V360 Live Streaming Studio (All-In-One V2.0) User Manual



IMPORTANT:

Before using V360 live streaming studio, please read this user manual carefully.

目录

1. V360	0 Operation And Settings	3 -
1.1	Interface Description	3 -
1.2	V360 Installation	4 -
1.3	Settings	5 -
2. Joy H	Hub APP	
2.1	Run the Joy Hub APP	8 -
2.2	Joy Hub APP interface	10 -
3. Audi	io settings	14 -
3.1	Setting	14 -
3.2	Input Audio	15 -
4. V360	0 Audio Detail Explanation	15 -
4.1	V360 Audio Category	15 -
4.2	V360 Input Audio	16 -
4.3	How to use	17 -
5. Virtu	ual Studio	18 -
5.1	Introduce	18 -
5.2	Green Matting	19 -
5.3	Blue Matting	21 -
6. Othe	ers Menu Description	22 -
6.1	Personal Center	22 -
6.2	Network	24 -



1. V360 Operation And Settings

1.1 Interface Description



- 1.1.1 Turn on/ turn off
- 1.1.2 Hot shoe or tripod bracket connected, etc.
- 1.1.3 SIM card + SD card tray, do not use mobile phone card as built-in sim card.

To prevent calls from interrupting the live broadcast

1.1.4 RJ45 connected to the wired network (if the network cable cannot be found,

please restart the device)

- 1.1.5 RJ45 connected to the wired network
- 1.1.6 USB2.0 port used to plug an external 4G card tray
- 1.1.7 Type-c input port, 5V3A
- 1.1.8 HDMI output used for extended display, can be connected to a large screen.
- 1.1.9 HDMI input 1 used to access HD signal sources, for example cameras.
- 1.1.10 HDMI input 2 used to access HD signal sources, for example cameras.
- 1.1.11 Audio output can be looked as a monitor.

- 1.1.12 Microphone input
- 1.1.13 Audio input, access to the mixer.
- 1.1.14 Backstage management;
- 1.1.15 Return the main screen;
- 1.1.16 Back to previous;

The indicator light is red in charging. When the power is less than 20%, the indicator light is also red. The green indicator means you have about 20%-100% power.

1.2 V360 Installation

- 1.2.1 SIM card: Insert a medium card into the card tray.
- 1.2.2 SD card: Take a card less than 128G and put it into the built-in card tray, then insert it into the card slot



1.2.3 PTZ hot shoe: There is a 1/4 screw hole on the device used to fix the V66 on



the tripod. When installing the double-layer hot shoe, fix the screw by a nut.

- 1.2.4 TYPE-C charging: Output 3A/3.6-8V, 9V/2A;
- 1.2.5 System switch: Power to turn on or stop the sleep state.
- 1.2.6 4G card tray: Open the cover and insert the SIM into the USB2.0 port.

1.3 Settings

- 1.3.1 Please put your hand on power switch for 5 seconds to boot up.
- 1.3.2 Setting the network, Wifi, 4G, or wired

Wifi setting: Setting -- WLAN -- open-- select network and input password



1.3.3 4G setting: Insert the SIM card into the 4G V360 cato, the copper side of SIM card must be faced down and the notch must be faced outwards.

1.3.4 RJ45 Wired network setting:

If you want to connect the RJ45 port to the wired encoder, please connect the encoder first, and then set the steady-state address as follows:



‡**♥ 🛔** 4:16 🖪 🕭 **** 1** 5:29 5:29 🖬 4:15 🖪 Is 141 Q ← Ethernet ← Network & internet Q Q Search settings WI-FI JIEYU_5G Network & internet Wi-Fi, mobile, data usage, hotspot Configure Ethernet device Ethernet configuration <--> Ethernet tion Type Connected devices O DHCP Mobile network O Static IP P address Apps & notifications Permissions, default apps O Data usage 1.50 GB used on Wi-Fi ubnet mask Hotspot & tethering
 Off Battery
 44% - Should last until about 10:45 PM Display Wallpaper, sleep, font size NS address Network priority SIM cards Sound Volume, vibration, Do Not Disturb ateway address Mobile plan Storage 35% used - 20.77 GB free Airplane mode DISCARD SAVE B Security & location CT VPN None Accounts
 No accounts added
 Private DNS

"Setting" -- " Network & internet" -- "Ethernet" -- "Ethernet

configuration" -- "DHCP" -- "IP address"

1.3.5 Hotspot & tethering: "Settings" -- "Network & internet" -- " Hotspot &

tethering" -- "Wi-Fi hotspot" -- "Hotspot name" and "Hotspot password"



1.3.6 System upgrade and APP upgrade





Note: V360 Upgrade management is available, please initialize the system after the upgrade.

Initialization operation: "Setting" -- "System-Reset options" -- " Erase all

data" (factory reset)

Joy Hub: Joyusing' s broadcast live APP

1.3.7 Optional Network Priority





"Setting" --Network & internet" --" Network priority" --" Ethernet", "Ext Cellular networks 1", "Ext Cellular networks 2", "Wi-Fi", "Mobile network", "USB networks" for your choose.

2. Joy Hub APP

2.1 Run the Joy Hub APP

2.1.1, Register an account: when you use joyusing products for the first time, open the JOY guide APP and click on : "Me" --" Login" -- "REGISTER"

Shown as:

5:31 🖪 🔊		•♥ 🛔	5:32 🖬 🏍	÷ ▼ ≜	5:32 🖬 🎝		• ▼ ≜
	Live				\leftarrow	Login-Joy Hub	
RTMP Cha	annel + Ad	d video source	Login		E-mail		
Built-in video source			Director Cattings		Password		
4K	1DMI-IN1	A	Director Settings				
		D	Accessories			LOGIN	
Here and the second sec	IDMI-IN2	0	e ^o Records and playbacks				
		0	(i) About		REGISTER		FORGET
R(O) R	JSB Camera/Capture		$[\rightarrow$ Exit				
		Ø					
A	AirPlay						
		Ø					
		START					
0	0	0	0 0	8			
Live	Help	Me	Live Help	Me			

If you already have an account, you can log in directly.

2.1.2, Click on "Joy Hub" -- " START"



2.2 Joy Hub APP interface



2.2.1 Click on the "START" button, enter the "Play" page, fill in the "RTMP Publish URL" and set the parameters, including "Encoding", "Output bitrate", and "Out resolution". Note: Only H265 encoding can be supported at 4k resolution.

دى 🖬 5:44		· 🕈 🛔
	Play	My addres
RTMP Publish URL For example:rtmp://8.8.4 in the input Rtmp stream address1	8.8/streamcodeClick t	ne example url below to fill
rtmp://8.8.8.8/strear	ncode	\otimes
If the rtmp server require auth	entication,enter username	and password below equire authentication
Encoding		H.264
Output bitrate		4000kbps
Output resolution	4K 1080P	720P 480P
PLAY	PORTRAIT PLAY	VIRTUAL STUDIO

Click on the "Play" button in the lower left corner to enter the interface.

2.2.2 Add an address book to the website

Before using V360, please open the website: http:// a.hemiaotv.com and save your RTMP Publish URL for using next time. (Please log in it with your registered email)



	1				
	User	Login			
4	💄 Accou	nt]	
100	🔒 Passw	ord			e.e.e.
	Verifica	ation Code	907	0	7
	Login		1		100
	~/-	***********	1		
	+ Create Address				
	iii Address				
Address Book	create address	address			X
L→ Exit	Name:				
	Address:				
	Stream code (if it exists):				
		Ø OK	Cancel		~

2.2.3 Add an address by selecting the right top corner "My address"

5:44 🖬 🏂		- - ▼≞	5:45 🖬 🌶		• ▼ ≜	5:45 🖬 🕼		• ♥≜
		my addres		My address book		÷	Add	
RTMP Publish URL			Login your ad	ldr book webpage to edit push urls		Set a name for th	e url	
For example:rtmp://8. in the input	8.8.8/streamcodeClick the e	example uri below to fill	http://a.hemia	aotv.com		Please enter a na	ime :	
Rtmp stream address	at					Please enter an u	ırl, support rtmp, mlp	
If the rtmp server require a	uthentication,enter usememe and p	Dassaword below uire authentication				rtmp://		\otimes
Encoding		H.264					ADD	
Output bitrate		4000kbps		\frown				
Output resolution	4K 1080P	720P 480P		()				
PLAY	PORTRAIT PLAY	VIRTUAL STUDIO		No Content				

2.2.4 Output bitrate

Manually set the output bitrate during live streaming according to your

network bandwidth and required video resolution.

Eg: 2000kbps=2M (standard) 4000kbps=4M (HD bit rate)

2.2.5 Output resolution

When 4K resolution is selected, there is only 1 slot left.

2.2.6 Enter the Joy Hub interface



1	2	1920 * 1080 H.	264			I	E Exit
3	4						\triangleright
1 2	1 2						Live
1 2	1 2					$\langle\!\langle$	Record
1 2	1 2						BG Image
							Settings
	D	2		3	4		Ð

3. Audio settings

3.1 Setting

Click on the lower left blue button to set up

1	2	1920 * 1080 H.264				E [→
3	Speaker Volume			The audio i	s locked and hange along	
1	Input Audio Input Audio Volume	Analog	¥	Source 1	🔒 Source 2	Record
1	Input Audio Related	None	Ψ.	🔓 Source 3	🔒 Source 4	°∕
1	Input audio delay		0.0s		500	BG Image
		Add BGM		5	et	Settings
	d h (1)	2	3		(4)	

The audio is locked and can not be changed along with the video switch.



3.2 Input Audio

3.2.1 Select "Nothing" : No audio

3.2.2 Select "Analog" : Output external sound from 3.5 audio or external headphone and microphone sound.

3.2.3 Select "HDMI1" : Output HDMIin1 sound

3.2.4 Select "HDMI2" : Output HDMIin2 sound

3.2.5 Select "USB" : Output USB capture card or USB camera sound

Only one external audio is available. If you want to switch between external audio and local sound, you need to associate additional external audio signals.

4. V360 Audio Detail Explanation

4.1 V360 Audio Category

4.1.1 Analog: Output external 3.5 audio sound or external headphone and microphone sound.

4.1.2 Data: HDMI audio is based on USB that receive audio signals.

4.1.3 Media: Including MP4 video files, network streaming video, built-in recording files.



4.2 V360 Input Audio

4.2.1 HDMI IN1 means input data audio. If you want to pick up an audio signal when using a camera microphone, please input the HDMI bit to access the HDMI IN1 in V360.

4.2.2 HDMI IN2 means input data audio. If you want to pick up an audio signal when using a camera microphone, please input the HDMI bit to access the HDMI IN2 in V360.

4.2.3 3.5 audio line input : Analog audio input can be connected to mixer, computer, mobile phone, PS4 and other headphones output. Please note that the audio equipment volume must be controlled at less than 50% to prevent explosions.

4.2.4 Microphone input: Analog audio input can be connected to headphones for desktop computers.

Note: Because of built-in mics., you' d better plug in the headset when you are using the microphone in case of howling.

4.2.5 Headphones for computers: Earphones separated



4.2.6 Mobile headset works with the following conversion lines:



4.3 How to use

4.3.1 HDMI audio: when you use a camera or switch station to output HDMI signal with audio signal, please insert the HDMI cable into the HDMI IN1 and then input audio in the audio menu bar, just select: HDMI 1.

If you want to switch or lock the audio from other video source, please

associate the corresponding video source.

The jump of standard microphone symbol in the lower left corner indicates that there is a sound being output.

Microphone or line audio: Please insert the microphone or line audio into the device (either option), and then input audio in the audio menu bar, just select: analog. If you want to switch or lock the audio from other video source, please associate the corresponding video source.

4.3.2 USB Camera / Extension 2 Generation: Select USB Device Option for this audio

If it is the third party APP, please select "HDMI"

4.3.3 Audio of other video files: When you add various video files and stream video files, the sound will be played out. You can use audio locking to select one of the audio signals and change the volume in the preview.

5. Virtual Studio

5.1 Introduce

V360 live streaming studio creatively makes blue & green matting and virtual studio functions on handheld devices come true, contributing to your live broadcasting more professional.



Click on virtual studio - enter the virtual studio interface



5.2 Green Matting

5.2.1 Select the matting object

	1920 * 1080 H.254	Battery:90%
+	HDMI-IN1	
0	HDMI-IN2	
	USB Camera/Capture	
	AirPlay	
0	PPT/PDF/WORD documents	
-	Pictures	
Green-Screen keying	Sereen Recording	
3	Add a MP4 file	

5.2.2 Click on the "KEYING"



5.2.3 Adjust the border of the image, select "Filter Color", and then click on







5.2.4 Adjust image position and set matting parameters (Similarity and Blend)



5.2.5 Preview







5.2.6 Rendering



5.3 Blue Matting

- 5.3.1 The operation process is the same as green matting
- 5.3.2 Select the object

	1920 * 1080 H.264	Battery:90%
	HDMI-IN1	
0	HDMI-IN2	
_	USB Camera/Capture	
	AirPlay	
2	PPT/PDF/WORD documents	
+	Pictures	
Green-Screen keying	Sereen Recording	
(3)	Add a MP4 file	

5.3.3 confirm matting



6. Others Menu Description

6.1 Personal Center

6.1.1 Click on the button "Me"



6:14	د <u>ت</u>	
	JOYUSING	
\bigcirc	Director Settings	
	Accessories	
00	Records and playbacks	
i	About	
$[\!\!\rightarrow$	Exit	



6.1.2 Director settings is used for setting the output operation, shown as follows:

Set the video output orientation, bitrate and resolution, storage alarm value, etc. (please click the blue "Modify")

	حک ⊑ 6:15	*▼ ≜
	\leftarrow Director Settings	
	Output bitrate	4000kbps
	H264 Compatibility mode	Ο
	Output resolution 1080P 720P	480P
	Audio bitrate	128 kbps
	Audio sample rate	48KHz
	Director keyboard	
	Records's storage path: /storage/emulated/0/ JoyHub/LiveVideo, free space: 19.33GB	Modify
	MaxSize of single video record file	500M
	Storage alarm value	600M
	Playbacks save path:/storage/emulated/0/JoyHub/ DotVideo	Modify
	Playback	Ο
	Playback time setting	10s
	Automatically add [Highlight Clip] layer	
对比度		76
饱和度		65
亮度		53
色调		55
		恢复默认

6.2 Network

6.2.1 Support Network

	•1 x built-in module, support mode: TDD-LTE、FDD-LTE、WCDMA
Guarant	China / India : LTE FDD: B1/B3/B5/B8 ; LTE TDD:
Network	B34/B38/B39/B40/B41 WCDMA: B1/B8 ; TD-SCDMA: B34/B39
	EVDO/CDMA: BC0 GSM: B3/B8

◆2 x built-in module, support mode: TDD-LTE、FDD-LTE、WCDMA
(Optional)
◆1 x WIFI built-in module:IEEE 802.11a/n/g/b 2.4G+5G
◆1 x Ethernet 10M/100M: Local network port

6.2.2 Input:

Input	Input interface: HDMI IN:HDMI1(Main), HDMI2 (secondary)			
video				
	Support interlaced and line-by-line resolution, such as			
	3840*2160,1920*1080,1600*900,1440*900,1440*1050,1366*768,1360*7			
	68,1280*1024,1280*960,1280*800,1280*720,1280*600,1024*768,800*60			
	0, etc.			
	 Secondary HDMI supports resolution, 1920*1080P , 720P 			
	Digital audio: Main HDMI input			
Audio	Simulate audio: MIC input and line audio input			
	Digital audio and simulate audio can be switched freely.			

6.2.3 Live streaming Output

Video	Video coding method:H264, H265
	Video coding frame rate: 25/30HZ
	Director resolution: 4K / 1080P /720P. (4K resolution must
	come with H265.

	Output bitrate: Dynamical and adjustable
	Audio coding: aac
	Audio bitrate default is 96
Audio	Optional: 64kbps,96kbps,128kbps,160kbps,192kbps,256kbps
	Audio sample rate: 48KHz,44.1KHz

6.2.4 System

Operation	Android 9.1
system	
Network	RJ45: 100M port WIFI: 2.4G+5.8G 4G+:Max. 300M
Screen	6" &1080P touch screen
Internal	3G RAM + 32G ROM
storage	
Upgrade	Software upgrades can be carried out according to network.

6.2.5 Interface

USB	1* TYPE-C2*USB2.0
SD card	Max. 128G
	Medium card
SIM card	

6.2.6 General

Size	Package size: (wide x long x high)220*150*70mm
V360 size	Wide: 86mm Thickness: 23mm Long: 165mm
Weight	0.35KG/piece Package weight: 0.4KG
Temperature	0~45°C (working) -20~80°C (storage)
range	
Power	Battery powered, Charging voltage 3.6-8V/3A, 12V/2A
Power	Battery capacity: 8000mAh(18W)
comsuption	