GENIUS LET'S RISE...

GEN 4000 SERIES
UHD Video Conferencing System

Description

GEN 4000 series is a new split-type HD video conference terminal, which support H.265 technology, ultra-low bandwidth to fulfill 4K video effects, integrated with various audio and video interfaces, suitable for various medium and small size of meeting applications

Features

* Adopt split type structure, built-in hardware video processing unit, with embedded operating system, non-Windows or Android operating system.
* Support ITU-T H.323 standard protocol, with good compatibility; support VCS protocol, H.239 dual-stream protocol, both main and auxiliary streams can reach 1080P.
* Call bandwidth supports 64Kbps-8Mbps; support QCIF, CIF, 4CIF, 480P, D1, 720P, 1080P, 4K video resolution.
* Support 1280 * 720P 60fps / 50fps / 30fps / 25fps, 1920 * 1080P 60fps / 50fps / 30fps / 25fps.
* Support 1280 * 720P 60fps / 50fps / 30fps / 25fps, 1920 * 1080P 60fps / 50fps / 30fps / 25fps, 3840 * 2160P HD output.
* Support H.264, H.264 MP, H.264 HP, H.265 video codec protocol, support G.711, G.722, G.722.1, G.722.1C, OPUS and other audio codec protocols, sound quality is up to 48KHz.
* Built-in MCU function module, supports 16-party conferences, support for smooth expansion to 22 points with built-in MCU function; support for built-in MCU conferences to hold mainstream auxiliary stream conferences, support PC version or mobile terminal to join the conference.
* Support the interception of auxiliary stream screen for labeling function, and meet the interactive operation of remote training and teaching.
* Support terminal control through 2.4G remote control, web, touch, mouse and keyboard, support remote control flying mouse control mode.
* Support randomly open and close remote video, support flying mouse mode to drag and change the video position in the screen layout.
* The terminal adopts the B/S management structure and can be remotely managed by logging in to the web via a browser.
* Support the chairman control mode. After applying for chairman authority, you can control the dual streams encoding rate, resolution and other parameters of all remote sites, and support the up, down, left, and right movement, focusing, and zooming operations of the PTZ camera on the remote site.
* Support active opening of the remote auxiliary stream screen, and can view auxiliary stream pictures of up to 25 different video terminals at the same time.
* Support single-screen dual-display, dual-screen dual-display application functions; Support multi-screen layout, picture-in-picture and other common layout types; single-screen support 25-channel display at the same time.
* Support to control the dual-stream bandwidth of all remote sites, and support PTZ control for remote sites.
* Support controlling the speaking right of other terminals in the same conference.
* Equipped with USB interface, support USB storage device connecting; support conference recording function, can directly record video and audio during the conference.
* The terminal has built-in conferences sign-in, electronic whiteboard, electronic voting, filling and other data conferencing functions to meet the needs of remote training, teaching and other scenarios.
* A complete SDK development manual for the terminal can be provided, and functions such as adjusting the camera of the terminal, sending scrolling messages, setting banners, switching screen layouts, and controlling the speaking right of each venue can be called through the SDK, which can be seamlessly integrated with third-party systems.
* Rich audio and video interfaces: support 4 HDMI high-definition input interfaces, 3 HDMI high-definition output interfaces; 6 audio input interfaces, 4 audio output interfaces.
* Support IP network packet loss repair mechanism to ensure that the image is free of mosaic when the packet loss rate reaches 5%; when the packet loss rate reaches 8%, the meeting can still be held normally; when the packet loss rate reaches 20%, the image is acceptable; 70% packet loss The audio will not be affected when the rate is high, ensuring the normal progress of the meeting.
* With ultra strong network adaptability, it adjusts the resolution automatically according to the network to ensure the meeting goes fluently.
* Support the banner function, you can add a banner to the conference screen, and can set whether to enable the banner and the font size, font color, background color and transparency of the banner.
* Support scrolling message function, you can send scrolling messages, and you can set whether to enable scrolling messages and the font size, font color, background color, transparency and scrolling times of the scrolling messages.
* Support automatic noise suppression, automatic gain control and automatic echo cancellation, lip sync and other audio processing functions.
* Support the site mute and silence function, and the volume of venue sound is adjustable.
* Support voice priority, QOS strategy mode, IP Precedence, Diffserv.
* Support IPV4 and IPV6 protocols, support NAT traversal, and have the ability to cross routers and firewalls to ensure system security.
* It has good management and maintainability, supports local audio and video loop diagnosis functions; one-click local audio and video testing; supports network ping test on the operation interface; supports call log and historical record query.

Build-in Mcu	16 sites
Framework Protocol	In accordance with ITU H.323 and VCS protocol
Video Input	4-channel HD video input interface, HDMI*4
Video Output	3-channel HD video output interface, HDMI*3
Audio Input	6-channel audio input interface, XLR*1, RCA*1, HDMI*4
Audio Output	4-channel audio output interface, HDMI*2, SPDIF (optical port)*1, RCA*1
Internet Port	2-way Gigabit Ethernet port, RJ45*2
Usb Interface	≥3 USB ports for connecting to expansion devices or online upgrade
Display Method	Support 4:3 and 16:9
Ambient Temperature	0°C to 35°C (operating state), -40°C to 55°C (non-operating state)
Relative Humidity	10%~80% (operating status), 0%~95% (non-operating state) (non-condensing)
Size	440mm×225mm×45mm
Power Supply	DC12V/5A
Weight	3.2Kg