

V88 portable live all-in-one machine



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Part I: V88 live all-in-one machine introduction

1、Product and function introduction

1.1 Product description.

V88 portable live all-in-one machine is a handheld guide live broadcast tool, integrated with two HDMI input signals and supports 4K input. It can also be used through other capture cards, encoders, local video, network video, and cell phone casting, which can realize guide switching, secondary editing, and live streaming of HD video.

V88 is based on Qualcomm 865 CPU processor, Android 10.0 OS with H.264/H.265 encoding technology, built-in 4G+ high-speed baseband, and high bandwidth WIFI. V88 can be used as a handheld guide table and output HDMI signal for other live broadcast equipment. It can be connected to a large screen display to show the live feed.

V88 supports functions such as blue and green keying, multi-video switching, local video, network video, background music, effect music, real-time subtitles, exclusive logo, event score trigger, news title board, local video, etc.

V88 can be applied to live TV stations, network variety shows, remote emergency command, remote medical rescue, remote video teaching, video conferencing, and other real-time services.

1.2 Function description.

- * Snapdragon 865 octa-core high performance, 2.8GHz, Android 10, robust heart system more stable.

- * Dual HDMI input, full HD 4K resolution and multi-camera live streaming is easier to achieve.

- * Four-camera guide switching to meet the needs of extensive live broadcast, more angles to watch the live scene.

- * High-performance H264/H265 compression, more detailed images, and less network bandwidth consumption.

- * It can realize video interaction, video conferences, video teaching, and other interaction more convenient.

- * Equipped with 4G LET network, higher network bandwidth to meet the demand of ultra-high definition live broadcast.

- * Multi-audio mixing input, high-quality audio performance; instead of the function of the mixer, audio adjustment is more convenient.

- * Video editing function, live broadcast is more professional, virtual studio, title, logo, slow motion live broadcast is more experienced.

- * HD 1080P video recording, support 256G SD card, live video recording simultaneously.

- * 10000mAh high power battery, strong battery life, live for more than 3-4 hours.



* 18W fast charging, live and charging two, long time live easily.

2、 Packing list

V88 Live All-in-One	1 unit
HDMI Standard Cable A-A, 1.5m	2 sticks
Fast charging head + charging cable	1 only
Small head hot shoe 1/4	1 only
Warranties	1 copy
Instruction card	1 copy

3、 Interface description.



3.1 Interface Description.

1. Switching keys.
2. 4G SIM card + SD card tray.
- 3、 Hot shoe, connecting triangle bracket, etc.
- 4 、 RJ45 network cable interface, 1000M network interface, connect wired network.
- 5、 Microphone input, pole microphone input interface.
- 6, audio input, line audio input, connect the mixer, and computer audio output.

- 7, audio output, insert headphones or as other sources of signal use.
- 8、 HDMI signal output for extended display, can be connected to a large external screen, etc.
- 9, HDMI signal input 1, for access to ultra-high-definition signal sources, such as 4K cameras, etc.
- 10, HDMI signal input 2, for access to HD signal sources, such as cameras, etc.
- 11、 USB 3.0 interface for connecting switching keyboard or capture card.
- 12、 USB 3.0 interface for connecting switching keyboard or capture card.
- 13, charging interface 5V/3A,12V/2A, support QC3.0 fast charging.

3.2 Equipment installation.

A1, 4G SIM card: use a medium card, put it into the card tray and insert it into the card slot

A2, SD card: Using a card of 128G or less, put the SD card into the built-in card tray ,and insert it into the card slot



A4, small head hot shoe: there is a 1/4 screw hole on the device; it is used to fixing the V68 on the tripod. The screw is screwed to the bottom when installing the double hot shoe, followed by a nut to fix it tight.

A5, TYPE-C charging: This interface can be used as a charging interface for rechargeable batteries, rechargeable batteries choose to use the output of 3A/3.6-8V,12/2A high-power fast charging.

A6. System switch: used to turn on the power and open the hibernation state.

Part II: V88 live all-in-one system networking operation

1: Connect the power switch for 3 seconds to turn on the machine.

2: Set up network, wireless network Wired network, mobile data



A、Wifi network settings: go to wireless network - WLAN - open - select the network to enter the password.

B、4G network setting: SIM card copper facing down, put in 4G card tray, and insert the card tray into the SIM card slot of V88.



C、Wired network settings: plug in the wired network, go to the wired network - Ethernet - open

If you want to set the IP address manually, tap: Connection type - select: static ip - enter the IP address.

3: System upgrade settings and restore factory

- a. File management: can copy and duplicate pictures, store videos, manage external u disk, internal SD card, local memory.
- b. Sound and display: adjust the sound size of the device's external playback and headphone monitoring, and adjust the brightness of the device



screen.

- c. Firmware version/software version: Click on the version to upgrade the system version online. (Firmware version upgrade requires restoring factory settings)
- d. Restore factory: restore the firmware system program, empty the internal storage data. (system jam can be restored)

Part III: V88 portable live all-in-one machine live operation

一. Guide interface



1. Add video source: Click to add HDMIIN1.HDMI2.USB camera/capture card, local video source, network video source, pictures, etc. You can switch between four camera guides.

2. Guide mode and layer operation area: for guide switching screen multi-screen editing (available in My - Live Settings - Guide)

(Broadcast mode setting - custom setting various screen ratio modes)

3. Live control bar



Exit

End the live broadcast and exit the guide interface



Live

Turn on live streaming and use priority network to push the stream (such as access to a variety of networks can not push the stream to set the network priority externally)



Record

Turn on recording and save it to the device's own memory by default. You can change the save path and file size in Me-Director Settings.



Background image, you can add a background image when not cut into the video source.

jpg, png format



You can set the output bit rate, video border, switch animation, and highlight replay. **After opening the highlight replay, generate highlight replay will appear at the bottom of the live**

screen and click to automatically generate a replay of the video played 10 to 20 seconds ago.

More modifications in My - Live Settings.



Change the HDMIout mode. Output live screen, output the whole device screen.



RTSP Server
Mode




RTSP Server

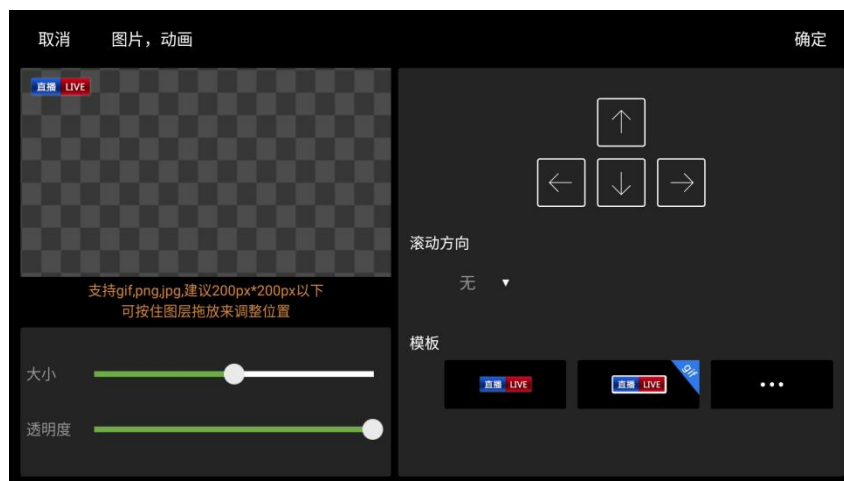
Two LAN service modes, RTSP protocol and RTMP protocol mode, in the same LAN using other devices to transfer the screen to the device, add network signal source.

Can be used for computer OBS, cell phone, drone LAN pull video stream screen.



Add a variety of sound effects, such as applause, applause. (No material at the moment)

4. Guide mode and layer switching  Click on the icon to add time display, picture, animation, text editing, score mode, title customization.



You can use gif, png, jpg. format to enter via memory or USB flash drive.

The score layer can be selected from various score templates, team names. Click on Confirm to finish editing



The fourth part, technical parameters

Network.

Support Network	<ul style="list-style-type: none"> ◆1 x WIFI built-in module. IEEE 802.11a /n/g/b 2.4G+5G ◆1 x Ethernet 10M/100M: Local network port ◆1 x 4G network
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Input.

Video Input	Dual HDMI IN : HDMI1 (primary), HDMI2 (secondary)
	<ul style="list-style-type: none"> ◆ HDMI support resolution. <p>Interlaced and progressive resolution support</p> <p>3840*2160,1920*1080,1600*900,1440*900,1440*1050,1366*768,1360*768,1280*1024,1280*960,1280*800,1280*720,1280*600,1024*768,800*600 etc.</p>
Audio Input	<p>Digital audio: HDMI input</p> <p>Analog audio: MIC input and line audio input</p>

Live output.

Video	<p>Video encoding method: H264, H265</p> <p>Video encoding frame rate: 25/30/60HZ</p> <p>Guide resolution: 4K /1080P /720P</p> <p>Output code rate: dynamically adjustable.</p>
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Audio	Audio encoding: aac The audio bit rate is the default: 96. Selectable: 64kbps,96kbps,128kbps,160kbps,192kbps,256kbps Audio sampling rate: 48KHz,44.1KHz
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System.

Operating System	Android 10.0
Network	RJ45: 1000M network port Wireless WIFI : 2.4G+5.2/5.8G
Screen	8" 1080P touch screen
Memory	8G RAM + 128G ROM
Upgrade	Software upgrades available via the web

Interface.

USB	1* TYPE-C 2*USB3.0
SD Card	Supports up to 256G
SIM card	Midcard

General.

Size	Packing box (WxLxH)220*150*70mm
V88	Width: 123mm Thickness: 23mm Length: 215mm
Weight	Single unit 0.35KG Package weight: 0.4KG
Temperature range	0~45°C(working), -20~80°C(storage)
Power supply	Battery power Charging voltage 3.6-8V/3A, 12V/2A
Power consumption	Battery capacity is: 10000mAh (18W)

FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

SAR Statement for Monitor

Specific Absorption Rate (SAR) information:

This tablet meets the government's requirements for exposure to radio waves. The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons regardless of age or health. ISED RF Exposure Information and Statement the SAR limit of Canada (ISED) is 1.6 W/kg averaged over one gram of tissue. Device types: tablet has also been tested against this SAR limit. This device was tested for typical body-worn operations with the back of the tablet kept 0mm from the body. To maintain compliance with ISED RF exposure requirements, use accessories that maintain an 0mm separation distance between the user's body and the back of the tablet. The use of belt clips, holsters and similar accessories should not contain metallic components in its assembly. The use of accessories that do not satisfy these requirements may not comply with ISED RF exposure requirements, and should be avoided.