



SOLUTIONS FOR GROWTH

nT19AX09 | SC6DON1 AIO LITE HDMI/SDI STREAMING / RECORDING WITH NDI CONVERSION



Operation Manual

TABLE OF CONTENTS	
1. PRODUCT INTRODUCCIN	4
1.1. Product Brief	
1.2. Specification	5
2. HARDWARE INSTALLAION	7
2.1. PACKAGE CONTENTS	7
2.2. Device Size	7
3. IP FINDER	8
4. WEB UL	9
4.1. Language / Firmware	9
4.2. Source	
4.2.1. Video Source (HDMI2.0)	
4.2.2. Video Source (NDI)	
4.2.3. Video Source (IP Stream)	
4.2.4. Internal File (Video. Picture).	
4.2.5. Audio Source	
4.2.6. Input Signal Status	
4.3. ENCODER	13
4.3.1. Main Encoder/Sub Encoder	
4.4. RECORD	
4.4.1. Main Record/Sub Record	
4.4.3. UploadNFS	
4.4.4. UploadFTP	
4.4.5. UploadOther Settings	
4.5. STREAMING	
4.5.1. RTSP Streaming	
4.5.2. NDI Streaming (30 min.)	
4.5.3. SRT Streaming	
4.5.4. TS Streaming	
4.5.5.RTMP Streaming	
4.5.6. YouTube Streaming	
4.6. SNAPSHOT	
4.6.1. Snapshot	
4.7. Monitor	
4.8. Network	
4.9. System	
4.9.1. Device name setting	
4.9.2. Disk Format	
4.9.3. Device Config Setting	
4.9.4. Firmware Update	
4.9.5. System Control	
4.9.6. Debug Mode	
4.10. Status	
	40
J. VERJUN	40

T



5.1. VERSION 1.0	
5.2. Version 1.1	
5.3. VERSION 1.2	
5.4. VERSION 1.3	
5.5. VERSION 1.4	
5.6. VERSION 1.41	



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.

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1.2. Spec	cification	
	Model	SC6D0N1 HDMI2+
	Max. FPS	3840×2160p@60/50fps
	Recording Mode	Hardware Compression
	Product Photo	Record Snapshot Stream Wi-Fi AP Lock USB 3.0 USB 3.0
		RS232 T R G T
	Input	
	Interfaces	1×HDMI2.0
		1×3 5mm stereo analog audio
	Output	Video
	Interface	1×HDMI2.0
		Audio
		1×3.5mm stereo analog audio
	Video	H.265(HEVC)/H.264/AVC, Baseline/Main/High
	Feature	Profile
		Configurable Bit Rate Up to 64Mbps
		Support input / output resolutions
		3840×2160p@60/50fps
		304U*210UP(U3U/23/24IPS 1020×1080n@60/50fns
		1920×1000p@00/30/ps
		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	AAC-LC
	Feature	Configurable bit rate range from 32Kbps to 384Kbps
	Noturel	Sample rate : 48KHZ, 16DIT, Stereo
	Feature	DHCP client
	reature	



Support	NDI Support	1
Streaming	RTSP over UDP/TCP/Multicast/HTTP	
protocol	RTMP public (web portal)	
	**TS over IP	
	**HLS	
	** optional by customer request	
Misc.	Web UI for system configuration]
Features	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	
Record Format	MP4 / TS / MOV	



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
00001250	0548053844444	2.0.1	N1HDMI2.0+
10.001299	2010/01/01 00:06 485	2.2.3	
10.0031204	00-00-00-00-00-00	1.9.0	test333
10.011.029	01.00001.0001.01		
30.001213	38435314844404	2.1.0	test333
3.3.4.4	2010/01/01 00:001420	2.2.5	
10.00.00.000	00000000000		



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.)



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

SC6D0	≡							Eng	Lish CPU : 4%
Source	1								Version : 2.5.5
Encoder	Video Source						Audio Sourc	e	
Record		(()) Endowed Stream Video					Embed.	O ine-In	
Streaming	Brightness		•		128				
Snapshot	Contrast		•		128				
Monitor	Hue		•		128				
Network	Saturation				128				
System	Apply	Default							
Status	Input Information	Name	Video Source	Audio Source	Resolution	Frame Rate		Bits per Sample	Sample Frequency
	Channel 1		HDMI	Embed.	1920x1080p	59.94	2	16	48000

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



y scan the s		
y scan the s		
SC6D0 Strea mingpage a nent, please	0 Dow aming e and foll- se check]	yn g llow the fa c IP finder
	UDP 🗸	
SC6 St ming nent, p	SD re	5D0 Dov reamin page and fo lease check



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) **Oms:** Low latency 1~1000ms: Latency

Reconnection Timeout (mS) elect time duration for timeout reconnection. Please set the value more than 500ms

X For Streaming example, please check **chapter 4.5** or further information.

4.2.4. Internal File (Video, Picture)

HDMI NDI Stream Video	
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			

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



SCODU	=			
				Version
Source	1			
Encoder	Main Encoder		Sub Encoder	
Bacard	Resolution	Frame Rate	Resolution	Frame Rate
Record	Туре		Туре	
Streaming	H.264 🗸		H.264 🗸	
Snapshot	Profile	Level	Profile	Level
	Main	Level 41	Main	Level 41
MONICOF	CABAC	GOP	CABAC	GOP
Network	Video Bitrate (bps)	Custom Video Bitrate (K bps)	Video Bitrate (bps)	Custom Video Bitrate (K bps)
System	8 M 🗸		8 M 🗸	
System	Crop-X	Crop-Y	Crop-X	Crop-Y
Status	0	0	0	0
	Crop-Width	Crop-Height	Crop-Width	Crop-Height
	Audio Frequency	Audio Bitrate (bps)	Audio Frequency	Audio Bitrate (bps)
	48kHz 🗸	256 К 🗸	48kHz 🗸	256 К 🗸
	Color Range		Color Range	
	Full Color 🗸 🗸		Full Color 🗸 🗸	
Encoder page of and audio enco	Apply Default contains Main Encod ode.	erand Sub Encoc	der which allows use	er to change vid
Encoder page of and audio enco	Apply Default contains Main Encod ode.	erand Sub Encoc	der which allows use	er to change vid
Encoder page of and audio enco	Apply Default contains Main Encod ode.	erand Sub Encoc	ler which allows use	er to change vide
Encoder page of and audio enco	Apply Default contains Main Encod ode.	erand Sub Encoc	ler which allows use	er to change vide
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Encoder page of and audio enco	Apply Default contains Main Encod ode.	erand Sub Encoc	ler which allows use	er to change vide
Encoder page of and audio enco	Apply Default contains Main Encod ode.	erand Sub Encoc	der which allows use	er to change vide
Encoder page of and audio enco	Apply Default contains Main Encod ode.	erand Sub Encoc	ler which allows use	er to change vide
Encoder page of and audio enco	Apply Default contains Main Encod ode.	erand Sub Encoc	ler which allows use	er to change vid
Encoder page of and audio enco	contains Main Encod ode.	erand Sub Encoc	der which allows use	er to change vide
Encoder page of and audio enco	ode.	erand Sub Encoc	der which allows use	er to change vide
Encoder page of and audio enco	Apply Default contains Main Encod ode.	erand Sub Encod	der which allows use	er to change vid
Encoder page of and audio enco	Apply Default contains Main Encod ode.	erand Sub Encoc	ler which allows use	er to change vid
Encoder page of and audio enco	Apply Default contains Main Encod ode.	erand Sub Encoc	der which allows use	er to change vid
Encoder page of and audio enco	ontains Main Encod ode.	erand Sub Encoc	der which allows use	er to change vid
Encoder page of and audio enco	ode.	erand Sub Encod	der which allows use	er to change vide
Encoder page of and audio enco	Apply Default contains Main Encod ode.	erand Sub Encod	der which allows use	er to change vide
Encoder page of and audio enco	Apply Default contains Main Encod ode.	erand Sub Encoc	ler which allows use	er to change vide
Encoder page of and audio enco	Apply Default contains Main Encod ode.	erand Sub Encoc	der which allows use	er to change vide
Encoder page of and audio enco	ontains Main Encod ode.	erand Sub Encod	der which allows use	er to change vide
Encoder page of and audio enco	ontains Main Encod ode.	erand Sub Encod	der which allows use	er to change vide

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4.3.1.

n Encoder		
Resolution	Frame Rate	
Same as Input	Same as Input	Y
Туре		
H.264		
Profile	Level	
Main 🗸	Level 41	v.
Entropy	GOP	
CABAC	5	×
Video Bitrate (bps)	Custom Video Bitrate (K bps)	5)
8 M 🗸		
Сгор-Х	Сгор-Ү	
0	0	
Crop-Width	Crop-Height	
0	0	
Audio Frequency	Audio Bitrate (bps)	
48kHz 🗸	256 K	×
Color Range		
Full Color 🗸 🗸		

ResolutionFor 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 adjuse 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.

CABAC

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

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V	ПП	Δ	N	Π
Л	U	A	TV	U

200	
240	
200	
120	
100	
60	
50	
30	
25	
25	
20	
20 15	
20 15 10	
20 15 10 5	
20 15 10 5 3	
20 15 10 5 3 2	

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 BitrateUser select bitrate.

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



AudioFrequencyAudio 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		
SC6D0	=	English CPU : 6% Version : 2.5.5
Source	1	NFS FTP
Encoder	Main Record Encoder Source	Sub Record Encoder Source
Record	Main Encoder	✓ Disable ✓
Streaming	File Name CH01_MAIN_%Y%M%D_%h%m%s_%i	File Name CH01_SUB_%Y%M%D_%h%m%s_%i
Snapshot	Type MP4	Туре
Monitor	Duration (min)	Duration (min)
Network	120 Content	Content
System	Video and Audio	Video and Audio
Status	Apply Default	Start Record Stop 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.

NFS FTP

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

Encoder Source	
Main Encoder	\sim
File Name	
CH01_MAIN_%Y%M%D_%h%m%s_%i	
Туре	
MP4	\sim
Duration (min)	
120	~
Content	
Video and Audio	~

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

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

Disable Main Encoder

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

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

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	
Stroage Mode	
Record to Device	~
Stroage Path	

Storage ModeUser can select save mode here.

Stroage Mode	
Record to Device	\sim
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.

_	-	-						
-	D	5	0	F	hι	n	0	
		0	C	L	C1	11	ч	
							-	

Host	
10.10.80.132	
Account	
Ryan	
Password	

TP Mode	
PASV	\sim
Stroage Mode	
Record to Device	×.
Stroage Path	
FTP_RYAN	

FTP mode PASV or EPSV



Storage ModeUser can select save mode here.

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.



Filter Type Filter record files or picture only.

Filter Type	
All	~
All	
Record file only	
Picture file only	



4.5. Streaming					
SC6D0	=				English CPU : 15% Version : 2.5.5
Source	1				
Encoder	Main Streaming Encoder Source			Sub Streaming Encoder Source	
Record	Main Encoder		×	Disable	~
	Stream Type			Stream Type	
Streaming	RTSP		~		
Snanshot	RTSP Port	RTSP HTTP Port		RTSP Port	RTSP HTTP Port
Shipshot	554	8554			
Monitor	Account	Password		Account	Password
	root	root			
Network	Session Name			Session Name	
Sustem	session0.mpg	session0.mpg			
Jystem	Multicast			Multicast	
Status	Disable		×		
	Content			Content	
	Video and Audio		~		
	Play URL				
	rtsp://root:root@10.10.4	41.242:554/session0.mpg			
	Apply Defaul			Start Stream	stop Stream

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

Main Encoder	
Stream Type	
RTSP	
RTSP Port	RTSP HTTP Port
554	8554
Account	Password
root	root
Session Name	
session0.mpg	
Multicast	
Disable	
Content	
Video and Audio	
Play URL	
rtsp://root:root@10.10	.80.111:554/session0.mpg

Encoder SourcéJser 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 HTTPPort RTSP HTTP server port

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

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

Session Name TSP Session name.

Multicast Enable or disable multicast.

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

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

Content Select the willing streaming data content.

Play URL: Streaming address for other devices to receiing.

RTSP format listed as below.

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

Main Encoder	~
Stream Type	
RTSP	~
RTSP Port	RTSP HTTP Port
554	8554
Account	Password
root	root
Session Name	
session0.mpg	
Multicast	
Disable	~
Content	
Video and Audio	~
Play URL	

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



or down streamingi de, p	olease enter sourcøvideo	sourcelP
HDMI DVI YPbPr VGA	S-Video CVBS NDI Str	eam Video
ource URL		
Account	Password	0DP V
root	root	
Delay Duration		

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	v.
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://10.10.41.20:[port]

Stream Type	
SRT	Ý
Stream Type	SRT Port
Listener 🗸 🗸	1200
Passphrase	
Play URL	
srt://10.10.41.201:1200	
Contract of the second second second second	

Stream TypeUser 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://io.10.41.201:1200

SRT Callermode 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]

SKI	~
Stream Type	SRT Port
Caller 🗸 🗸	10000
Caller IP Address	Latency (20~8000 ms)
	1000
Passphrase	

Stream TypeUser 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
Passphras Setting the password for this stream.



MANAGER	A Home 🖵 Server 🖻 Applications 👻	
+ Add Application	Add Application	
SELECTED APPLICATION Select an application below	Select an Application Type.	Hide Help »
LIVE APPLICATIONS	Live	Video On Demand
test	Live	
VOD APPLICATIONS	Single server or origin	Single server
vou	Live Edge	🖨 VOD Edge
	Live HTTP Origin	VOD HTTP Origin Not available for your license
2. Add Stream F	ile	He
Monitoring	Stream File +Add Stream File	1.454
Sources (Live) Stream Files	Name	Actions
Incoming Streams	alfie.stream	→) + / 🛍
Wowza Player		
Stream Targets 3. Set Stream File	and Stream URL	→ + 🖋 🖮
Stream Targets 3. Set Stream File 4. Add Stream File * = required field This will create a new Stream File * = tream for the new Stream finn.stream Stream URI * str_1/10.10.80.34:5666	srtstream and Stream URL	+) + 🖋 📾
Stream Targets 3. Set Stream File 4. Add Stream File * = required field This will create a new Stream File finn.stream Stream URI * str_110.10.80.34:5666	srtstream URL	+) + ♪ fi

27/40



SELECTED ADDI ICATION	Live Single Server or Origin		
test1 -	Stream Files		
Monitoring	Add Stream File		
Sources (Live)		Antiona	
Incoming Streams	alfe stream	Actions	
Wowza Player	finn stream	Connect to this stream	
Stream Targets	eff stream		
5. Update MediaCas	ster Type to SRT		
Connect a Stream File			
Stream Name finn.stream			
Application test1	16		
 Connect to default application instance 	a: _definst		
 Connect to application instance: 			
ean			
Enter an existing application instance am created if it does not exist.	name. The application instance will be		
MediaCaster Type			
srt	*		
 6. Select Incoming S Wowza Streaming Engine 	Cancel OK	m	
MANAGER			
+ Add Application	test1 > Incoming Streams		► Tes
to ball the second of the second			(1111-11-1)
SELECTED APPLICATION	Active Streams Streams available for record	ding via this application.	Hide Help >
SELECTED APPLICATION test1 - Monitoring	C Refresh View by Stream View by Group		
SELECTED APPLICATION test1 - Monitoring Sources (Live)			
SELECTED APPLICATION test1 = Monitoring Sources (Live) Stream Files	Default Instance (_definst_)		
SELECTED APPLICATION test1 = Monitoring Sources (Live) Stream Files Incoming Streams Wowza Player	Default Instance (_definst_) Stream	Status Actions	
SELECTED APPLICATION test1 = Monitoring Sources (Live) Stream Files Incoming Streams: Wowza Player Stream Targets	Default instance (_definst_) Stream finn.stream srt//10.10.80.34:5666	Status Actions Waiting for Stream	×
SELECTED APPLICATION test1 = Monitoring Sources (Live) Stream Files Incoming Streams Wowza Player Stream Targets Source Security Playback Sciencity	Default Instance (_definst_) Stream → finn.stream srt.//10.10.80.34:5666	Status Actions Waiting for Stream	×
SELECTED APPLICATION test1 = Monitoring Sources (Live) Stream Files Incoming Streams Wowza Player Stream Targets Source Security Playback Security SMIL Files	Default instance (_definst_) Stream → finn.stream srt://10.10.80.34:5866	Status Actions Waiting for Stream	×
SELECTED APPLICATION test1 = Monitoring Sources (Live) Stream Files Incoming Streams Wowza Player Stream Targets Source Security Playback Security SMIL Files	Default Instance (_definst_) Stream → finn.stream srt://10.10.80.34:5606	Status Actions Waiting for Stream	×
SELECTED APPLICATION test1 = Monitoring Sources (Live) Stream Files Incoming Streams Wowza Player Stream Targets Source Security Playback Security SMIL Files 7. Set Caller IP Addd	Default Instance [_definst_] Stream	Status Actions Waiting for Stream C	×
SELECTED APPLICATION test1 = Monitoring Sources (Live) Stream Files Mow2a Player Stream Targets Source Security Playback Security SMIL Files 7. Set Caller IP Adds	Default instance (_definst_) Stream	Status Actions Waiting for Stream CC	×
SELECTED APPLICATION test1 = Monitoring Sources (Live) Stream Files Incoming Streams Wowza Player Stream Targets Source Security Playback Security SMIL Files 7. Set Caller IP Add:	Default Instance (_definst.) Stream	Status Actions Waiting for Stream C	×



Aain Streaming	
Main Encoder	~
Stream Type	
SRT	~
Stream Type	SRT Port
Caller 🗸 🗸	5666
Caller IP Address	Latency (20~8000 ms)
10.10.80.34	1000
Passphrase	

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

		Stream Type	
SRT	Υ.		
Stream Type	SRT Port	RTSP Port	
Caller 🗸 🗸	5666		
Caller IP Address	Latency (20~8000 ms)	Account	
10.10.80.34	1000		
Passphrase		Session Name	
		Multicast	
		Multituse	
		Content	
		concent	
		Content	



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 unicasFormat 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)

	the second se	C 24 m	ins, this princip, a	-
VI.	ann -	500	earou	0.0
			C 41 I I I	

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.239.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 Encoder	
Stream Type	
TS	
TSURL	



Main Encoder	8
Stream Type	
RTMP	~
RTMP URL	
ex: rtmp://192.168.1.88/live/stream_main_01	
Account	
Password	

RTMP URL: For RTMP server address usage.

Account/Password etting 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 o	YouTube and press start streaming, SC
Remember to allow the browse	DLE for user to connect with YouTube r popup window for connecting YouTu
	Sign in - Google Accounts - Google Chrome -
Main Streaming	https://accounts.google.com/signin/oauth/usercode?as=hidELrYx
Encoder Source	Google
Main Encoder	Connect a device
- Hum Encoder	Enter the code displayed on your device
Stream Type	Enter code
Voutube	PUR-JW
TOUCODE	Next
User Code	
PJR-JW	
	English (United States) 🕶 Help Privacy Te
	- Presta
After press NEXT, the connectal	ble user account will appear for user to
G Sign in - Google Accounts - Google Chrome ● 安全 https://accounts.google.com/signin/oauth/oauthchoose	Sign in - Google Accounts - Google Chrome - Accounts.google.com/signin/oauth/consent?authuser=0∂=
	G Sign in with Google
G Sign in with Google	- Sign in min boogie

Vuon Vuon	
@gmail.com	Manage your YouTube account
Signed bar	Make sure you trust ENCODER
Use another account	You may be sharing sensitive info with this site or app. Learn about how ENCODER will handle your data by reviewing its terms of service and privacy policies. You can always see or remove access in your Google Account .
	Learn about the risks
	Cancel
English (United States) - Help Privacy Terms	English (United States) - Help Privacy Terms





When the connection is succeed, please start streaming.

Disable		
Stream Type		
RTSP port	RTSP HTTP Port	
Account		
Password		
Session Name		
Multicast		

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

Touross					
	CREATOR STUDIO	LIVE Welcome back, 1 Stream health 0 Inthese countings aloud dreaming! Check out II	C 00.00 Daprad S	na Watching	
	S CASHBOARD	00201970 C020			
	VIDEO MANAGER	the settlement of the	1 Bet up encoding software		
	(H) LIVE DIREAMING		Aid stream info	×	
	Drun tow		Cotional features		
	Carriera (NEW)	A state of the second s	Ing Opline	8	
	A COMMUNITY V	CONCONCONCONCONCONCONCONCONCONCONCONCONC	Sort stee their fait ap	a /	
	e owner 🗸	intere become incident identi-	Top chat +	¢ :	
	ы маста ~				
	RA TRANSLATIONS & ~	Deute highlight Change thurstealt			
	🖬 ORAN 👻	ENECODER SETUP			
	VOLIN CONTRADUTIONS	Server URL mmp.re./Http.ptuble.com/live2			
	imp and feedback	Brean name/kay			
		EASICINFOSTREAM OPTIONSCARDS			
		yuantest28	Say screeting.		
		Add description	0	6.200 >	
			How that		
		Schedule neit stream	ANALYTICE ETREAM HEALTH		
		Film & Animation +	0	0	
		Privacy	a set produces		



SCGD0 Implementation Surver Implementation Scool Implementation			
Source Image: Support Source Image: Support Second Image: Support Store Image: Support Monitor Image: Support Network System Store Image: Support Support Image: Support <	SCEDO	=	English
Source Image: Supplet Record Image: Supplet Supplet Image: Supplet Wetwork Image: Supplet System Image: Supplet Status Image: Supplet Supplet Image: Supplet System Image: Supplet Status Image: Supplet Supplet Image: Supplet Image: Supplet Image: Supplet Supplet Image: Supplet Image: Supplet Image: Supplet Image: Supplet Image: Supplet Image: Supplet Image: Supplet </td <td>30000</td> <td></td> <td>CPU : 3 Version : 2.5</td>	30000		CPU : 3 Version : 2.5
Encoder Record Snapshot wonitor System Status A.1. Snapshot Capture File Name Gable File Name Gable File Name Gable BMP Capture Sclect Enable or Disable capture fleature. Ein Same User may decide willing capture file name.	Source		NFS FTP
Record Image in the image.	Encoder	Snapshot	
Streaming Image Streaming Snapshot Image Streaming Streaming Image Streaming	Record	Enable	
Snapshot Store Store Store Snapshot Capture Enable File Name (H01_%Y%M%D_%h%m%s_%i Use the store of the stor	Streaming	File Name CH01_%Y%M%D_%h%m%s_%i	
Monitor Vetwork System Stots Status Snapshot Capture Enable File Name (H01_%Y%M%D_%h%m%s_%i Type BMP BMP Capture Select Enable or Disable capture feature. Tie Name User may decide willing capture file name.	Snapshot	Type BMP	
Network Support Status Support status Snapshot Snapshot Snapshot Capture Enable File Name CH01_%Y%M%D_%h%m%s_%i Type BMP BMP Status	Monitor		
System Status	Network	Apply Default Snapshot	
Status Status Snapshot Capture Enable File Name CH01_%Y%M%D_%h%m%s_%i Type BMP BMP CH01_Suppose File CH01_Suppose The second	System		
Snapshot Capture Enable File Name CH01_%Y%M%D_%h%m%s_%i Type BMP Capture Select Enable or Disable capture feature. File Name User may decide willing capture file name.	Status		
A.6.1. Snapshot Snapshot Capture Enable File Name CH01_%Y%M%D_%h%m%s_%i Type BMP BMP Capture Select Enable or Disable capture feature. File Name User may decide willing capture file name.			
A.6.1. Snapshot Snapshot Capture Enable File Name CH01_%Y%M%D_%h%m%s_%i Type BMP BMP Capture Select Enable or Disable capture feature. Tapture Select Enable or Disable capture feature. The Name User may decide willing capture file name.			
A.6.1. Snapshot Snapshot Capture Enable File Name CH01_%Y%M%D_%h%m%s_%i Type BMP CH01_%Y%M%D_%h%m%s_%i Type BMP CH01_wrekm%ber Disable capture feature. Enable or Disable capture file name.			
A.6.1. Snapshot Snapshot Capture Enable File Name CH01_%Y%M%D_%h%m%s_%i Type BMP Capture Select Enable or Disable capture feature. File Name User may decide willing capture file name.			
Snapshot Snapshot Capture Enable File Name CH01_%Y%M%D_%h%m%s_%i Type BMP Capture Select Enable or Disable capture feature. File Name User may decide willing capture file name.			
Snapshot Capture Enable File Name CH01_%Y%M%D_%h%m%s_%i Type BMP Capture Select Enable or Disable capture feature. File Name User may decide willing capture file name.	.6.1. Snapshot		
Capture Enable File Name CH01_%Y%M%D_%h%m%s_%i Type BMP CH01_%Y%M%D_%h%m%s_%i Type BMP	Spape	bot	
Enable File Name CH01_%Y%M%D_%h%m%s_%i Type BMP Capture Select Enable or Disable capture feature. File Name User may decide willing capture file name.	Cap		
File Name CH01_%Y%M%D_%h%m%s_%i Type BMP Capture Select Enable or Disable capture feature. File Name User may decide willing capture file name.	Fr	nable	
File Name CH01_%Y%M%D_%h%m%s_%i Type BMP Capture Select Enable or Disable capture feature. File Name User may decide willing capture file name.			
CH01_%Y%M%D_%h%m%s_%i Type BMP Capture Select Enable or Disable capture feature. File Name User may decide willing capture file name.	File	Name	
Type BMP Capture Select Enable or Disable capture feature. File Name User may decide willing capture file name.	CI	101_%Y%M%D_%h%m%s_%i	
BMP Capture Select Enable or Disable capture feature. File Name User may decide willing capture file name.	Туре	2	
Capture Select Enable or Disable capture feature. File Name User may decide willing capture file name.	BI	MP 🗸	
Capture Select Enable or Disable capture feature. File Name User may decide willing capture file name.			
File Name User may decide willing capture file name.	Capture	Select Enable or Disable capture feature.	
	File Nam	IE User may decide willing capture file name.	



4.7. Monitor		
		English
SC6D0		CPU : 5%
6		Version : 2.5.5
Source	HDMI (MultiView) Line-Out	
Encoder	3840*2160	128
Record	Frame Rate	
Streaming	Volume	
Snapshot		
Monitor	Apply Default	
Network		
System		
Status		
518105		
Resolution	ser can select output resolution to $1080P$ or $4K$	
3840 * 2160		
1920 * 1080		
-		
Fram erate U	ser can select output framerate to 30, and 60.	
30.00		



4.8. Network			
SC6D0	=		English VIII
Source	· · · · · · · · · · · · · · · · · · ·		
Encoder	Network Settings	Network Status	
Decord	DHCP	Host IP Address	
Necora	Static IP	Network Status	
Streaming		Normal	
Snapshot	Subnet Mask 255.255.255.1	Time Setting Type	
Monitor	Default Gateway	Automatically from the Internet	Apply
Network	192.168.1.1 Primary DNS	NTP Server time.google.com	
Suctor	192.168.1.100	Account and Password	
System	Secondary DNS	New Account New Password	_
Status			Apply
		Timeout Period	
		20 min	Apply
	Apply Default		
DHCP: En	able/disable DHCP feature.W	hen disable DHCP, please provide	necessarv
internet par	ameters for SC6C0.		
Static IP S	Setting SC6D0 static IP		
Subnet M	askSetting SC6D0 subnet ma	ask	
Default G	atewaySetting SC6D0 defau	lt gateway	
Primary D	NS Setting SC6D0 primary I	DNS	
Secondar	y DNSSetting SC6D0 second	ary DNS	
Network S	StatusHere presents IP addres	ss and network status	
l ime Setti	ng Set time server and sync t	ype.	
Timeout E	Period Set user using time of	ter log in when the time is up the	user will be
	enousset user using time at	ter log in, when the time is up, the	user will be
logout.			



	_	English
SC6D0	—	CPU:1%
		Firmware Version : 20.11.12.0.08
Source		Hardware Version : 6D0HDM12 PLUS V20
Encoder	Device Name Setting	Firmware Update
	Apply	Browse
Record	Channel Name	Update
Streaming	Channel 1: Apply	
Conschat	Shorado lafo	- System Control
Snapshot	Device	
Monitor	Device 0 : V Apply	Restore to Default Reboot
	Disk Format Type	Debug Mode
Network	FAT V Format	OFF ON Logfile
System	Loop Record	
	Disable 🗸 Apply	
Status	Device Config Setting	
	File Path	
	Browse	
	browse	
	Import	
	Export	
In system page.	user can set device name, disk forma	t system recovery and firmware undate.
III 5,500III Puo-,		t by storin recovery and minimum ap and.
1 Device nam	e setting	
Device Name Se	itting	
Device Name		
	Apply	
Chapped	Name	
channet		
Channel 1 :	Apply	
Channel 1 :	↔ Apply	
Channel 1 : User can set	device and channel name here.	
Channel 1: User can set	device and channel name here.	
Channel 1: User can set	device and channel name here.	
Channel 1: User can set	device and channel name here.	
Channel 1 : User can set 9.2. Disk Format	device and channel name here.	
Channel 1 : User can set 9.2. Disk Forma	Apply device and channel name here.	
Channel 1 : User can set 9.2. Disk Forma Device Device 0 : USB (Apply device and channel name here.	
Channel 1 : User can set 9.2. Disk Forma Device Device 0 : USB (7	Apply device and channel name here.	
Channel 1 : User can set 3.2. Disk Forma Device Device 0 : USB (7 User can for	Apply device and channel name here.	pported formats are listed as below.
Channel 1 : User can set 9.2. Disk Format Device Device 0 : USB (User can for FAT	Apply device and channel name here.	pported formats are listed as below.
Channel 1 : User can set 9.2. Disk Forma Device Device 0 : USB (User can for FAT NTFS	Apply device and channel name here.	pported formats are listed as below.
Channel 1 : User can set 9.2. Disk Forma Device Device 0 : USB (User can for FAT NTFS exFAT	Apply device and channel name here.	upported formats are listed as below.
Channel 1 : User can set 9.2. Disk Forma Device Device 0 : USB (User can for FAT NTFS exFAT EXT4	Apply device and channel name here.	pported formats are listed as below.

4.9.3. Device Config Setting

Browse
Import
the second second

User can save the setting or load previous settings here.



4.9.4. Firmware Update Firmware Update File Path Please press Browsebutton to select firmware and Updatebutton to update it, during update firmware, please donturn off power and wait until upgrade progress complete. 4.9.5. System Control System Control 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



.10. Status									
66650	_								English v
SC6DU									CPU : 5% Version : 2.5.5
Source		nout Inform	nation						
Encoder		npuennonn	N		rce Audio Sour				e Sample Frequency
Record		Channel 1				1920x1080p	59.94 2	16	48000
Streaming									
Socosbot	F	Record Stat	us						
Shapshot				Encoder Source		Frame Rate	Video Bitrate (bps)		Audio Bitrate (bps)
Monitor				NA	NA	NA	NA		NA
Network				NA	NA	NA	NA		NA
System									
	S	Stream Stat	US						
				Encoder Source	Resolution	Frame Rate	Video Bitrate (l		Audio Bitrate (bps)
		Channel 1			1920x1080p		94 8M		256K
				ŇĂ	NA	NA	NA		NA
	_								
	L	Jisk Inform	ation						
er can check SC6D0) status	Device	(Incl	uding inpu	t signal,	streaming	status, etc.)	λ.	NA
er can check SC6D() status	Device	(Incl	uding inpu	t signal,	streaming	status, etc.)	Α	NA
er can check SC6D() status	bevice	(Incl	uding inpu	t signal,	streaming	status, etc.)	Δ	NA
er can check SC6D() status	bevice	(Incl	uding inpu	t signal,	streaming	status, etc.)	4	NA
er can check SC6D() status	bevice	(Incl	uding inpu	t signal,	streaming	status, etc.)	Α	NA
er can check SC6D() status	bevice	(Incl	uding inpu	t signal,	streaming	status, etc.)	Δ	NA
er can check SC6D() status	bevice	(Incl	uding inpu	t signal,	streaming	status, etc.)		NA
er can check SC6D() status	bevice	(Incl	uding inpu	t signal,	streaming	status, etc.)		NA
er can check SC6D() status	s here ((Incl	uding inpu	t signal,	streaming	status, etc.)		NA
er can check SC6D() status	s here ((Incl	uding inpu	t signal,	streaming	status, etc.)		NA
er can check SC6D() status	bevice	(Incl	uding inpu	t signal,	streaming	status, etc.)		NA
er can check SC6D0) status	s here ((Incl	uding inpu	t signal,	streaming	status, etc.)		NA
er can check SC6D() status	s here ((Incl	uding inpu	t signal,	streaming	status, etc.)		NA
er can check SC6D() status	s here ((Incl	uding inpu	t signal,	streaming	status, etc.)		NA
er can check SC6D0) status	s here ((Incl	uding inpu	t signal,	streaming	status, etc.)		NA
er can check SC6D() status	s here ((Incl	uding inpu	t signal,	streaming	status, etc.)		NA
er can check SC6D0) status	s here ((Incl	uding inpu	t signal,	streaming	status, etc.)		NA
er can check SC6D0) status	s here ((Incl	uding inpu	t signal,	streaming	status, etc.)		NA



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