



## nT19AX03 | SC6C01 AIO MULTI INPUT STREAMING AND RECORDING DEVICE



**Operation Manual** 



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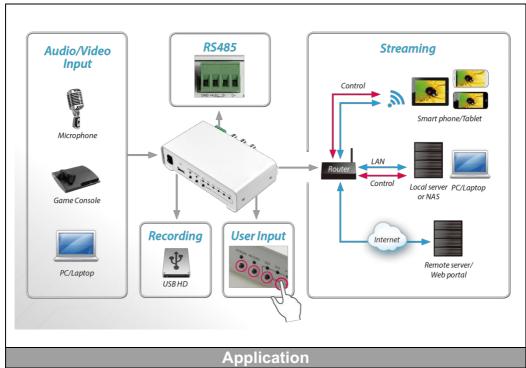


# 1. PACKAGE CONTENT **Product Name** Quanties SC6C0N1 AIO 1 Adapter 1

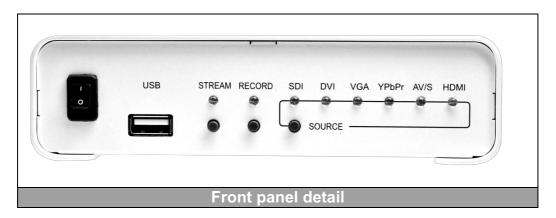


#### 2. PRODUCT INTRODUCTION

#### 2.1. PRODUCT BRIEF



SC6C0N1 AIO provides 1 x 3G-SDI, 1 x HDMI, 1 x CVBS, 1 x YPbPr and 1 x S-Video for video signal input with audio embedded feature, it also provided a 3.5mm audio jack and a pair of RCA connector for stereo analog audio input.







RS485 control bu	ontrol button, in front pan mmunication interface. U ttons are using to on/o ffs S485 interface to control	SB 2.0 interface is for streaming, recordments	r user to capture input	AV signal. 3



#### 2.2. SPECIFICATION

CIFICATION			
Model	SC6C0N1 AIO		
Max. FPS	60/50fps@1920×1080p		
Recording Mode	Hardware Compression, Real-Time Mode		
Input Interfaces	Video 1×BNC for 3G/HD/SD-SDI 3×BNC for YPbPr/CVBS/S-Video 1×DVI-I for DVI-D/HDMI and DVI-A/VGA 1×HDMI		
	Audio 2×RCA for Analog L/R Audio SDI/HDMI/DVI-D Embedded Audio 1×3.5 mm Phone Jack		
Video Feature	H.264/AVC, Baseline/Main/High Profile Configurable Bit Rate Up to 10Mbps Supported Resolutions Input 1920×1080		
	( P60/P50/P30/P25/P24/i60/i50 ) 1280×720 ( P60/P50 ), 1280×1024 ( P60 ), 1280×960 ( P60 ) 1024×768 ( P60 ), 800×600 ( P60 ), 720×480 ( P60/i60 ) 640×480 ( P60 ), 720×576 ( P50/i50 ) Output		
	Resize Range from 160x128 to 1920×1080 ( P60 ) *Output Include Down Scaling.		
Audio Feature	AAC-LC Configurable Bit Rate Range from 32Kbps to 384Kbps Sample Rate : 48KHz, 16Bit		
Network Feature	1×RJ45 for 10/100Mbps Ethernet DHCP Client		
Support Streaming protocol	TS Over UDP ( Unicast & Multicast ) RTSP Over HTTP/TCP/UDP ( RTSP Elementary Stream ) RTMP ( Publish ) HLS		
Misc. Features	Dynamic Parameter Setting RS-485 1×USB 2.0 Host for USB Storage Web UI for System Configuration Firmware Upgradable LED Indicator		
Record Format	MP4		
	System Requirement		



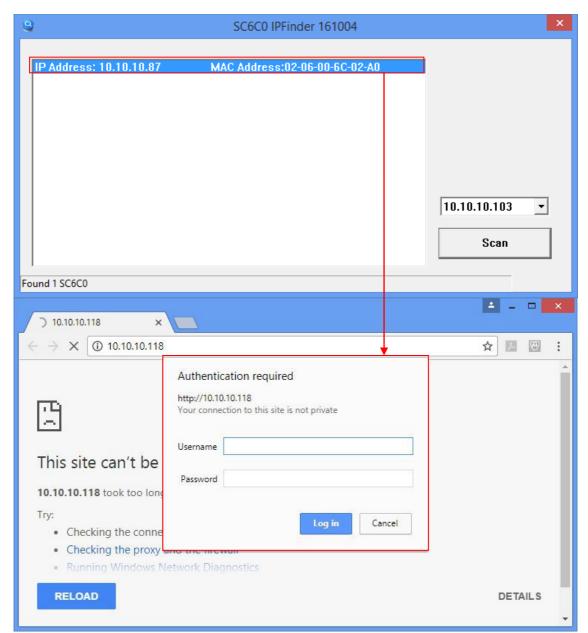
Power Supply	DC 12V (With DC Adapter)	



#### 3. WEB UI

#### 3.1. IP FINDER

In the beginning, user can execute IP Finder to find SC6C0N1 AIO, please make sure host (PC) and target (SC6C0N1 AIO) are in the same netmask.

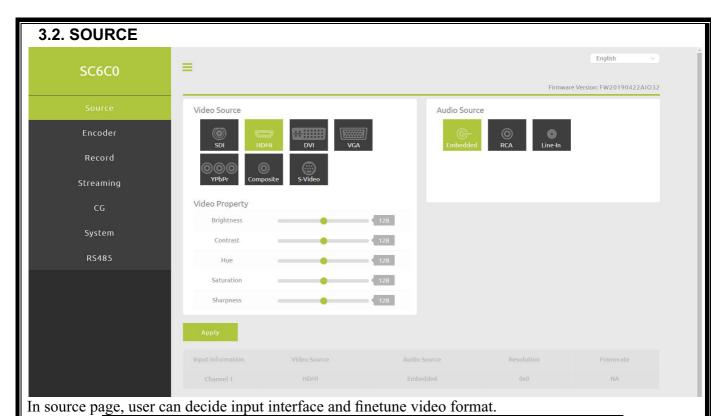


After double click the MAC address (The MAC address is provided in the bottom of SC6C0N1 AIO), the user will open the web browser automatically, please provide default user name and password to login the SC6C0N1 AIO.

Default user name: **admin** Defaule password: **000000** 

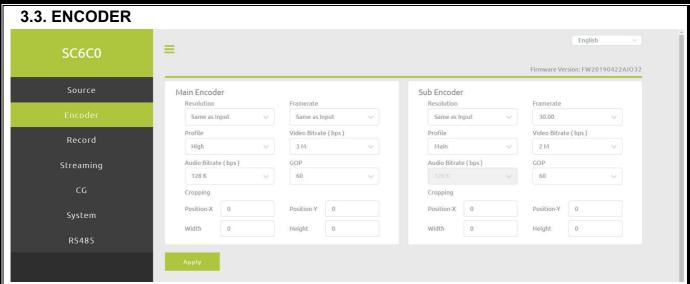
After login the system, the web UI will display inside browser automatically.





<u> </u>			
Video Tuning	Default	Range	
brightness	128	0~255	
contrast	128	0~255	
hue	128	0~255	
saturation	128	0~255	
sharpness	128	0~255	





In encoder page, user can change encode parameters here.

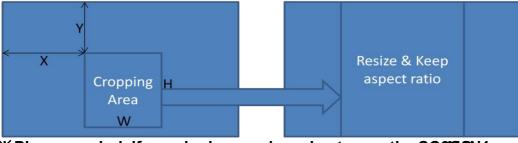
Parameter	Range
Resolution	1920*1080~160*128
Framerate	60~1
Profile	Baseline
	Main
	High
Video Bitrate (bps)	16M~256K
Audio Bitrate ( bps )	384K~32K
GOP	180~1
Position-X/Y	Depending on screen
Width/Height	size

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

**Cropping** The place and size of cropping are listed as below. The cropped area will displayed in keep aspect ratio mode.

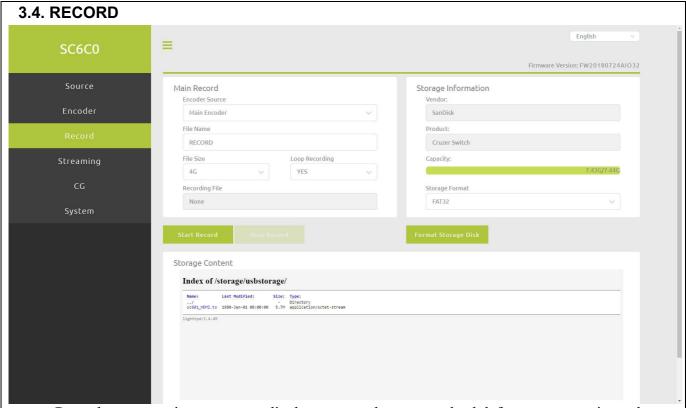
Default value (X, Y, W, H) = (0, 0, 0, 0)

W Range: 128~1920 Y&H Range: 128~1080

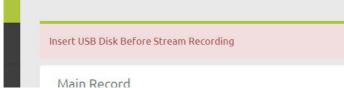


※Please remind, if user had use only main stream, the SC6QQNdan streaming
1080P60, but if activate main and sub streaming, the main streaming can exceed to
1080P30, sub streaming can exceed to 960\*540P30.





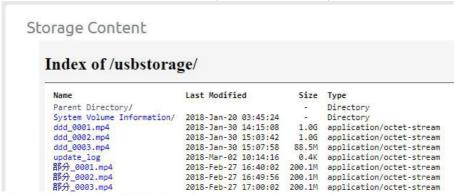
Record page contains storage media that user used, user can check left storage capacity and format newly storage media here.



When the Format USB Disk is not attached, the button will disable; When the USB disk is attached but not formatted, the Format USB Disk button will enable but without information; Only if the USB disk is attached and corrected formatted, the USB disk information and usbstorage information will displayed.

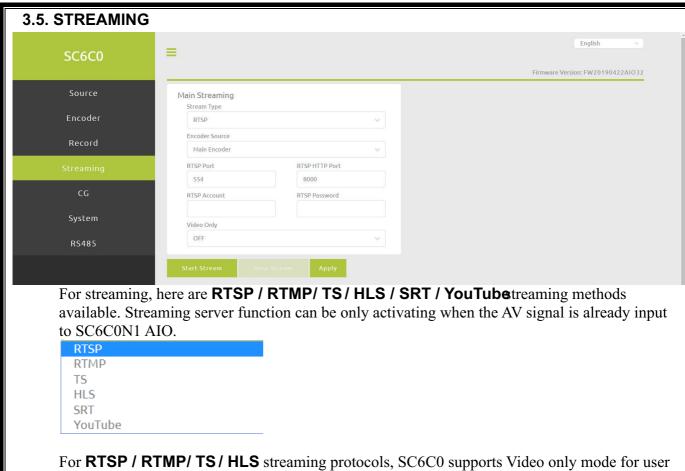
#### 3.4.1. STORAGE CONTENT

Storage Content block contains mounted USB flash disk information, when necessary, the USB flash can be formatted here (Format to FAT32).



The index block will display the connected storage here.

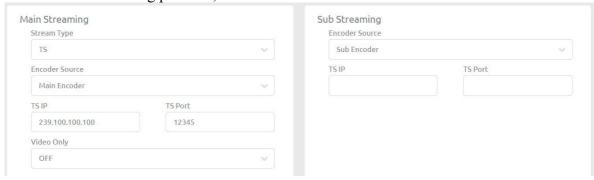




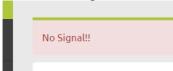
to unsend audio data.



For **TS UDP** Streaming protocol, SC6C0 can send dual stream for user to use.



When the signal is not connect, SC6C0N1 AIO will generate an error message to remind user to connect the signal.





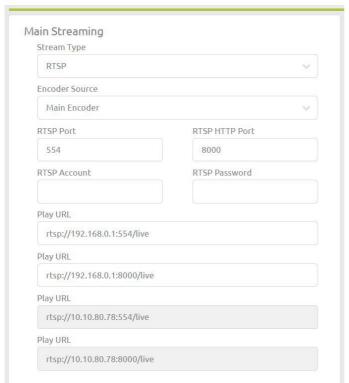
#### 3.5.1. INTRODUCTION: SRT

SRT (Secure Reliable Transport) is a video stream protocol based on UDP, using to provide a better video quality and lower latency time interval.

The advantage of SRT are listed as below

- 1. SRT can detect real-time network status.
- 2. Jitter compensation.

#### 3.5.2. EXAMPLE: RTSP



After selecting Stream Type to RTSP, the SC6C0N1 AIO will generate Play URL for user to receive RTSP stream.

Open VLC media player→[Media]→[Open Network Stream] or direct press [Ctrl]+[V] to print streaming to VLC media player





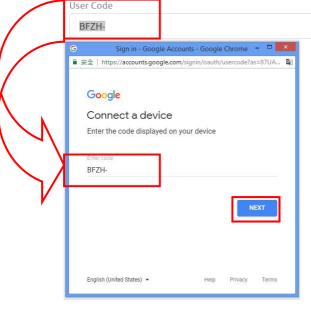
### 3.5.3. EXAMPLE: RTMP RTMP can use for streaming live video to facebook, youtube, and etc. Please enter youtube live and copy server URL to SC6C0N1 AIO for SC6C0N1 AIO to streaming video. 編碼器設定 伺服器網址 rtmp://a.rtmp.youtube.com/live2 串流名稱/金鑰 ..... 顯示 Main Streaming Stream Type RTMP Encoder Source Main Encoder RTMP URL 1 rtmp://a.rtmp.youtube.co StreamName 1 Account 1 Password 1 Opah-bfc6-



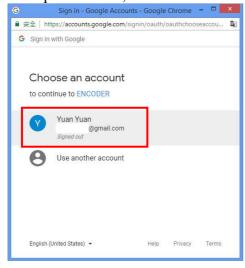
#### 3.5.1. EXAMPLE: YOUTUBE

Besides RTMP, SC6C0 also provides a simple way for user to streaming their Live video to YouTube.

After select **Streaming Type YouTube** and press start streaming, SC6C0 will automatically generate USER CODE for user to connect with YouTube account. (Remember to allow the browser popup window for connecting youtube)



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

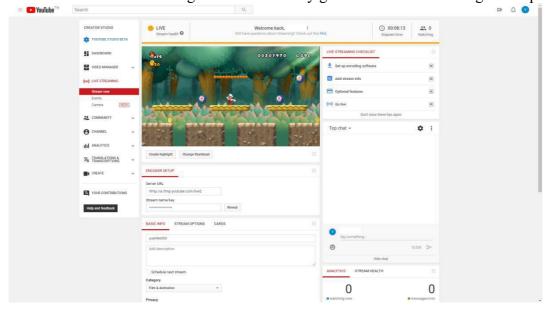




After the account is connected, the video will automatically live streaming to youtube; User can also check the connected SC6C0 inside the popup window.



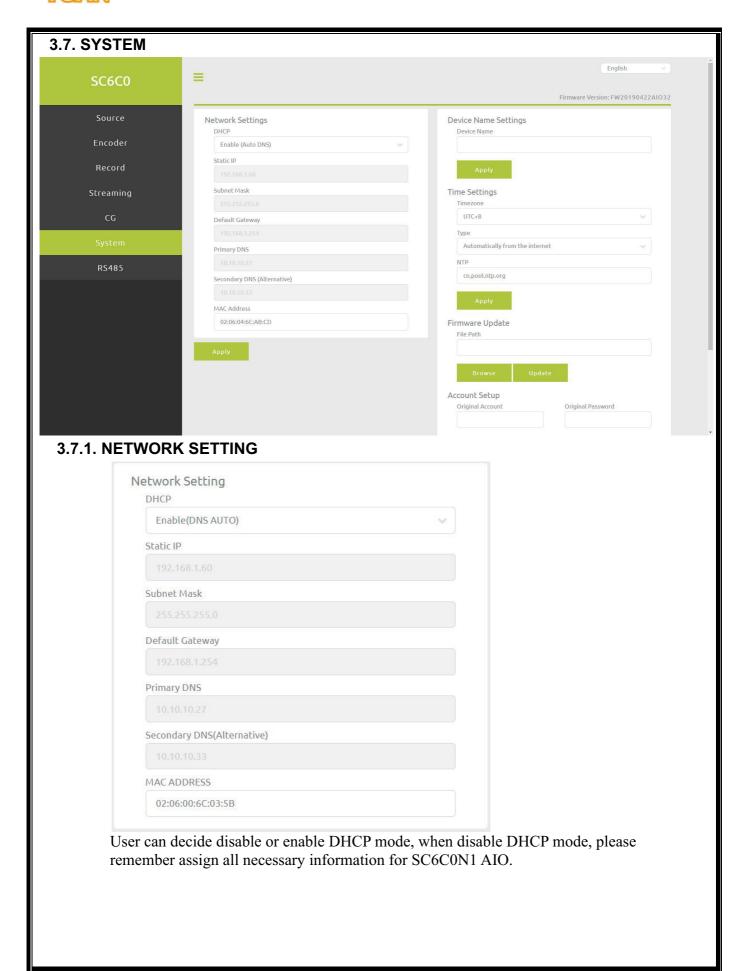
Youtube live video streaming will automatically generates after the setting is completed.







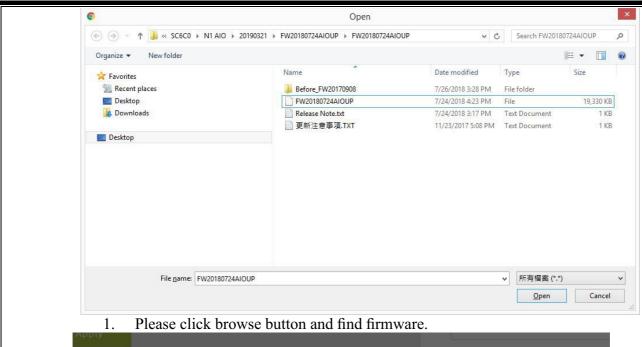


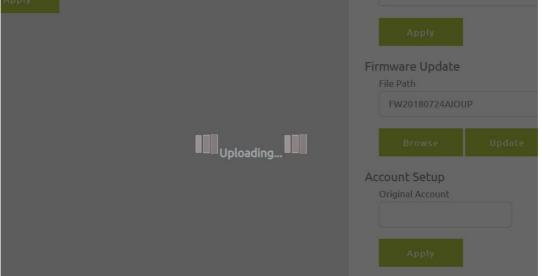




3.7.2. DEVICE	NAME SETTINGS	
Devic	ce Name Settings	
Dev	vice Name	
	Apply	
User ca	an naming SC6C0N1 AIO here.	
3.7.3. TIME SI	FTTING	
	Settings	
	ezone	
	TC+8	
Туре		
A	utomatically from the internet	
NTP		
cn	n.pool.ntp.org	
3.7.4. FIRMW	are Update	
File P	Zatii	
	Browse Update	
User ca	an update firmware and check firmware version in this to when the firmware update is in the prdcess	olock; please do'n turn o ff
_	start firmware upgrade procedure, please unzip the firm	nware nackage and make sure
	ectory of firmware file. (The file name will be FW201X)	

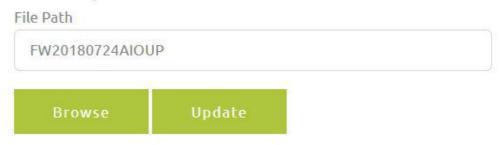






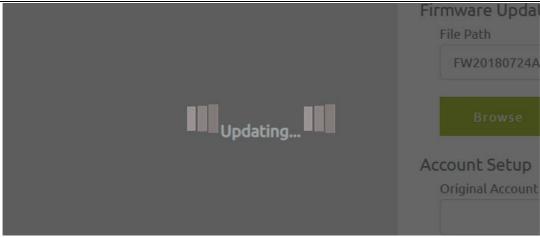
2. After select the firmware, the firmware will automatically upload to SC6C0.

#### Firmware Update



3. After the upload is complete, the UI will become normal and firmware name appears.





- 4. Click update and LED will start blinking, after the LED had stop blinking (please ignore the information from web UI), customers now can restart SC6C0.
- 5. Upgrade firmware had completed.

#### 3.7.5. ACCOUNT SETUP



User can create account for usage

#### 3.7.6. SYSTEM RELATED

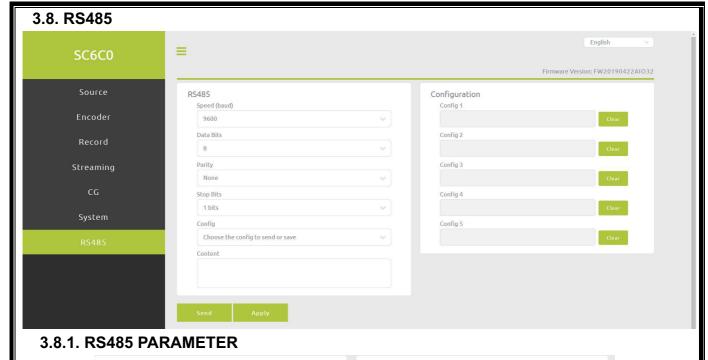
Restore to Default

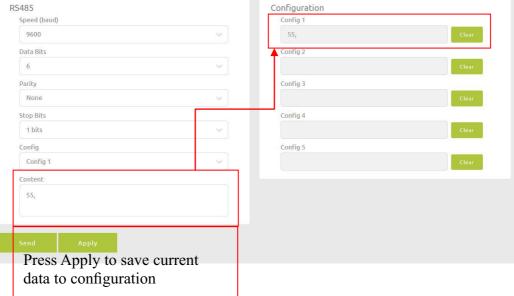
User can restore SC6C0N1 AIO to default by press Restore to Default button, the whole system will return to factory default.

System Reboot

User can reboot SC6C0N1 AIO to default by press Reboot button, the whole system will reboot.







Speed: Select baud rate for RS485 transfer Data Bits: Setting data bits (5, 6, 7, 8) Parity: Select paruty (None, Even, Odd) Stop bits: Stop bits selection (1 or 2) Config: Select the config willing to save.

- 1. Filling all the needed RS485 parameters.
- 2. Fill data  $(0\sim255)$  into **Content**block, and separate it with comma.
- 3. Press **Apply** to save the current status and content data into the config or press **Send**to send current content directly.
- 4. If the Configuration is no longer needed, user can press **Clear** to remove saved configuration.



#### 4. VERSION

#### 4.1. VERSION 1.0

Initial version (FW20180301AIO32)

#### 4.2. VERSION 1.1

Update to version FW20180515AIO

#### 4.3. VERSION 1.2

Fix typo

#### 4.4. VERSION 1.3

Update to version FW20180724AIO32

#### 4.5. VERSION 1.4

Fix typo

#### 4.6. VERSION 1.5

Add SRT info

#### 4.7. VERSION 1.6

Add FW upgrade instruction

#### 4.8. **VERSION 1.7**

Add RS485 upgrade instruction

#### 4.9. VERSION 1.8

Update output resolution