HD8018SH

Remote Video Conference Camera

Description

The HD8018SH is a professional PTZ camera designed for video conferencing. It features a 1/2.8-inch CMOS sensor with 2MP resolution, delivering Full HD 1080p images with clear detail and smooth motion. The camera supports 12×/20× optical zoom, wide horizontal and vertical fields of view, AI tracking, preset tours, and image freeze for precise operation. It offers SDI, HDMI, USB 3.0, and network interfaces for flexible connectivity.

Features

- Precise positioning, smooth and quiet PTZ control: Driven by a precision motor with advanced control algorithm, it provides a very quiet, smooth and stable operation, moving precisely and quickly to the designated position for a wide range of shots.
- True 1080P60 HD images: It utilizes a high-quality “Exmor R” CMOS sensor with 1/2.8-inch 2 million effective pixels for high-quality images at full HD 1080 resolution. While ensuring high-definition image quality, it places emphasis on meeting the requirements for smooth and fluent video performance.
- Low noise and high S/N ratio: It applies 2D and motion-based 3D noise reduction algorithms, with a new generation of low-noise sensors to reduce noise effectively.
- Multiple optical zoom and 12x digital zoom
- 1080P60 high-definition HDMI video output: Supports 1080P60/50/30/25, 720P60/50 and other high-definition video formats.
- 1080P60 high-definition USB3.0 video output: Supports 1080P30/25, 720P30/25 and other high-definition video formats.
- 1080P60 high-definition network video output: Supports 1080P60/25, 720P60/50 and other high-definition video formats.
- 3G-SDI video output: Supports 1080P60/50/30/25, 720P60/50 and other high-definition video formats.
- 255 preset points: It can preset up to 255 points through the serial port, including pan, tilt, and zoom

presets, and the preset data can be saved even when the camera is powered off.

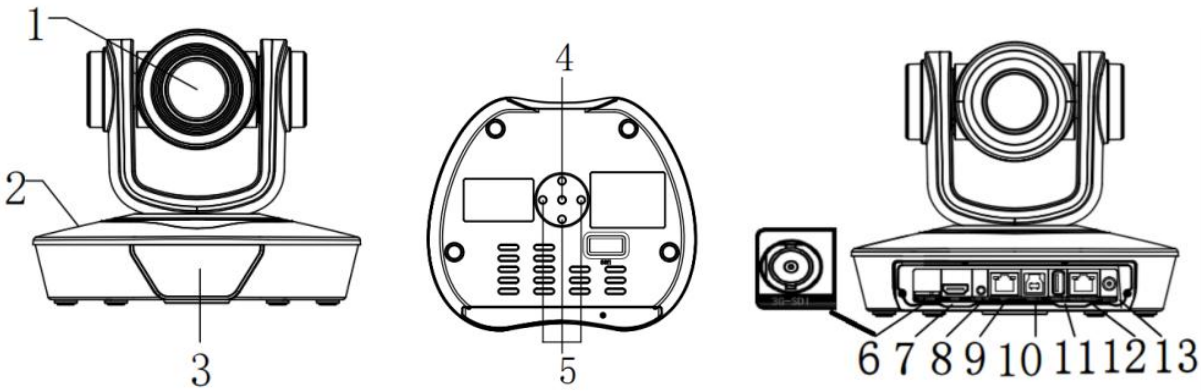
- Multi-function remote control: Equipped with an easy-to-operate remote control, in addition to basic settings and control of pan, tilt, and zoom, it allows you to call up the menu and set the relevant parameters of the camera via the remote control.
- OSD menu in Chinese and English: With an extensive OSD menu, it allows you to control English and Chinese OSD menus via the remote control.

Specifications

Model		HD8018SH
Camera		
Signal System		1080P60/50/30/25, 720P60/50
Sensor		1/2.8-inch high-quality CMOS sensor with 2.1 million effective pixels
Scanning Mode		Progressive scanning
Digital Zoom		12x
Minimum Illumination		Support ultra-low illumination: 0.1Lux@F1.6 (colorful), 0.01Lux@F1.6 (black and white)
Shutter		1/30s ~ 1/10000s
White Balance		Auto, Indoor, Outdoor, Manual
Backlight Compensation		Support
Digital Noise Reduction		2D&3D digital noise reduction
SNR		≥52dB
Horizontal / Vertical Field of View and Focal Length		12× Zoom: Horizontal: 70.5° (Wide) – 5.9° (Tele); Vertical: 40.2° (Wide) – 3.5° (Tele); Focal Length: 4mm – 48mm 20× Zoom: Horizontal: 58° (Wide) – 2.9° (Tele); Vertical: 32.4° (Wide) – 1.7° (Tele); Focal Length: 5.5mm – 110mm
Horizontal Rotation Angle		±170º
Vertical Rotation Angle		-30° ~ +90°
Horizontal Rotation Speed		1 º/s ~ 100 º/s
Vertical Rotation Speed		1 º/s ~ 60 º/s
Horizontal & Vertical Flip		Support
Number of Preset Positions		255
Precision of Preset Positions		±0.1°
Input & Output Interfaces		
HD Video Output	HDMI	Support up to 1080P60
	3G-SDI	Support 1080P60/50/30/25, 720P60/50 and other high-definition video formats
	USB3.0	Support up to 1080P60
	Network Interface	Encoding: H.265/H.264; Network Protocols: IPv4, TCP, UDP, HTTP, NTP, DNS, DHCP, ARP, RTSP, RTP, RTCP, RTMP, SRT, NDI (optional), ONVIF, VISCA over IP
Communication Interface		1 channel, RS-232 IN, maximum distance: 30m, VISCA/Pelco-D/Pelco-P protocols 1 channel, RS-422, maximum distance: 1200m, VISCA/Pelco-D/Pelco-P protocols
Power Connector		JEITA type (DC IN 12V) HEC3800
General Specifications		

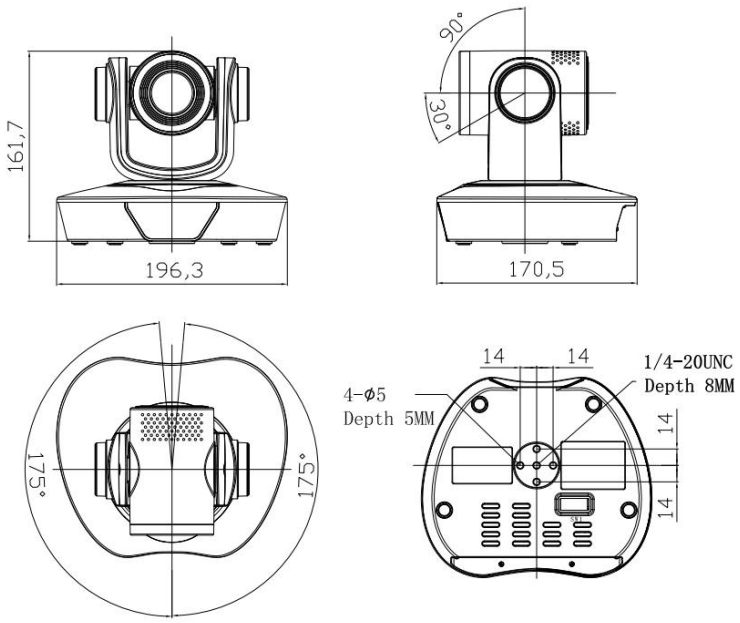
Input Voltage	AC110V-AC220V to DC12V/1.5A
Input Current	DC12V(DC11.5-DC12.5V)
Working Temperature	0℃~+45℃
Storage Temperature	-10℃~+60℃
Power Consumption	12W (Maximum)
Product Dimensions	Refer to “Installation Dimension Drawing”
Package Dimensions	355mmX270mmX255mm
Weight (Net Weight)	2KG (1.2KG)

Front / Rear Panel



1. Lens
2. Camera Body
3. Remote Control Receiver, Power Indicator
4. Mounting Hole
5. Fixing Holes
6. SDI Interface
7. HDMI Interface
8. LINE IN Interface
9. Network Interface
10. USB3.0 Interface
11. USB2.0 Interface (Reserved)
12. RS232/RS485 Interface
13. DC12V Interface

Installation Dimension Drawing



Remote Control Description

a. Standby Button

Press and hold the button, and then the device enters standby mode. Press and hold the button again, and then the device performs self-test and returns to HOME. If the preset 0 is set, the PTZ will move to the position of the preset 0.

b. Device Selection

Select the address number of the device you wish to control.

c. Number Keys

Set or recall preset positions 0-9.

d. 4. * Button and # Button

e. Focus Control Buttons: Adjust focus.

[Auto Focus]: Enter auto focus mode.

[Manual Focus]: Switch the device focus mode to manual; adjust the focus by pressing [Focus+] or [Focus-].

f. Zoom Control Buttons

[Zoom +]: Zoom in (narrow the angle); [Zoom -]: Zoom out (Widen the angle).

g. Set and Clear Preset Buttons

Set Preset: Save a preset point. Press Set Preset +Number buttons (0-9) to set the preset point of the corresponding number button.

Clear Preset: Clear a preset point. Press Clear Preset + Number buttons (0-9) to clear the preset point of the corresponding number button.

h. PTZ Control Buttons

Up/Down/Left/Right Arrows: Control the PTZ to turn up, down, left or right.

[HOME] button: Return the PTZ to the center position or enter the next level menu.

i. Backlight Compensation Control Button

Backlight On/Off: Turn on/off the backlight.

j. Menu button: Enter/Exit the OSD menu or return to the previous menu.

k. Device Infrared Remote Control Address Setup

[*]+[#]+[F1]: Address #1; [*]+[#]+[F2]: Address #2.

[*]+[#]+[F3]: Address #3; [*]+[#]+[F4]: Address #4.

l. Combination Buttons on the Remote Control

1) [#]+[#]+[#]: Clear all preset points.	2) [*]+[#]+[6]: Restore factory defaults.
3) [*]+[#]+[9]: Switch between forward and reverse mounting.	4) [*]+[#]+[7]: Switch between left and right mirroring.
5) [#]+[#]+[0]: Switch video format to 1080P60.	6) [#]+[#]+[1]: Switch video format to 1080P50.
9) [#]+[#]+[4]: Switch video format to 720P60.	10) [#]+[#]+[5]: Switch video format to 720P50.
11) [#]+[#]+[6]: Switch video format to 1080P30.	12) [#]+[#]+[7]: Switch video format to 1080P25.
13）[#]+[*]+[4]: Enable AI tracking.	14）[#]+[*]+[3]: Disable AI tracking.
15) [#]+[*]+[6]: Start recording.	16) [#]+[*]+[5]: Stop recording.
17) [PRESET_SET]+[*]+[1]: Start preset cruise 1.	18) [PRESET_SET]+[*]+[2]: Start preset cruise 2.
19) [PRESET_SET]+[*]+[0]: Stop preset cruise 1.	