



No.	Description	No.	Description
1	LINE IN Interface	7	LAN Interface
2	LINE OUT Interface	8	HDMI Interface
3	Video Format Rotary Switch	9	3G-SDI Interface
4	RS485 Interface	10	USB 3.0 Interface
5	RS232 IN Interface	11	DC 12V Power Interface
6	RS232 OUT Interface	12	Power Switch

Functional description:

1. Adopts a high-quality CMOS sensor with 1/2.8-inch size and 2.07 million effective pixels, capable of achieving high-quality images with a maximum resolution of 1920x1080. The optical zoom can reach 12/20/30x, and the digital zoom can reach 16/16/8x.
2. The new CMOS image sensor with ultra-high signal-to-noise ratio (SNR) can effectively reduce image noise in low-light conditions. By applying 2D and 3D noise reduction algorithms, image noise is greatly reduced, maintaining clean and clear images even in ultra-low light environments with an SNR of over 55dB.
3. The new generation ISP image processing algorithm provides more comprehensive white balance and automatic exposure functions, significantly improving the camera's image output performance and achieving better imaging results.
4. Uses an advanced focusing algorithm to enable the lens to complete focusing quickly, accurately and stably.
5. Built-in AI technology and pedestrian re-identification technology, supporting automatic framing of participants and automatic tracking of speakers.
6. Built-in dual-microphone array.
7. Supports PoE power supply.
8. Supports AAC audio encoding, delivering better sound quality and lower bandwidth occupation.
9. Supports HDMI and 3G-SDI high-definition output interfaces. The 3G-SDI interface has a maximum effective transmission distance of 150 meters (1080P30). It supports four video channels: HDMI, SDI, USB, and network, and allows simultaneous output via USB, network, HDMI or SDI.
10. Supports RS232 and RS485 serial ports for remote control of the camera.
11. Supports resolutions including 1080P60, 1080P59.94, 1080P50, 1080i60, 1080i59.94, 1080i50, 1080P30, 1080P29.97, 1080P25, 720P60, 720P59.94, 720P50, and supports an output frame rate of 60 frames per second.
12. Widely used in industries such as educational video recording, distance education, video conferences, live streaming, and broadcasting.

Technical specifications:

	VM-S840-12	VM-S840-20	VM-S840-30
Lens Focal Length	f3.5mm~42.3mm, Aperture F1.8~F2.8	f4.42mm~88.5mm, Aperture F1.8~F2.8	f4.42mm~132.6mm, Aperture F1.8~F2.8
Zoom	12x Optical Zoom, 16x Digital Zoom	20x Optical Zoom, 16x Digital Zoom	30x Optical Zoom, 8x Digital Zoom
Preset Positions	255 positions, Preset Accuracy: 0.1°		
Horizontal Field of View	72.5°~6.9°	60.7°~3.36°	60.7°~2.28°
Vertical Field of View	44.8°~3.9°	34.1°~1.89°	34.1°~1.28°
Horizontal Rotation Range	-170° ~ +170°		
Vertical Rotation Range	-30° ~ +90°		
Horizontal Rotation Speed Range	1.7°~100°/s		
Vertical Rotation Speed Range	1.7°~69.9°/s		
Video Interfaces	1*HDMI, 1*3G-SDI, 1*USB3.0		
Audio Interfaces	1*3.5mm LINE IN, 1*LINE OUT		
Control Interfaces	1*RS485, 1*RS232 IN, 1*RS232 OUT, 1*RJ45		
Input Voltage	DC12V		
Input Current	1.2A (Max.)		
Operating Temperature	0°C~40°C		
Storage Temperature	-40°C~60°C		
Power Consumption	12W		
Dimensions (W*D*H)	169*142*175mm		
Net Weight	1.5Kg		