HEVC)/H.264/AVC, Baseline/Main/High Profile Configurable Bit Rate Up to 64Mbps Support input / output resolutions 3840×2160p@60/50fps 3840×2160p@30/25/24fps 1920×1080p@60/50fps 1920×1080p@30/25/24fps 1280×720p@60/50fps 1280×1024p@60fps 1280×960p@60fps 1024×768p@60fps 800×600p@60fps 640×480p@60fps 720×480p@60fps 720×576p@50fps
Audio Feature	AAC-LC Configurable bit rate range from 32Kbps to 384Kbps Sample rate : 48KHz, 16bit, Stereo
Network Feature	1×RJ45 for 10/100/1000Mbps Ethernet DHCP client

<p>Support Streaming protocol</p>	<p>NDI Support RTSP over UDP/TCP/Multicast/HTTP RTMP public (web portal) **TS over IP **HLS ** optional by customer request</p>
<p>Misc. Features</p>	<p>Web UI for system configuration Firmware upgradable LED indicator Status with Power Recycle 1×USB3.0 (For Keyboard and mouse usage) 2×USB2.0 (For USB HID device usage) 1×RS232 + 1×RS485</p>
<p>Record Format</p>	<p>MP4 / TS / MOV</p>

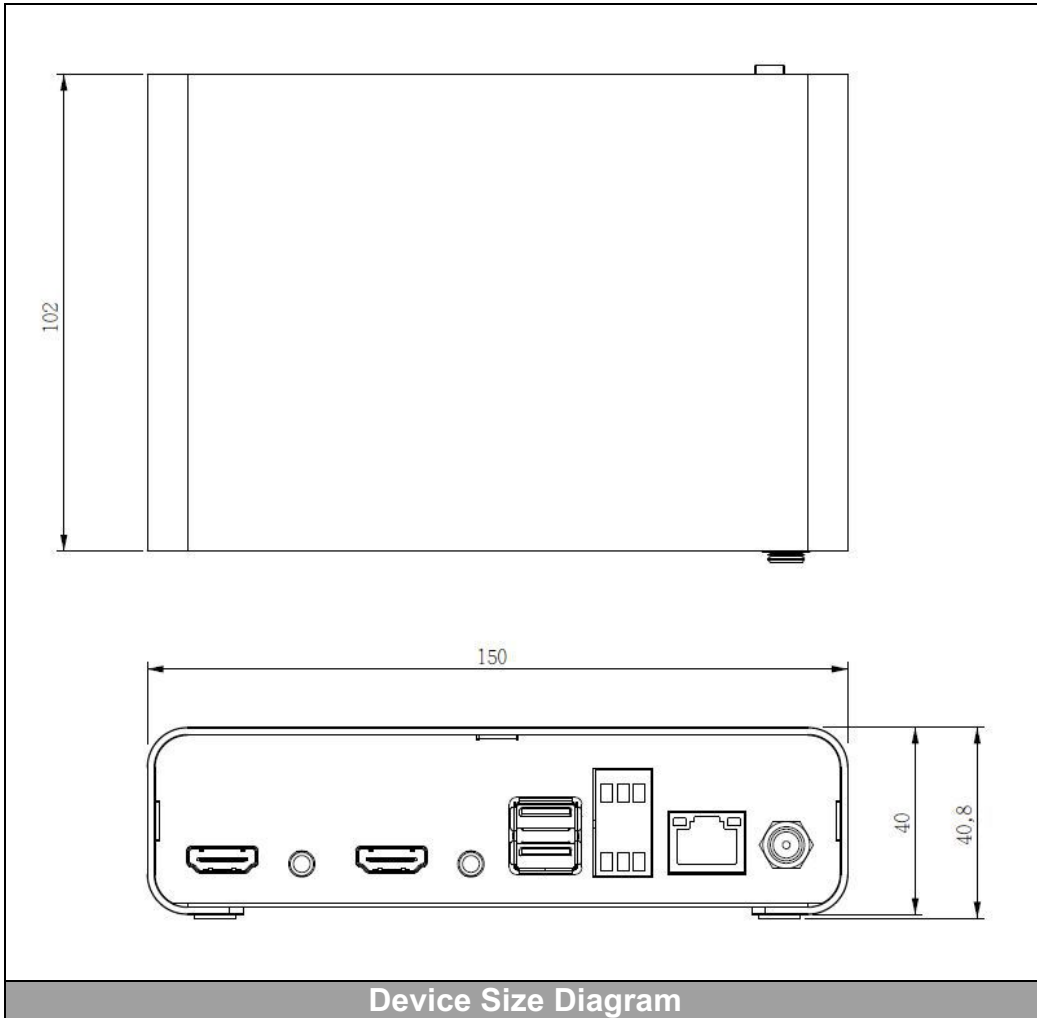
2. HARDWARE INSTALLATION

2.1. Package Contents

Item	Amount
SC6D0N1 HDMI2.0+	1
Adapter	1

2.2. Device Size

Figure below is the device size of SC6D0N1 HDMI2.0+.



3. IP Finder

For using SC6D0 Web UI, please open IP finder and search for the ip address to open control interface. The correct ip address can be distinguish by MAC address.

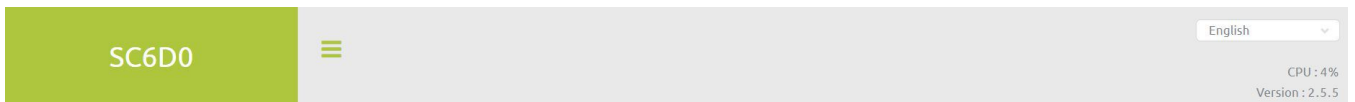
IP Address	Mac Address	FW Version	Device Name
10.10.1.250	08-00-06-1E-4A-8A	2.0.1	NIHDMI2.0+
10.10.1.279	88-C8-71-89-08-8E	2.2.3	
10.10.1.284	08-00-08-4E-00-0E	1.9.0	test333
10.10.1.209	08-00-08-C7-0E-2E		
10.10.1.213	88-C8-71-89-08-C6	2.1.0	test333
10.10.1.41	88-C8-71-89-08-8E	2.2.5	
10.10.1.204	08-00-08-4E-00-0E		

4. WEB UI

Web UI is the internet interface for user to control SC6D0 more convenient, users can control them via normal PC or portable devices (EX: Android, iPhone, iPad...etc.)

Username: admin
Password: 0000

4.1. Language / Firmware



On the top, here are web UI language selection and Firmware version / MCU version. User can change Web UI language here.

4.2. Source

Input Information	Name	Video Source	Audio Source	Resolution	Frame Rate	Channels	Bits per Sample	Sample Frequency
Channel 1		HDMI	Embed.	1920x1080p	59.94	2	16	48000

This page contains **input signal status**, **input Video Source** and **Audio Source** selection. Users can change input video property, source and check input video information here.

4.2.1. Video Source (HDMI2.0)

Video Source



Here displayed usable video input interfaces.

Video quality adjust can support on HDMI input interfaces.



4.2.2. Video Source (NDI)



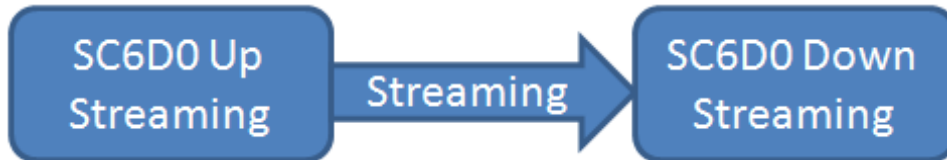
Group

Name

Delay Duration

When enter NDI feature, SC6D0 will automatically scan the same domain, NDI stream will automatically appears here.

4.2.3. Video Source (IP Stream)



For SC6D0 up streaming, please enter the **Streaming** page and follow the following information (The IP address will vary by environment, please check IP finder to make sure the IP address.).

Video Source



Source URL UDP ▾

Account Password

Delay Duration Reconnection Timeout (ms)

Here are different stream receiving setting. All supported formats are listed as below.

1.RTSP

rtsp://[account]:[passwd]@[ip]:[port]/[session name].mpg

Example: rtsp://root:root@10.10.41.228:556/session0.mpg

2.RTMP

rtmp://[ip]/[session name]

Example: rtmp://10.10.41.189/live

3.HLS

http://[ip]/hls/[CH]/[Session name].m3u8

Example: http://10.10.41.228/hls/3/session0.m3u8

4.TS Unicast

udp://[localhost]:[port]

Example: udp://10.10.41.189:556

5.TS Multicast

udp://234.0.0.1:[port]

Example: udp://234.0.0.1:556

6.NDI

NDI Name

7.SRT Listener

srt://[ip]:[port]

Example: srt://10.10.41.228:1202

Delay Duration Select delay latency for reception.

-1ms: Ultra low latency (RTSP only)

0ms: Low latency

1~1000ms: Latency

Reconnection Timeout (ms) Select time duration for timeout reconnection.

Please set the value more than 500ms

※ For Streaming example, please check **chapter 4.5** for further information.

4.2.4. Internal File (Video, Picture)

Video Source



File Source

File Replay

SC6D0 can also play files inside flash disk, please attach the flash disk and select the file to

play it.
 Support format: H264, H265
 File type: mp4, mov, ts
 Audio format: AAC

4.2.5. Audio Source

Audio Source



In audio source block, user can select audio input source from **Embedded**HDMI audio or 3.5mm audio source (Embedded audio is the same as selected video interface).

4.2.6. Input Signal Status

Input Information	Name	Video Source	Audio Source	Resolution	Frame Rate	Channels	Bits per Sample	Sample Frequency
Channel 1		HDMI	Embed.	3840x2160p	60.00	0	0	0

In input information block, user can check signal status and signal format.

4.3. Encoder

Encoder page contains **Main Encoder** and **Sub Encoder** which allows user to change video and audio encode.

4.3.1. Main Encoder/Sub Encoder

Main Encoder

Resolution <input type="text" value="Same as Input"/>	Frame Rate <input type="text" value="Same as Input"/>
Type <input type="text" value="H.264"/>	
Profile <input type="text" value="Main"/>	Level <input type="text" value="Level 41"/>
Entropy <input type="text" value="CABAC"/>	GOP <input type="text" value="5"/>
Video Bitrate (bps) <input type="text" value="8 M"/>	Custom Video Bitrate (K bps) <input type="text" value="0"/>
Crop-X <input type="text" value="0"/>	Crop-Y <input type="text" value="0"/>
Crop-Width <input type="text" value="0"/>	Crop-Height <input type="text" value="0"/>
Audio Frequency <input type="text" value="48kHz"/>	Audio Bitrate (bps) <input type="text" value="256 K"/>
Color Range <input type="text" value="Full Color"/>	

Resolution For encoders here, we provide Same as input, 4K, 1920*1080, 1280*720 and some other popular resolutions (4K Encode only available on Main Encoder)

- Same as Input
- 4K
- 1920 * 1080
- 1280 * 720
- 960 * 540
- 720 * 576
- 720 * 480
- 640 * 480
- 640 * 360
- 576 * 324
- 480 * 320
- 384 * 216
- 320 * 240
- 160 * 120

Framerate SC6D0 have same as input, 60, 50, 30, 25, 20, 15, 12.5, 10, 5, and 1 framerates for user to select

Same as Input
60.00
50.00
30.00
25.00
20.00
15.00
12.50
10.00
5.00
1.00

Type: SC6D0 have H.264 and H.265 encoder types.

H.264
H.265

Profile User can adjust here for H.264 profile selection, it supports high, main and baseline.

High
Main
Baseline

Level H264 level support, SC6D0 provides 41, 40, 32, 31, 30, 22, 21, 20, 13, 12, 11, 10, and 1b.

Level 41
Level 40
Level 32
Level 31
Level 30
Level 22
Level 21
Level 20
Level 13
Level 12
Level 11
Level 10
Level 1b

Entropy SC6D0 Support CAVLC and CABAC encoding.

CAVLC
CABAC

GOP: H264 group of pictures setting (from 255~1).

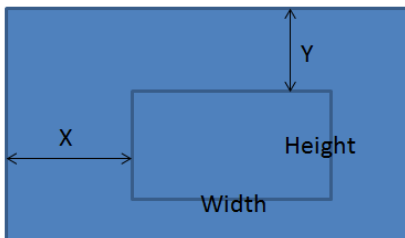
- 255
- 240
- 200
- 120
- 100
- 60
- 50
- 30**
- 25
- 20
- 15
- 10
- 5
- 3
- 2
- 1

Video Bitrate (bps) Video bitrate select (from 44K~64M)

- 64 M
- 32 M
- 24 M**
- 16 M
- 12 M
- 8 M
- 6 M
- 4 M
- 2 M
- 1 M
- 512 K
- 256 K
- 44 K
- Custom Video Bitrate (K bps)

Customize Video Bitrate User select bitrate.

Crop-X/Y/Width/Height Crop the needed video and display.



AudioFrequency Audio frequency select

- 16kHz
- 44.1kHz
- 48kHz**

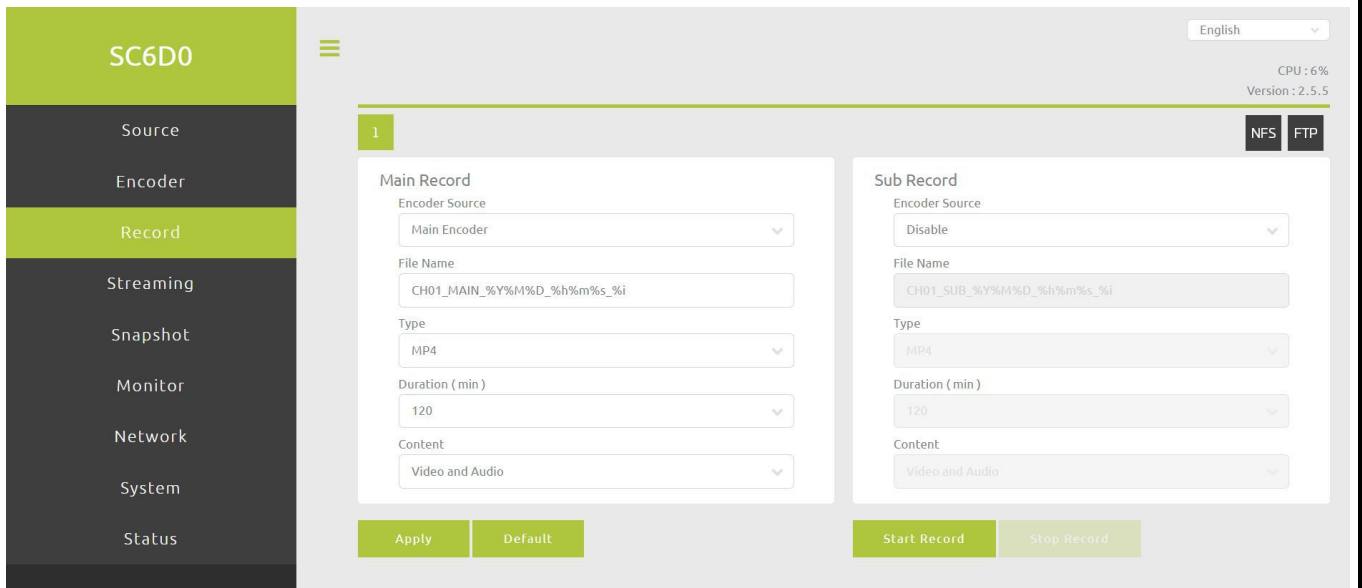
Audio Bitrate (bps) Audio bitrate select

384 K
256 K
128 K
64 K
32 K

ColorRangeSelect between Full Color or Limited Color.

Full Color
Limited Color

4.4. Record

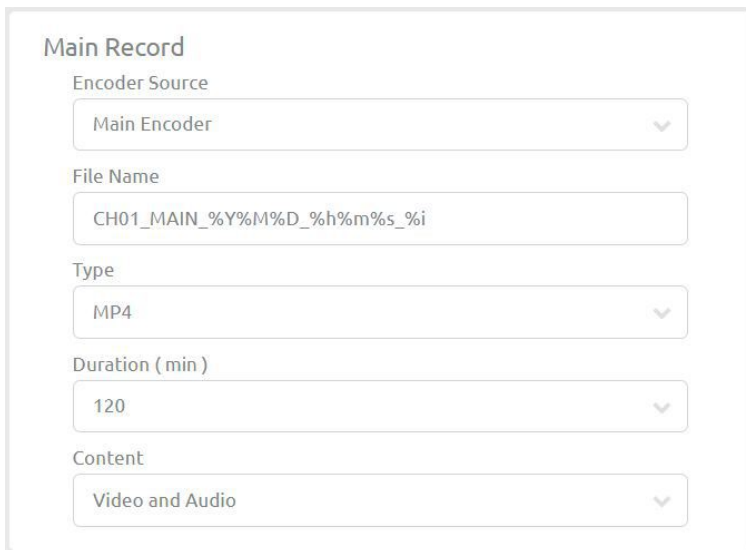


Record page allows user to change the video format that recorded to USB3.0 disk drive, the 2 block in the middle is the main record format.



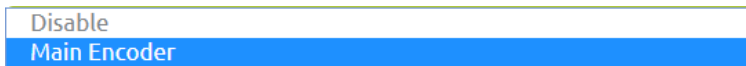
SC6D0 also provide upload feature, on the right hand side, user can check 2 icons for upload usage.

4.4.1. Main Record/Sub Record



Here are the parameters that allow user to adjust their record format.

Encoder source Select the encoder that willing to record, here are Main Encoder and disable selections.



File name The file name setting, this would be the file name recorded.

Type Decide needed file type, we offer MP4, TS and MOV at present time

MP4
TS
MOV

Duration Setting recording time, here are Unlimitation, 120, 60, 30, 5, and 1 minutes for uset to set. Recording will automatically stopped when the time is up.

Unlimited
120
60
30
5
1

Content Recorded part, user can select SC6D0 to record Video and Audio, Video only or Audio only.

Video and Audio
Video Only
Audio Only

4.4.3. Upload-NFS

NFS is a distributed file system protocol, for user to access files via network.

Setting

Host

Account

Password

Storage Mode

Storage Path

Storage ModeUser can select save mode here.

Storage Mode

- Record to Device
- Record to Device**
- Remove Record File after Upload
- Record to Device and FTP

4.4.4. Upload-FTP

SC6D0 can save files to FTP, please setup FTP site, password and accounts then select your save method.

FTP Setting

Host

Account

Password

FTP Mode

Storage Mode

Storage Path

FTP modePASV or EPSV

- PASV**
- EPSV

Storage ModeUser can select save mode here.

Storage Mode

- Record to Device
- Record to Device**
- Remove Record File after Upload
- Record to Device and FTP

4.4.5. Upload-Other Settings

On other setting block, user can check upload status and select server, check local USB disk content and filter for the file browser.

Other Setting

Uploading Status:

Server

Upload

Cancel

Delete

Refresh

Filter Type

Local USB

Filter Type Filter record files or picture only.

Filter Type

- All
- Record file only
- Picture file only

4.5. Streaming

This page contains SC6D0 streaming settings; user can decide which encoder's stream will send out and select streaming type here, the 2 block in the middle is the main streaming format.

Both Main and Sub streaming having same streaming feature.

4.5.1. RTSP Streaming

Encoder Source User can select between main encoder and sub encoder.

Streaming Type Here are RTSP, RTMP, TS, HLS, NDI, SRT and Youtube streaming type SC6D0 available.

RTSP port RTSP server port

RTSP HTTP Port RTSP HTTP server port

Account RTSP account, setting this for other users to link with RTSP mode.

Password RTSP password, setting this for other users to link with RTSP mode.

Session Name RTSP Session name.

Multicast Enable or disable multicast.

Enable: Enable multicast, using broadcast to transfer package. When multiple clients are receiving package, this setting can reduce CPU usage.

Disable: Disable multicast, using unicast to transfer package. When multiple clients are receiving package, this setting will increase CPU usage.

Content Select the willing streaming data content.

Play URL: Streaming address for other devices to receiving.

RTSP format listed as below.

rtsp://(Account)(Password)@(Source IP address)(port)/(Session name)

The screenshot shows a configuration window titled "Main Streaming". It contains several input fields and dropdown menus:

- Encoder Source:** A dropdown menu with "Main Encoder" selected.
- Stream Type:** A dropdown menu with "RTSP" selected.
- RTSP Port:** A text input field containing "554".
- RTSP HTTP Port:** A text input field containing "8554".
- Account:** A text input field containing "root".
- Password:** A text input field containing "root".
- Session Name:** A text input field containing "session0.mpg".
- Multicast:** A dropdown menu with "Disable" selected.
- Content:** A dropdown menu with "Video and Audio" selected.
- Play URL:** A text input field containing the generated URL: "rtsp://root:root@10.10.41.242:554/session0.mpg".

After the setting as above, the streaming address will be **rtsp://root:root@10.10.41.242:554/session0.mpg** (IP may differ by environment)

For **down streaming** side, please enter **source** video source **IP Stream**

Video Source



Source URL

rtsp://192.168.1.200:554/session0.mpg

UDP ▾

Account

root

Password

root

Delay Duration

0

After enter the Web UI, please setting as below (The IP address will vary by environment, please check IP finder to make sure the IP address.).

Source URL : **rtsp://root:root@10.10.41.242:554/session0.mpg**

Account : root

Password : root

User can key in Account and Password info into Source URL or key in Account and Password information on the below block.

Decode video format: H264, H265

Decode audio format: AAC

4.5.2. NDI Streaming (30 min)

Main Streaming

Encoder Source
Main Encoder

Stream Type
NDI

NDI Group
test name

NDI Name
CH1-Main

NDI Group: Device name

NDI Name: NDI streaming name

After press **Start Stream** the NDI stream can be received by NDI Tools



SC6D0 had build-in trial version of NDI streaming, which can provide user to transfer NDI streaming for 30 minutes.

4.5.3. SRT Streaming

Here are 2 modes available on SRT streaming, Caller and Listener.

SRT Listener mode turn SC6D0 into a sender, send SRT stream directly to other receivers.

SRT Format `srt://10.10.41.201:[port]`

Stream Type

SRT

Stream Type

Listener

SRT Port

1200

Passphrase

Play URL

`srt://10.10.41.201:1200`

Stream Type User can select caller or listener (Listener here)

SRT Port Setting port for streaming out.

Passphrase Setting the password for this stream.

Press to get a URL for receives; enter the URL at access point to receive the streaming

Example: `srt://10.10.41.201:1200`

SRT Caller mode turn target device as a portal, SC6D0 send SRT stream to target then the target will send device to other receivers.

SRT Format `srt://[ip]:[port]`

Stream Type

SRT

Stream Type

Caller

SRT Port

10000

Caller IP Address

Latency (20~8000 ms)

1000

Passphrase

Stream Type User can select caller or listener (Caller here)

SRT Port Setting port for streaming out.

Caller IP Address Setting streaming out IP address.

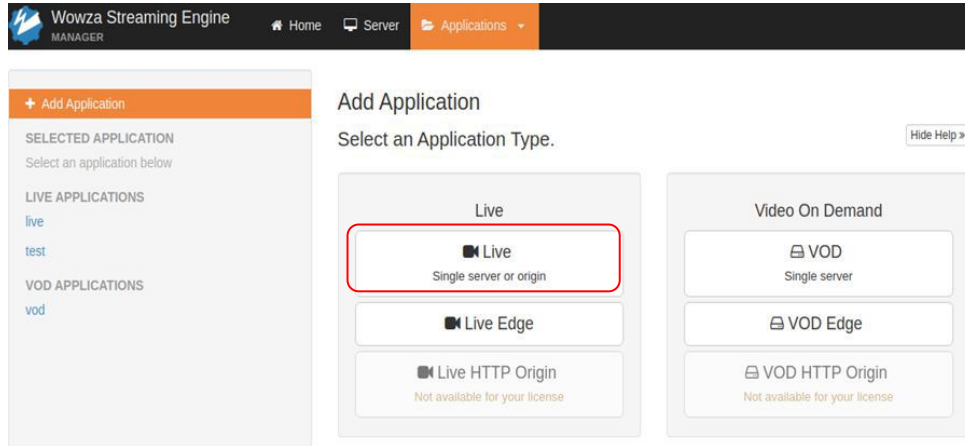
Latency Video latency time (20~8000ms)

Stream ID Setting server ID

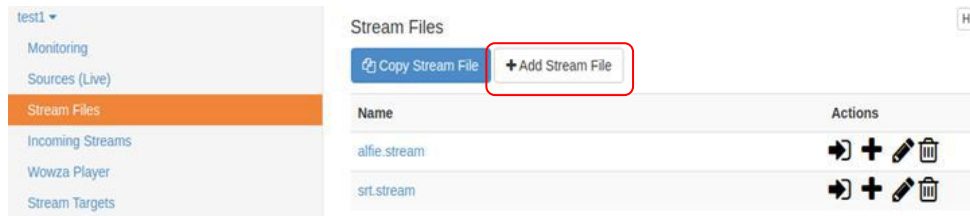
Passphrase Setting the password for this stream.

We've take Wowza as an example for demonstration on SRT Caller

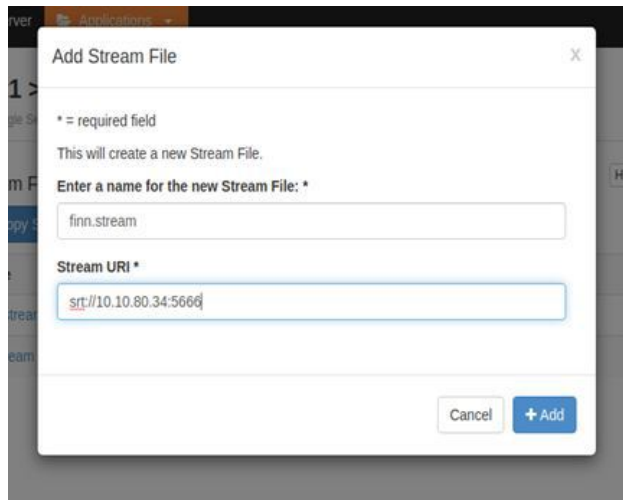
1. Select Live



2. Add Stream File

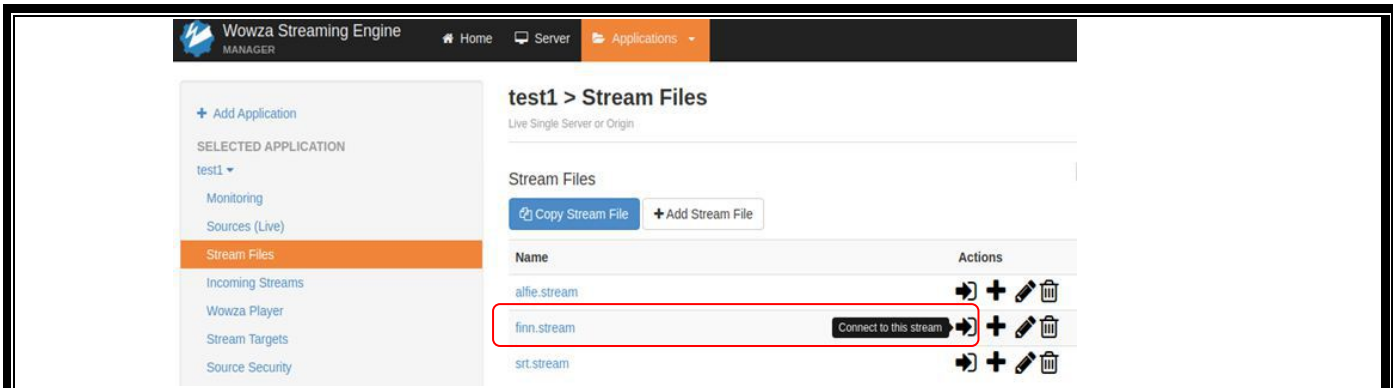


3. Set Stream File and Stream URL

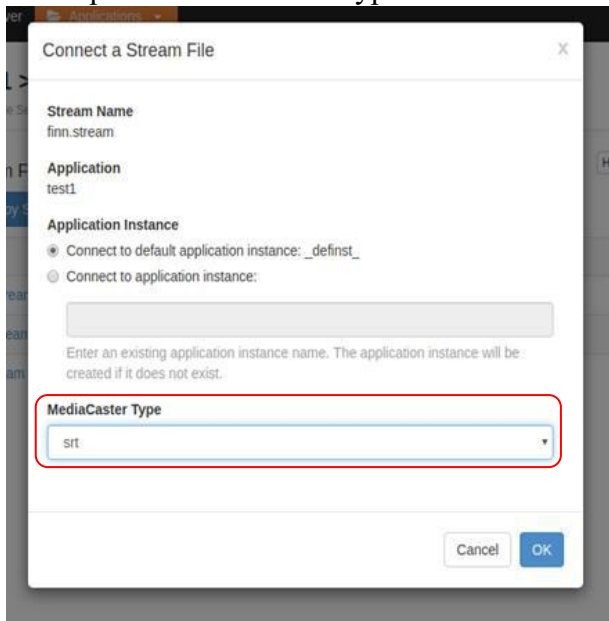


※ Stream URL is the current platform IP address.

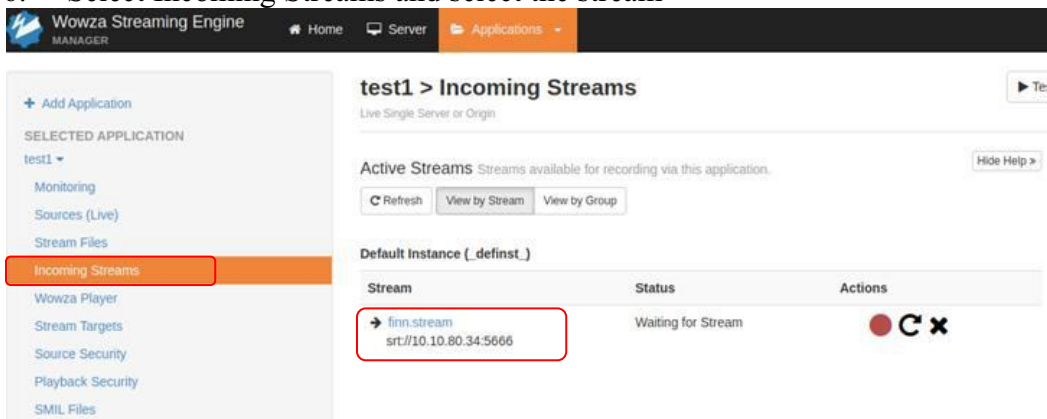
4. Select Stream and Connect



5. Update MediaCaster Type to SRT



6. Select Incoming Streams and select the stream



7. Set Caller IP Address and SRT Port to SC6D0

Main Streaming

Encoder Source
Main Encoder

Stream Type
SRT

Stream Type
Caller

SRT Port
5666

Caller IP Address
10.10.80.34

Latency (20~8000 ms)
1000

Passphrase

8. Press Start Stream and SC6D0 will start to stream the video to Wowza Server.

Stream Type
SRT

Stream Type
Caller

Caller IP Address
10.10.80.34

Passphrase

SRT Port
5666

Latency (20~8000 ms)
1000

Stream Type

RTSP Port

Account
root

Session Name

Multicast

Content

Apply Default Start Stream Stop Str

4.5.4. TS Streaming

Here are two formats TS streaming support, unicast and multicast.

For unicast, user need to provide “Client Side” IP address for TS URL, and setting a port for it.

TS unicastFormat `udp://[localhost][port]`

Example: Streaming TS to device 10.10.41.288, user need to add TS URL as below. (user can change port to willing value)

Main Streaming

Encoder Source
Main Encoder

Stream Type
TS

TS URL
udp://10.10.41.228:8888

Play URL
udp://10.10.41.228:8888

For multi cast, user needs to fill ipaddress for TS URL and giving it a port value.(The IP address range can be 224.XX.XX.XX~239.XX.XX.XX), Here is a example with 234.0.0.1.

TS multicasFormat `udp://234.0.0.1:[port]`

Example: User can set TS URL to `udp://230.0.0.1:8888` for multicast.

Main Streaming

Encoder Source
Main Encoder

Stream Type
TS

TS URL
udp://234.0.0.1:8888

4.5.5. RTMP Streaming

Main Streaming

Encoder Source

Main Encoder

Stream Type

RTMP

RTMP URL

ex: rtmp://192.168.1.88/live/stream_main_01

Account

Password

Content

Video and Audio

RTMP URL: For RTMP server address usage.

Account/Password: Setting account and password for RTMP Server, if the account and password is set, audience should have the account and password to watch the streaming content on the RTMP Server.

Content: Setting streaming out data content.

4.5.6. YouTube Streaming

Main Streaming

Encoder Source

Main Encoder

Stream Type

Youtube

Add Account

After select **Streaming Type YouTube** and press start streaming, SC6D0 will automatically generate USER CODE for user to connect with YouTube account. (Remember to allow the browser popup window for connecting YouTube)

Main Streaming

Encoder Source

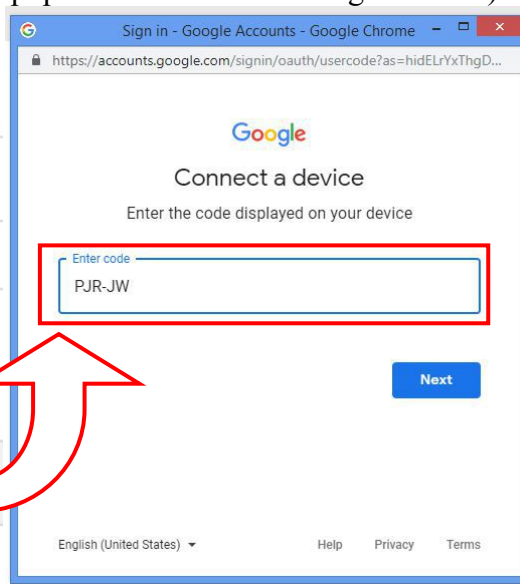
Main Encoder

Stream Type

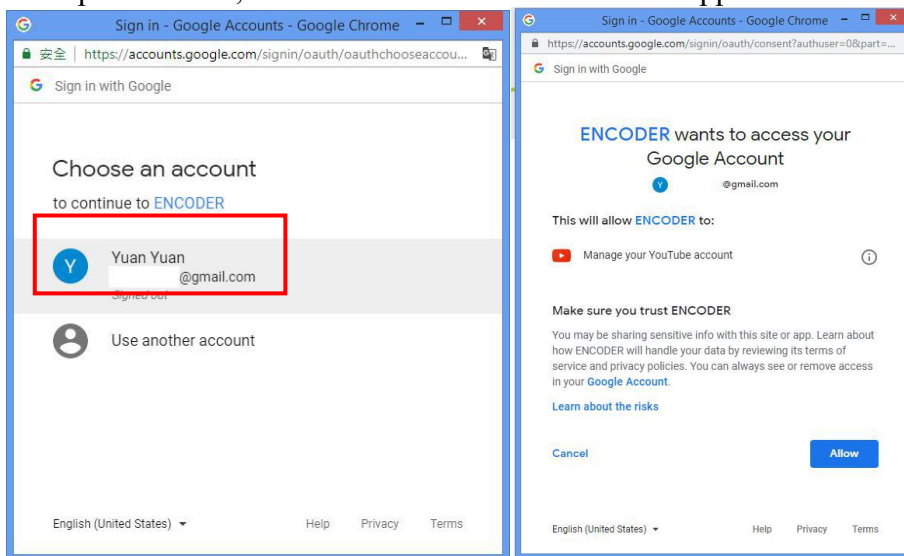
Youtube

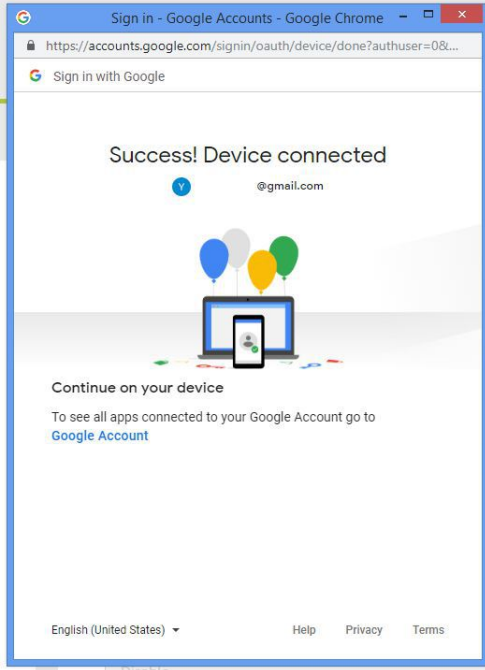
User Code

PJR-JW

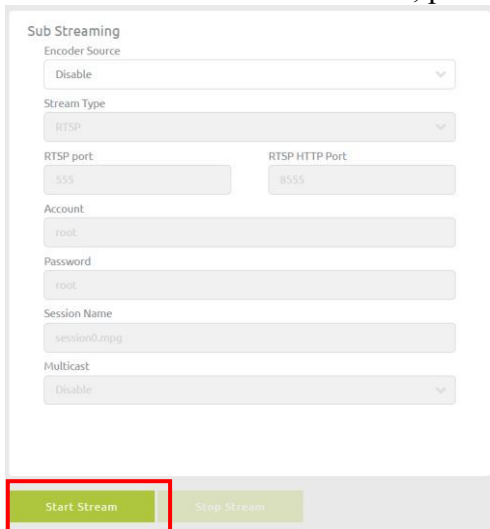


After press NEXT, the connectable user account will appear for user to select.

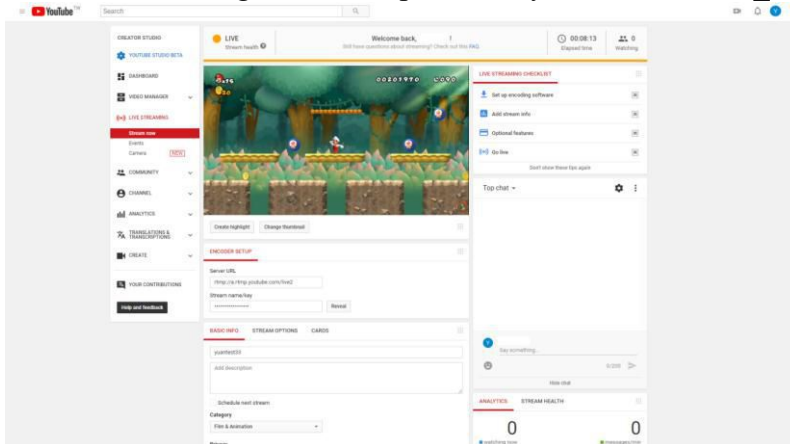




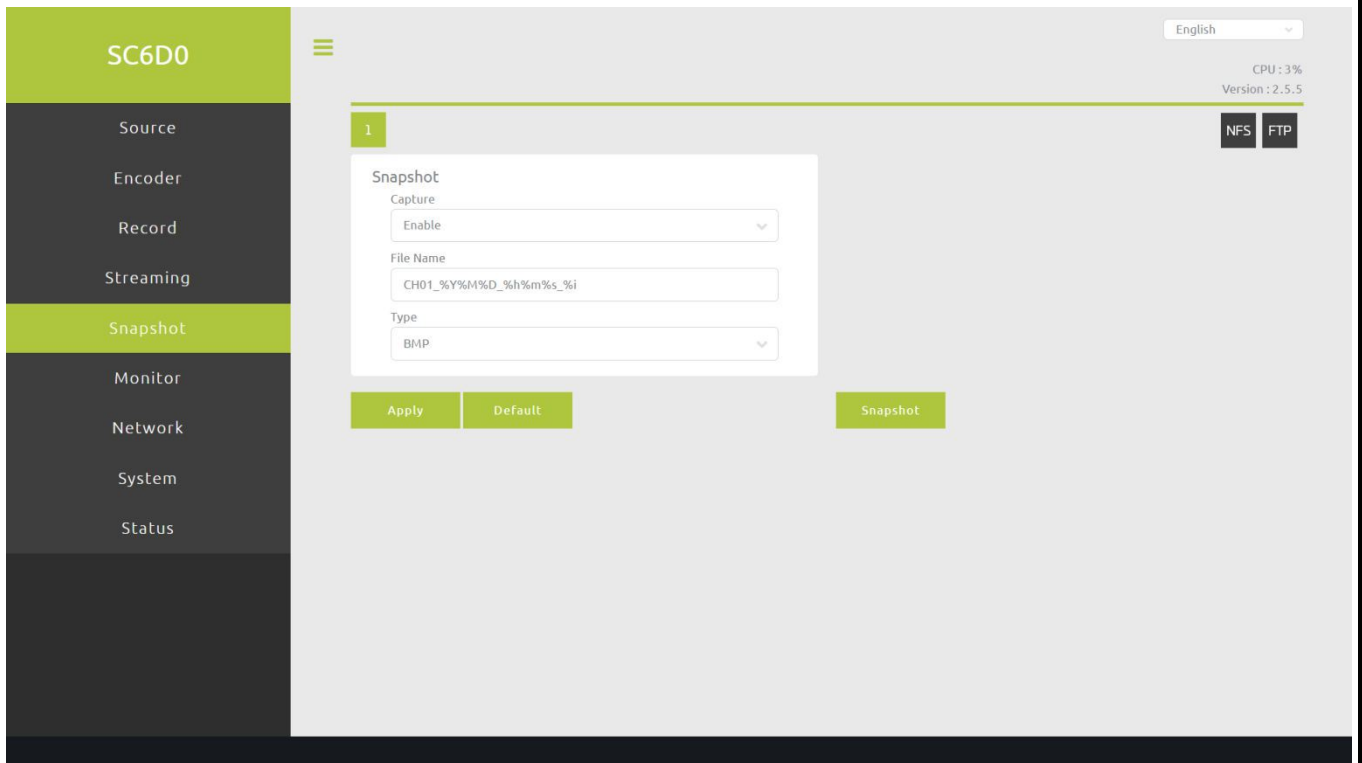
When the connection is succeed, please start streaming.



YouTube live video streaming will automatically generates after the setting is completed.
 YouTube streaming website https://www.youtube.com/live_dashboard



4.6. Snapshot



4.6.1. Snapshot

Snapshot

Capture

File Name

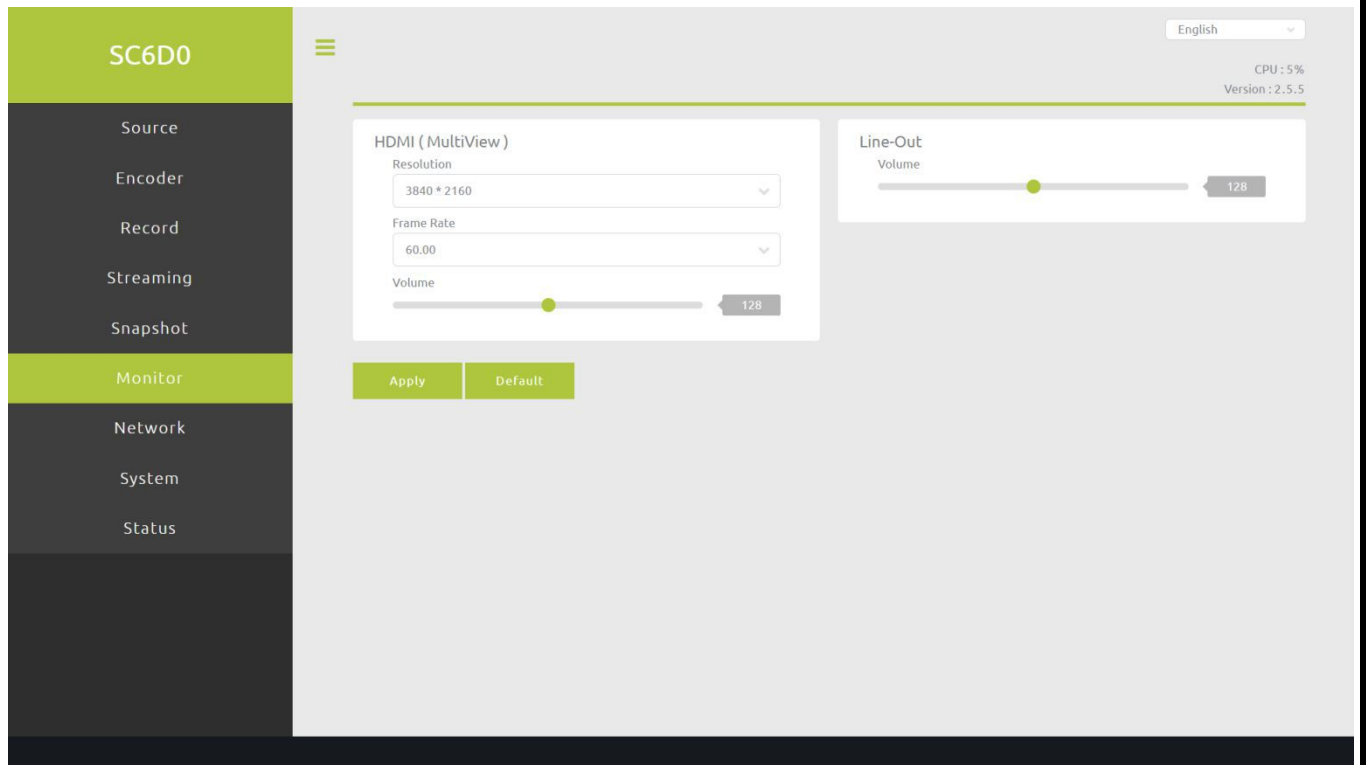
Type

Capture Select Enable or Disable capture feature.

File Name User may decide willing capture file name.

Type Select snapshot file format, SC6D0 provides BMP and JPEG for user to select

4.7. Monitor



Resolution User can select output resolution to 1080P or 4K

- 3840 * 2160
- 1920 * 1080

Fram erate User can select output framerate to 30, and 60.

- 60.00
- 30.00

4.8. Network

The screenshot displays the Network configuration page for the SC6D0 device. The interface includes a sidebar with navigation options and a main content area with two columns of settings. The left column, 'Network Settings', includes fields for DHCP (set to 'Enable'), Static IP (192.168.1.200), Subnet Mask (255.255.255.1), Default Gateway (192.168.1.1), Primary DNS (192.168.1.100), and Secondary DNS (0.0.0.0). The right column, 'Network Status', shows Host IP Address (10.10.41.242) and Network Status (Normal). Below this are sections for 'Time Setting' (Type: Automatically from the Internet), 'Account and Password' (New Account and New Password fields), and 'Timeout Period' (Type: 20 min). At the bottom of the settings area are 'Apply' and 'Default' buttons.

DHCP: Enable/disable DHCP feature. When disable DHCP, please provide necessary internet parameters for SC6C0.

Static IP. Setting SC6D0 static IP

Subnet Mask Setting SC6D0 subnet mask

Default Gateway Setting SC6D0 default gateway

Primary DNS Setting SC6D0 primary DNS

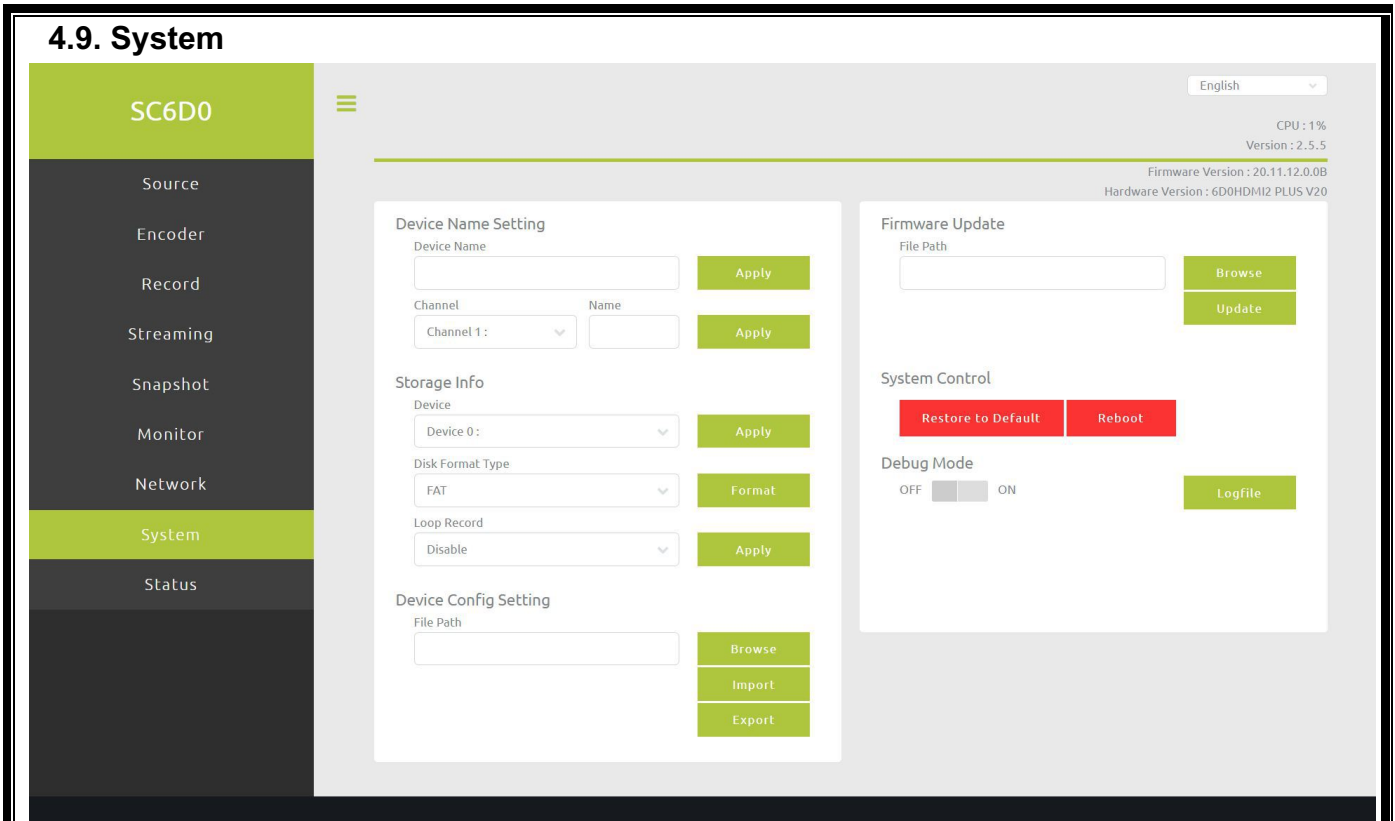
Secondary DNS Setting SC6D0 secondary DNS

Network Status Here presents IP address and network status

Time Setting Set time server and sync type.

Account and Password user can assign new account and password here.

Timeout Periods Set user using time after log in, when the time is up, the user will be logout.



In system page, user can set device name, disk format system recovery and firmware update.

4.9.1. Device name setting

Device Name Setting

Device Name

Channel Name

User can set device and channel name here.

4.9.2. Disk Format

Device Format Type

User can format attached USB disk drive here, supported formats are listed as below.

- FAT
- NTFS
- exFAT
- EXT4

4.9.3. Device Config Setting

Device Config Setting

File Path

User can save the setting or load previous settings here.

4.9.4. Firmware Update

Firmware Update

File Path

Browse

Update

Please press **Browse** button to select firmware and **Update** button to update it, **during update firmware, please do not turn off power and wait until upgrade progress complete.**

4.9.5. System Control

System Control

Restore to Default

Reboot

Restore to default will erase all settings and back to original, and Reboot button will restart the SC6D0.

4.9.6. Debug Mode

Debug Mode

OFF ON

4.10. Status

SC6D0

English

CPU : 5%
 Version : 2.5.5

Source
Encoder
Record
Streaming
Snapshot
Monitor
Network
System
Status

Input Information

	Name	Video Source	Audio Source	Resolution	Frame Rate	Channels	Bits per Sample	Sample Frequency
Channel 1		HDMI	Embed.	1920x1080p	59.94	2	16	48000

Record Status

		Encoder Source	Resolution	Frame Rate	Video Bitrate (bps)	Audio Bitrate (bps)
Channel 1	Main	NA	NA	NA	NA	NA
	Sub	NA	NA	NA	NA	NA

Stream Status

		Encoder Source	Resolution	Frame Rate	Video Bitrate (bps)	Audio Bitrate (bps)
Channel 1	Main	Main	1920x1080p	59.94005994005994	8M	256K
	Sub	NA	NA	NA	NA	NA

Disk Information

	Name	Size	Format Type	Time Left	Status
Device	NA	NA	NA	NA	NA

User can check SC6D0 status here (Including input signal, streaming status, etc.)

5. VERSION

5.1. Version 1.0

Initial version.

5.2. Version 1.1

Update spec.

Update stream type.

5.3. Version 1.2

Update support video format.

5.4. Version 1.3

Add Stream info.

5.5. Version 1.4

Update spec to V2.5.5

5.6. Version 1.41

Update USB2.0 description