



Functional description:

1. The main components of the terminal are independently developed and produced in China, including audio and video coding and decoding units, main control chips, video input and output chips, etc.
2. The overall delay of the video image after local collection, encoding, network transmission, decoding and display output is no more than 150ms.
3. It supports video coding and decoding protocols such as H.264, H.264 MP, H.264 HP and H.265, as well as audio coding and decoding protocols such as G.711, G.722, G.722.1, G.722.1C and OPUS, with the maximum sound quality up to 48KHz.
4. Adopting an integrated design, it integrates a touch display screen, array microphones, a speaker, a camera, a battery and 4K coding and decoding capability into one unit.
5. It is a portable and movable terminal with a built-in battery, no need for external power supply, and supports multiple network access methods such as Ethernet and WiFi (5G mobile network is optional). It can be used immediately after booting and connecting to the network without any other peripheral devices, enabling meetings to be held anytime and anywhere, and applicable to various scenarios such as outdoor mobile office, personal office and meeting room.
6. Equipped with a built-in 4K camera, it provides users with high-quality online video conferences, featuring auto focus, clear and smooth video images, and high-definition real-time synchronous pictures. The camera can be adjusted slightly up and down for more convenient use.
7. Built-in 4 array microphones with a sound pickup distance of 5 meters can capture clear sound in a 360° all-round way, receive sound evenly from all directions and restore human voices realistically. The application of echo cancellation technology can eliminate echoes and howling generated during voice intercom. With built-in audio noise reduction capability and excellent full-duplex communication effect, it enables simultaneous speaking and sound receiving without missing any words. The built-in high-performance speaker outputs high-fidelity audio, making video conferences as smooth as face-to-face communication.
8. It supports 4KP30 and H.265 coding and decoding algorithms, with the call bandwidth supporting 64Kbps-10Mbps; it supports the transmission of video resolutions such as 4K, 1080P, 720P, 4CIF and CIF, realizes 4KP30 encoding with 1Mbps, and the main and auxiliary streams can achieve 4K transmission at the same time.
9. It supports HDMI connection for display extended output, with the maximum support for 4KP60 output; it only supports HDMI input, which can connect signal sources such as cameras, PCs and laptops, with the maximum support for 4KP60 input.
10. It supports auxiliary stream access via wired and wireless methods, and allows simultaneous connection of multiple wireless auxiliary streams (no less than 16), enabling free switching of wireless auxiliary stream images during meetings.
11. It supports local wireless screen projection, with no less than 16 computer wireless screen projection connections, and allows free switching of projected images.
12. It supports intelligent voice control, enabling functions such as joining/ending meetings, adjusting volume, sending/stopping dual-stream sharing through voice commands.
13. It supports 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 room to complete check-in automatically when entering the meeting, and group check-in is also available. It saves precious time and energy, allowing participants to focus more on the meeting content.
14. It supports digital signage, which can display participants' names, position introductions and other information during meetings; it also supports the presentation of digital identity signage for all participating venues, including local venues and remote venues.

Technical specifications:

Model	VY-M2160
Communication Protocol	
Multimedia Protocol	ITU-T H.323, IETF SIP, SCM Cloud Protocol
Video Codec Protocol	H.264, H.264 MP, H.264 HP, H.265
Audio Codec Protocol	G.711, G.722, G.722.1, G.722.1C, OPUS
Dual Stream Protocol	ITU-T H.239, BFCP
Screen	13.3-inch Touch Screen
Battery Capacity	4800mAh
Built-in Camera	Built-in 8.3MP 4K30 Camera with 83° Horizontal Field of View
Video Features	
Access Rate	64Kbps–8Mbps, Arbitrarily Adjustable
Video Input	1*HDMI Input
Video Output	1*HDMI Output
Active Image Resolution	4K30, 1080P, 720P, 4CIF, CIF
Audio Features	
Audio Processing	Acoustic Echo Cancellation (AEC), Noise Suppression, Automatic Gain Control, Lip Sync
Audio Input	Built-in Array Microphones, USB Audio
Audio Output	Built-in Speaker, USB Audio
Network Communication	
Network Adaptability	IP network packet loss recovery: no image mosaic when packet loss is 5%; meeting can be held normally when packet loss is 8%; acceptable image when packet loss is 20%. It 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.
Network Interface	1 Gigabit Ethernet Port
Other Interfaces	2*USB3.0
Operating Temperature	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 15V 4A
Device Dimensions	318mm*167mm*353mm
Power Consumption	60W
Weight	2kg