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SOLUTIONS FOR GROWTH

nT19AX01 | SC6C0 MINI HDMI/SDI/ STREAMING DEVICE WITH WIFI

(4



Operation Manual

YUAN

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1. PACKA	GE CONTENT		
		Product Name	Quanties
	SC6C0N1 Mini		1



2. PRODUCT INTRODUCTION

2.1. PRODUCT BRIEF







In back panel, SC6C0N1 Mini provides Wi-Fi / RJ45 for internet connectivity.

Here are the control button press times and LED color meanings.

	Control Button Press Times
Single press	Wi-Fi AP / Client Mode Selection
	Green LED: AP Mode
	Red+Green LED: Client Mode
Double	Streaming Enable / Disable
press	Green LED: Streaming enable.
	LED off: Streaming disable.
Triple press	Source Selection
	Green LED: HDMI Signal Locked.
	Red LED: Signal Unlocked.
	Red+Green LED: SDI Signal Locked.



2.2. SPECIFICATION	
Model	SC6C0N1 Mini
Max. FPS	60/50fps @ 1920x1080p
Recording Mode	Hardware Compression, Real-Time Mode
Input	Video
Interfaces	1 x HDMI
	1 x SDI
	Audio 1 x 3 5mm stereo analog audio
	SDI/HDMI embedded audio
Video	H.264/AVC . Baseline / Main / High Profile
Feature	Configurable bit rate up to 10Mbps
	Supported Resolutions
	Input:
	1920x1080
	(P60/P50/P30/P25/P24/i60/i50)
	1280X720 (P60/P50), 1280X1024 (D60) 1280x060 (D60)
	(POU), 12003900 (POU) 1024x768 (P60) 800x600 (P60) 720x480
	(P60/i60)
	640x480 (P60), 720x576 (P50/i50)
	Output:
	Resize Range from 160x128 to
	1920x1080(P60)
	*Output Include Down Scaling.
Audio	AAC-LC
Feature	Configurable bit rate range from 32Kbps to
	Sample rate · 48KHz_16hit
Network	1x RJ45 for 10/100Mbps Ethernet
Feature	DHCP client
	Wifi:
	802.11b/g/n
	Support 150Mbps PHY rate
Support	TS over TCP/UDP/HTTP (unicast & multicast)
Streaming	RISP over HITP/TCP/UDP (RISP Elementary Stream)
protocol	RTMP(Publish)
	HIS
Peripheral	Dynamic Parameter setting
Features	Web UI for system configuration
	Firmware upgradable
	LED indicator
	System Requirement
Power	DC 12V (With DC Adapter)
Supply Davias Size	100(M)*26(H)*65.6(D)mm
Device Size	



3. WEB UI

3.1. IP FINDER

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

9	SC6C0 IPFinder 161004	×
IP Address: 10.10.10.87	MAC Address:02-06-00-6C-02-A0	10.10.103
Found 1 SC6C0 $10.10.10.118 \times 6 \rightarrow \times 10.10.10.118$		
This site can't be 10.10.10.118 took too long Try: • Checking the conne	Authentication required http://10.10.10.118 Your connection to this site is not private Username Password Log in Cancel	
Checking the proxy Running Windows N RELOAD	etwork Diagnostics	DETAILS

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

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

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



3.2. SOURCE					
SC6C0 MINI	=				English 🔹
Source	Video Source		Audio	o Source	
Encoder		—		G -	
Streaming	Video Property		Em	ibeaded Line-In	
CG	Brightness		128		
System	Contrast	•	128		
Wireless	Hue	•	128		
	Saturation	•	128		
	Sharpness	•	128		
	Apply				
	Input Information	Video Source	Audio Source	Resolution	Framerate
	Channel 1			0x0	NA

In source page, user can decide input interface and finetune video format.

Video Tuning	Default	Range
brightness	128	0~255
contrast	128	0~255
hue	128	0~255
saturation	128	0~255
sharpness	128	0~255



3.3. ENCODER				
	=			English
				Firmware Version: FW20181026N
Source	Main Encoder		Sub Encoder	
Encoder	Resolution	Framerate	Resolution	Framerate
C1 (115.50 + 15.5)	Profile	Video Bitrate (bps)	Profile	Video Bitrate (bps)
Screaming	High 🗸	3 M 🗸	Main 🗸	2 M 🗸
CG	Audio Bitrate (bps)	GOP ~~	Audio Bitrate (bps)	GOP
System	Cropping		Cropping	
Wireless	Position-X 0	Position-Y 0	Position-X 0	Position-Y 0
	Width 0	Height 0	Width 0	Height 0
In encoder	page, user can chan	ige encode parame	ters here.	
	Param	ieter	Ra	ange
Resolution	n		1920*108	30~160*128
Framerate			60~1	
Profile			Baseline	
			Main	
Video Dit	roto (hng)		High	(V
Audio Bit	rate (bps)		384K~32	K
GOP	iate (ops)		180~1	
Cropping	(X, Y, W, H)		Dependin	ig on screen
			size	<u> </u>
H.264 Enc baseline. Cropping displayed in Default valu W Range : Y&H Rang	The place and size the place and size the place and size the ep aspect ratio to the $(X, Y, W, H) = (0)$ 128~1920 e: 128~1080	of cropping are lis mode. 0, 0, 0, 0)	rofile selection, it su ted as below. The cr	pports high, main and
<	Y Cropping Area W		Resize & Kee aspect ratio	:p



※ Please remind, if user had use only main stream, the SC**60000N t** an streaming 1080P60, but if activate main and sub streaming, the main streaming can exceed to 1080P30, sub streaming can exceed to 960*540P30.



SC6C0 MINI	=	Eligiisii
		Firmware Version: FW20181026N
Source	No Signal!!	
Encoder	Main Streaming Stream Type	
	RTMP2.	
CG	Encoder Source Main Encoder	
System	RTMP URL 1 rtmp://a.rtmp.youtube.com/live2	
Wireless	StreamName 1 Account 1 Password 1 88qy-qye8-t3ra-00q4	
	Audio Only	
	OFF v	

For streaming, here are **RTSP /RTMP / RTMP2 / TS / HLS / SRT / YouTube / FaceBook** streaming methods available. Streaming server function can be only activating when the AV signal is already input to SC6C0N1 Mini.

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





Main Streaming	
Stream Type	
RTSP	~
Encoder Source	
Main Encoder	×
RTSP Port	RTSP HTTP Port
554	8000
RTSP Account	RTSP Password
Play URL	
rtsp://192.168.0.1:554/liv	e
Play URL	
rtsp://192.168.0.1:8000/li	ve
Play URL	
rtsp://10.10.80.78:554/liv	e
rtsp://10.10.80.78:554/liv	e
rtsp://10.10.80.78:8000/li	ve

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

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





Opgh-bfc6-

3.4.2. EXAMPLE: RTMP RTMP can use for streaming live video to facebook, youtube, and etc. Please enter youtube live and copy server URL to SC6C0N1 Mini for SC6C0N1 Mini 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



3.4.1. EXAMPLE: YOUTUBE

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

After select **Streaming Type**o **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)

	User Code
	BFZH-
	Sign in - Google Accounts - Google Chrome
/	Google
\land	Coogie
	Connect a device
	Enter the code displayed on your device
$\langle \langle \rangle$	Entercode
	BFZH-
י/ר	
V	NEXT
	English (United States) 👻 Help Privacy Terms

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.





Source Encoder Streaming CG System	OSD ON/OFF OFF Text %H:%M:%S		Firmw	are Version: FW20181026♪
Source Encoder Streaming CG System	OSD ON/OFF OFF Text %H:%M:%S			
Encoder Streaming CG System	0FF Text %H:%M:%S			
Streaming CG System	Text %H:%M:%S			
CG System	%H:%M:%S			
CG System				
System	Location-X Location-Y			
	Background			
Wireless	None	~		
	Text Size			
	Apply			
1. OSD				
OSD				
ON/OFF				
OFF		~		
Text				
%H:%M:%S				
Location-X	Location-Y			
200	200			
D= -karound				
Backgrouhu				
None		`		
Text Size				
10		~		
ON/OFF: Tur Text Display LocationX: (LocationY: (Background	rn on or o ffOSD ed OSD content OSD place X OSD place Y dOSD background enabl	le/disable		



		Firmware Version-EW3040401
C		Fillilwale velsion, FW20161020
Source	Network Setting	HLS Preview Setting
Encoder	Enable(DNS AUTO)	✓ OFF ✓
erobo anto a	Static IP	
Streaming	192.168.1.60	Apply
CG	Subnet Mask	Device Name Setting
	255.255.255.0	Device Name
System	Default Gateway	
Wireless	192.168.1.254	Apply
	10 10 10 27	Time Setting
	Secondary DNS(Alternative)	Timezone
	10.10.33	UTC+8
	MAC ADDRESS	Туре
	02:06:01:6C:A3:A2	Manually
		Date Time
	Apply	2018-12-19 18:27:51
		Apply
		Firmware Update
		File Path
		Browse Update
		Asseuth Setue
		Original Account Original Password
		Αρρίγ
		System Related

3.6.1. NETWORK SETTING

Enable	~
Static IP	
Subnet Mask	
Default Gateway	
Primary DNS	
Secondary DNS	
MAC ADDRESS	
02:06:01:6C:BB:EE	



User can decide disable or enable DHCP mode, when disable DHCP mode, please remember assign all necessary information for SC6C0N1 Mini	
3 6 2 HI S PREVIEW SETTING	
HLS Preview Setting	
OFF	
Apply	
3.6.3. DEVICE NAME SETTING	
Device Name Setting	
Device Name	
Apply	
Setting device name.	
3.6.4. TIME SETTING	
Time Setting	
NTP	
time.stdtime.gov.tw	
Date	
Time	
11:52:46	
User can update system time in this block.	
3.6.5. FIRMWARE UPDATE	
Firmware Update	
File Path	
Browse Update	
User can update firmware and check firmware version in this block; please do'n turn o ff system when the firmware update is in the prdcess	
Before start firmware upgrade procedure, please unzip the firmware package and make sure the directory of firmware file. (The file name will be FW201XXXXXXX)	



🔄 💮 👻 🛧 🌗 « SC6C0 🕨 N1 Alo 🕅	> 20190321 > FW20180724AIOUP > FW20180724AIO	UP v C	Search FW20180	724AIOUP
Organize 🔻 New folder				
🔆 Favorites	Name	Date modified	Туре	Size
🔢 Recent places	Before FW20170908	7/26/2018 3:28 PM	File folder	
Desktop	FW20180724AIOUP	7/24/2018 4:23 PM	File	19,330 K
📕 Downloads	Release Note.txt	7/24/2018 3:17 PM	Text Document	1 K
	● 更新注意事項.TXT	11/23/2017 5:08 PM	Text Document	1 8
File <u>n</u> ame: FW2018072	AAIOUP		∨ 所有檔案 (*.*)	
			<u>Open</u>	Canc

	Apply Firmware Update File Path FW20180724AIOUP
Uploading	Browse Update
	Original Account

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

Browse Update



	Firmware Updal			
	File Path			
	FW20180724A			
	Browse			
Updating				
	Account Setup			
	Original Account			
4. Click update and LED will start blinking, after the L	ED had stop blinking (please			
ignore the information from web UI), customers nov	v can restart SC6C0.			
5. Opgrade inniware nad completed.				
3.6.6. ACCOUNT SETUP				
Account Setup				
Original Account Original Password				
Submit				
User can create account for usage				
3.6.7. SYSTEM RELATED				
Restore to Default				
User can restore SC6C0N1 Mini to default by press Restore to Default button, the whole				
system will return to factory default.				
System Reboot				
User can reboot SC6C0N1 Mini to default by press Reboot b reboot.	utton, the whole system will			



		English
SC6C0 MINI		
		Firmware Version: FW20181026N
Source	Wi-Ei Satting	
	Mode	
Encoder	AP Mode 🗸	
	IP Address	
Streaming	192.168.0.1	
CG	Wi-Fi SSID	
	AP_6CA3A2	
System	SSID Hide	
	NO. V	
	Wi-Fi password	
	12345678	
	802.11 Mode	
	802.11b/g/n Mixed	
	Wi-Fi Channel	
	2.447GHz (CH8)	
	Security Mode	
	WPA2 V	
	DHCP Server	
	Enable	

3.7.1. WI-FI SETTING

User can set SC6C0N1 Mini as Client mode or AP mode inside Wi-Fi Settings block; here are the difference between them.

Client mode: When setting as Client mode, SC6C0N1 Mini can connect to other Wi-Fi AP, so user can use their Wi-Fi device (Example: Cell phone, tablet PC or laptops) to connect to the same Wi-Fi AP then controls SC6C0N1 Mini.

Mode			
Client Mode			`
YUAN22RD-2.4G	Ø	6	(i t
YUAN_Guest2.4	Ø	ß	((t -



AP mode: When setting as AP mode, user can use Wi-Fi devices to connect to SC6C0N1 Mini and control directly, such as PDA, smartphones.

user can turn on wi fiand connect to SC6C0N1Mini Wi-Fi (SSID) first (Default password 12345678Default SSID is AP_6C****, **** is the last 4 numbers of MAC Address User can also get the value under IP Finder.), then fill IP address into browser, and finally user can connect SC6C0N1 Mini with Wi-Fi devices.



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4. VERSION	
4.1. VERSION 1.0	
Initial version.	
4.2. VERSION 1.1	
Update to FW20180213N	
4.3. VERSION 1.2	
Fix typo	
4.4. VERSION 1.3	
Update to FW20180703N	
4.5. VERSION 1.4	
Update to FW20181026N	
4.6. VERSION 1.5	
Add FW upgrade instruction	
4.7. VERSION 1.6	
Update output resolution	