Video Conferencing Endpoint (H.323/SIP)

Full HD Video Conferencing Endpoint
UAI4C10

| 1080P FULL HD | H.323 SIP | 30% Packet loss Video | | |
| 1080P | H.323 SIP | 30% Packet loss Video Resistance4 in 4 out | | Audio 7 in 4 out |

1080P endpoint, high quality image performance and high cyber security, support dual languages Simultaneous interpretation, minimal configuration and compatible with various conferencing platform. Best choice for medium-size conference room, provide high quality A/V experiences and seamless communication for end users.

Features

Standard Protocol, Convergence and Interoperability
Standard SIP and H.323 protocols supported; compatible with the industry's mainstream standard terminals and networked devices.

Low Bandwidth and High Definition
H.264 HP coding standard supported; 50% less bandwidth than the previous-generation compression standard.

Multiple Sound Input
Various audio input solutions such as USB microphone, analog microphone and linear input are supported to suit different conference scenarios and meet more audio requirements.

Excellent Network Security
H.460 firewall traversal supported to guarantee the secure connection of public and private networks. Encryption algorithms such as H.235, AES-256, AES-128, SRTP and other protocols are supported for all-round guarantee for IP communication security.

1080P Full-HD
1080P60 ultra-fluid full-HD video; four (HDMI +DVI-D + 3G-SDI + VGA) HD video inputs and four (3×HDMI + 3G-SDI) HD video outputs supported.

Embedded DSP Solution
Embedded DSP Solutionhardware solution offers high efficiency and low latency

Fully Open API
Fully open API supports the development of third-party applications and is easy for secondary development by customer to meet their customization requirements.

Simultaneous Bilingual Audio Signals Supported
Simultaneous bilingual audio signals are supported; This terminal support simultaneous input /output of voice in two different languages and the flexible mixing and coded output of voice in two different languages.

Superior Anti-packet Loss Capability
The proprietary FEC technology could be activated in the event of severe network packet loss; the loss of less than 20% packets has no effect on the system, and conferences can still go on even if 30% packets are lost.

Local and Remote Recording & Broadcasting
Remote recording and broadcasting are supported; conference recording and broadcasting is realized with only one PC. USB flash disk can be used to record and keep conference minutes confidential.

RTMP Live Streaming (Optional)
The device supports RTMP push streaming to the live broadcast platform for live broadcasting of conference.

Built-in MCU (Optional)
Built-in MCU (optional) support up to 1+5 terminal HD video conferencing, ideal for small- and medium-sized enterprises that require low cost and simple maintenance of video conferencing.

Product Specification

Standard & Protocol

Multimedia Framework Protocol	ITU-T H.323,IETF SIP
Video Codec Protocol	H.261, H.263, H.263+, H.263++, H.264, H.264 High Profile
Audio Codec Protocol	G.711, G.722, G.722.1*, G.722.1C*, AAC-LD, G.726, SILK
Double Stream Protocol	ITU-T H.239, IETF BFCP
Other Communication Protocols	H.221, H.224, H.225, H.235, H.241, H.245, H.281, H.350, H.460, T.140, DTMF
Network Transmission Protocols	TCP/IP, DHCP, SSH, HTTP, HTTPS with SSL/TLS, RTP, RTCP, RFC3261, RFC3264, RFC2190, RFC3984, RFC3407, RFC2833, RFC4585(RTP/AVPF), SNTP, ARP, RTMP

Video Features

Active Image Resolution	•1080p, min. bandwidth 1024Kbps •720p, min. bandwidth 512Kbps •w448p/4SIF/4CIF, min. bandwidth 256 Kbps •w288p/SIF/CIF, min. bandwidth 128 Kbps
Data Content Resolution	•Input: VGA (640×480), SVGA (800×600), XGA(1024×768), WXGA(1280×768), WXGA (1280×800), 1280×960, SXGA(1280×1024), 1360×768, 1366×768, 1440×900, 1600×900, 720p(1280×720), 1080i(1920×1080),1080p(1920×1080) •codec: 800×600, 1024×768, 1280×1024, 1280×720, 1920×1080 •Output: 800×600, 1024×768, 1280×1024, 1280×720, 1920×1080
Active Double Stream	1080P60+1080P60
Other Image Feature	PIP, POP and other display modes supported; three screens and three displays

Audio Features

Audio Feature	•Automatic echo cancellation (AEC) •Automatic gain control (AGC) •Automatic noise suppression (ANS) •Lip-sync supported

Reliability & security

Network Adaptability	Video forward error correction (FEC), automatic repeat request (ARQ) etc
Security Management	•H.235 signaling and media stream encryption(AES-128, AES-256) •TLS and SRTP •Administrator password: SSH/HTTPS
NAT/Firewall Traversal	H.460 static NAT

Bandwidth

IP	64kbps ~ 8Mbps

I/O

Audio Input Interface	2 × RC Alinear input, 2 × Cannon plug microphone input; 1 × DMIC, 1 × DVI-I, 1 × HDMI
Audio Output Interface	2 × RC Alinear output, 2 × HDMI Audio output;
Video Input Interface	1 × HDMI, 1 × VGA 1 × DVI-I, 1 × 3G-SDI
Video Output Interface	3 × HDMI, 1 × 3G-SDI
USB Interface	2 × USB2.0 (USB flash disk supported)
Network Interface	2 × RJ45: 10/100/1000M LAN
Camera Control Interface	2 × RJ45

Conferencing Features

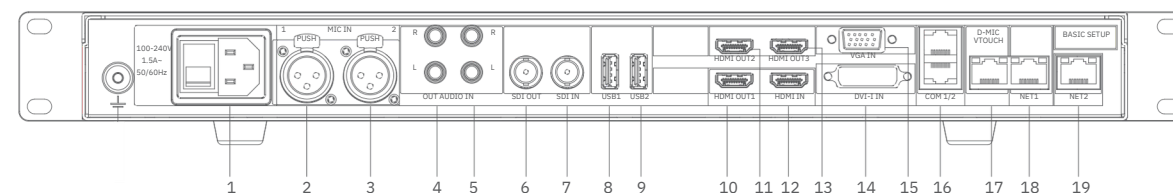|	
Language	Simplified Chinese, Traditional Chinese, English, Polish, etc.
Contacts and Call History	•1000 local contacts and call records
Featured Functions	•Auxiliary flow accompanying sound; •Time switch; • Support DNS SRV; •Automatic standby and automatic wake-up for incoming calls •Incoming password; • Asymmetric bandwidth; •Automatically obtain static NAT addresses •Picture in Picture (1/16 screen size), Picture beside Picture; • Network address book •Two or three split screen display; •Support for third-party integrated development API interfaces; • Built in MCU; •Support for meeting control and meeting lists •USB microphone connection •USB upgrade, local upgrade, and network upgrade; • Infrared transmission; •Meeting locking; • PC console; •Vtouch control screen;• TR069; •RTMP streaming and pull live streaming

Generic Spec

Dimension	•Dimension：375mm (W) × 428mm (D) × 89mm (H) •Net weight：3.5 Kg
Power Supply	•Operating voltage：AC 100V ~ 240V •Operating frequency：50Hz/60Hz •Max. power consumption：＜50W
Environmental Requirements	•Temperature：0 ° C ~ 40 ° C (working condition), -40° C ~ 70° C (Non working state) •Humidity: 10% ~ 80% (operating), 0% ~ 95% (non-operating) •Ambient noise：＜46dBA SPL •Min. illuminance：5lux •Recommended illuminance：＞300lux
Certification and Standards	China Telecom Network Access, CCC, CE, RoHS, FCC

Interface Diagram

1 —— Power	6 —— SDI OUT	1 —— HDMI OUT	1 —— COM1/2
2 —— MIC IN	7 —— SDI IN	1 —— HDMI IN	6 —— D-MIC VTOUCH
3 —— MIC IN	8 —— USB	1 —— HDMI OUT	1 —— NET
4 —— AUDIO OUT	9 —— USB	2 —— DVI-I IN	7 —— NET
5 —— AUDIO IN	10 —— HDMI OUT	1 —— VGA IN	1
		3	8
		1	1
		4	9
		1	