



Functional description:

1. Adopt a China-made solution with a built-in hardware video processing unit, including audio and video codec unit, main control chip, memory chip, video input and output chip, etc.
2. The overall delay of video images after local collection, encoding, network transmission, decoding and display output is no more than 150ms.
3. Support video codec protocols such as H.264, H.264 MP, H.264 HP and H.265, and audio codec protocols such as G.711, G.722, G.722.1, G.722.1C and OPUS, with the maximum sound quality up to 48KHz.
4. Support communication protocols such as ITU-T H.323, IETF SIP and SCM cloud protocol; it can be connected to mainstream video conferencing devices of Huawei, ZTE, Polycom, Cisco, Rongxun and other brands.
5. Support 4KP30 and H.265 codec algorithms, with the call bandwidth ranging from 64Kbps to 10Mbps; support the transmission of video resolutions such as 4K30, 1080P, 720P, 4CIF and CIF; realize 4KP30 encoding with 1Mbps, and support the transmission of 4K30 frames for mainstream video and 4K15 frames for auxiliary video.
6. Support the built-in MCU mode, supporting a maximum of 16 terminals to join the meeting simultaneously; support the access of different clients including hardware terminals, all-in-one terminals, portable terminals, PC clients and mobile phones; support connection with third-party video conferencing devices.
7. Support local recording of video conferencing terminals, which can record local images, remote images, dual-stream images and multi-images as required; support real-time image and audio recording of no less than 25 meeting venues with a video frame rate of not less than 30 frames and lip-sync function; generate standard mp4 format files and support terminal on-demand playback.
8. Support HD surveillance cameras in the same network segment to send surveillance images to the video conferencing terminal via IP network, which can be directly displayed as the terminal video source and used as the mainstream image to join the meeting directly.
9. Support intelligent voice control, realizing functions such as joining/ending meetings, adjusting volume, sending/stopping dual-stream sharing through voice commands.
10. Support face check-in and group check-in functions; the face recognition check-in technology requires no clicking or setting—participants only need to walk into the meeting venue to complete the check-in automatically when entering the meeting, and group check-in is also available. This saves precious time and energy, allowing participants to focus more on the meeting content.
11. Support digital signboards for displaying participants' names, position introductions and other information during the meeting; realize the presentation of digital identity signboards for all participating venues, including local and remote venues.
12. Support auxiliary video watermark function: add watermarks to screen sharing during meetings, and support custom watermarks.
13. Natively support multiple conference Rooms platforms (Rooms platforms are not conventional software downloaded on PCs or smart phones), including H.323/SIP, Tencent Meeting, Zoom and other platforms; the device does not need to be restarted when switching between different conference platforms.
14. Support receiving the unified background address book, which can be pushed to all terminals uniformly by the platform and updated automatically; the online and offline status of terminals in the address book can be viewed on the terminal address book interface.
15. Support meeting reservation on the terminal: select the participants and start the meeting to quickly create a virtual meeting on the MCU; only the selected participants can join the meeting through the meeting list, and unselected participants are not allowed to enter.
16. Support instant meetings: virtual meeting rooms can be convened by the terminal without MCU creation; point-to-point calling of a certain meeting venue is available through the enterprise address book, and seamless upgrade to multi-person interactive meetings is supported; support functions such as electronic whiteboard, file sharing, electronic voting, meeting check-in, auxiliary video annotation and interactive annotation.
17. Support multiple control methods, and the terminal can be controlled by 2.4G remote control, infrared remote control, web, meeting control tablet, mouse and keyboard, etc.; support one-click sleep and one-click wake-up via the remote control.
18. Support auxiliary video access via wired and wireless methods, and simultaneous connection of multiple wireless auxiliary videos (no less than 16); realize free switching of wireless auxiliary video images during the meeting.
19. Support local wireless screen projection with no less than 16 computer wireless screen projection connections and free switching of projected images.
20. Support external touch control tablet VY-M2020, which is integrated with a capacitive touch screen of no less than 10.1 inches; the whole system supports no less than 10 conference touch control tablets. The touch control tablet can realize operations on the terminal such as dialing, reservation and creation of virtual meetings, auxiliary video sharing, auxiliary video switching, image layout switching, chair control, image polling, banner display, rolling subtitles and electronic whiteboard. The electronic whiteboard function supports changing stroke color and thickness, erasing strokes, clearing strokes and blanking the whiteboard, etc.

Technical specifications:

Model	VY-TE160S(60)	VY-TE160SH(60)
Built-in MCU Channels	None	6

Model	VY-TE160S(60)	VY-TE160SH(60)
Communication Protocols		
Multimedia Protocols	ITU-T H.323, IETF SIP, SCM Cloud Protocol	
Video Codec Protocols	H.264, H.264 MP, H.264 HP, H.265	
Audio Codec Protocols	G.711, G.722, G.722.1, G.722.1C, OPUS	
Dual-Stream Protocols	ITU-T H.239, BFCP	
Video Features		
Access Rate	64Kbps–8Mbps, Adjustable Arbitrarily	
Active Image Resolution	4K30, 1080P, 720P, 4CIF, CIF	
Data Content	Supports Single-Screen Dual-Display, Dual-Screen Dual-Display	
Audio Features	Acoustic Echo Cancellation (AEC), Noise Suppression, Automatic Gain Control, Multi-Channel Audio Mixing, Lip-Sync	
Network Adaptability	IP Network Packet Loss Recovery: No mosaic in images when packet loss is 5%; Meetings can be held normally when packet loss is 8%; Acceptable images when packet loss is 20%. Adaptively adjusts video bit rate according to network bandwidth to ensure smooth meetings. Supports NAT Traversal, and QoS policies such as IP Precedence and DiffServ.	
Video Input	1 RTSP Input, 1 HDMI Input Interface, 1 USB-HDMI IN Expansion Input Port; (USB supports audio and video)	
Video Output	1 HDMI Output Port, 1 Type-C HDMI Expansion Output Port	
Audio Input	2 Audio Input Interfaces: 1 LINE IN, Omnidirectional Microphone, USB	
Audio Output	3 Audio Output Interfaces: HDMI*1, LINE OUT*1, Omnidirectional Microphone, USB	
Bluetooth Module	Built-in Bluetooth Module	
Other Interfaces	3 USB 2.0 Interfaces, 1 USB 3.0 Interface, 1 RS232 Interface	
Network Interface	1 Gigabit Ethernet Port, 1 WIFI Antenna Interface, Supporting 2.4/5GHz Dual Band	
Temperature Environment Requirement	0°C ~ 35°C (Operating State); -40°C ~ 55°C (Non-Operating State)	
Relative Humidity	10% ~ 80% (Operating State); 0% ~ 95% (Non-Operating State)	
Power Supply	DC 12V 2A	
Device Dimensions	300mm*195mm*35mm	
Power Consumption	24W	
Weight	1.6Kg	