

HD8107

Audio and Video Integrated Android Video Conference Terminal



Features

- **Audio and Video Integrated System**

It integrates 1080P30 HD camera, array microphone, high-fidelity speaker, and high-performance Android chip, and one device can start a meeting when the device is connected to the network and display device.

- **Dual-purpose Machine**

It can be used as not only an Android video conference terminal, but an audio and video integrated USB camera which can be connected to a PC as a peripheral device.

- **Split Screen Display**

It supports dual HDMI output, and can display the main and sub streams in full screen respectively.

- **Multi-protocol Integration (Optional)**

The standard SIP protocol video conference terminal software has super interoperability and supports Android video conference software such as Zoom, DingTalk, and Tencent.

Description

HD8107 Audio and video integrated Android video conference terminal can achieve the functions of audio and video signal acquisition, encoding, transmission, decoding and other functions, with the main structure including audio and video acquisition part, codec and audio and video input and output parts. The audio and video integrated Android video conference terminal features good real-time performance and interactivity, and can easily realize information exchange between man and machine and between man and man, so that video, audio and other information can be exchanged among conference venues through video conference, enabling a high-efficiency communication transmission.

Specification

System	
Operating System	Android 9.0
CPU	4 x Cortex-A73@2.2GHz + 2 x Cortex-A53@1.8GHz
RAM	4GB
ROM	8GB EMMC
Bandwidth	IP 64 Kbps ~ 8Mbps
Video	
Video Input	1 x Built-in camera 1 x HDMI input, support HDMI 1.4, maximum resolution 1080P@30Hz
Built-in Camera	Sensor: 1/2.5 inch CMOS, effective pixel 8.51MP, FOV: DFOV: 121°, HFOV: 110° 5x digital zoom PTZ: Mechanical PTZ, Pan/Tilt: ±15°; Electronic PTZ Backlight Compensation: Support Digital noise reduction: 2D, 3D digital noise reduction SNR: ≥55dB
Video Output	1 x HDMI OUT1, support HDMI 2.1 1 x HDMI OUT2, support HDMI 1.4
Video Encoding	H.264

Video Decoding	1080P30 (mainstream) +1080P30 (substream)
Other Image Property	Split screen
Audio	
Audio Input	1 x Built-in array microphone (4 mics), with pickup distance 6m 1 x USB 1 x HDMI embedded audio input (Mainboard reserved USB port expansion) 1 x Bluetooth audio input (optional)
Audio Output	1 x Built-in speaker (SPL 96dB@0.5m) 1 x USB 1 x HDMI embedded audio output 1 x Bluetooth audio output (optional)
Audio Property	Automatic Gain Control (AGC) Automatic Echo Cancellation (AEC) Automatic Noise Suppression (ANS) Automatic Lip Sync
Other Interfaces	
Power Interface	1 x DC 12V/3A power interface
Remote Controller	Bluetooth remote controller interface
USB Port	1 x USB 3.0 Type-A Host 1 x USB 2.0 Type-A OTG 1 x USB 3.0 Type-C (used to connect with a PC as a camera and SpeakerPhone)
Network Interface	1 x RJ45, 10M/100M/1000M Base-T 1 x RJ45, 10M/100M Base-T, support 15W PSE
Wireless Connection	1 x WiFi (dual frequency 2.4G&5.8G), 802.11a/b/g/n/ac (optional)
Bluetooth	BT 5.0
SIP	
Multimedia Framework Protocol	IETF SIP
Video Codec Protocol	H.264
Audio Codec Protocol	G.711A、G711U、G.722、AAC、OPUS
Dual Stream Protocol	BFCP
Network Protocol	TCP/IP, DHCP, SSH, with SSL/TLS, RTP, RTCP, RFC3261, RFC3264, RFC2190, RFC3407, RFC2833, RFC4585(RTP/AVPF), SNTP, ARP
Image Resolution	1080p 30fps, minimum bandwidth 1 Mbps 720p 30fps, minimum bandwidth 512 Kbps 576p 30fps, minimum bandwidth 256 Kbps
Dual Stream	1080P@30fps(mainstream)+1080P30@10fps(substream)
General Property	

Dimensions	<ul style="list-style-type: none">• Terminal Dimensions: 601mm * 141mm * 115mm (bracket included)
Electrical Characteristics	<ul style="list-style-type: none">• Working Voltage: DC 12V• Maximum Power Consumption: 36W
Environmental requirements	<ul style="list-style-type: none">• Temperature: 0°C ~ 40°C (working state), -40°C ~ 70°C (non-working state)• Relative Humidity: 10% ~ 80% (working state), 0% ~ 95% (non-working state)