

## HCS-9316UHD 4K Ultra HD Videoconference Camera



### Features

- **4K Ultra HD Output:**  
Using a new generation of SONY 1/1.8-inch high-quality CMOS, it can achieve maximum 4K60 ultra-high-definition resolution broadcast and image output, and record larger scenes.
- **25X Optical Zoom Lens:**  
Equipped with a 25x ultra-high-definition optical lens and supporting the mainstream horizontal viewing angle of 59.2°, it can meet the needs of more scenes such as video conferencing in large auditoriums and blackboard writing in lecture theaters to restore true details.
- **USB3.0+HDMI+IP+SDI Full interfaces, Rich Application Scenarios:**  
Compatible with all current mainstream video output interfaces, HDMI+USB3.0+IP can output 4K60 resolution at the same time.
- **Low Light:**  
The new ultra-high signal-to-noise ratio CMOS image sensor can effectively reduce image noise under low-light conditions. At the same time, 2D & 3D digital noise reduction is applied to significantly reduce image noise. Even under ultra-low light conditions, the image can still be kept clean and clear, and the image signal-to-noise ratio is higher than 50dB.
- **Infrared Remote Control Signal Transparent Transmission Function:**  
In addition to receiving its own infrared remote control signals, it can also receive signals from user's infrared remote control and send them to the video conferencing terminal through the VISCA port.
- **Multiple Video Compression Standards:**  
Different interfaces support multiple video compression formats such as YUY2, H.265, MJPG, and H.264.
- **Multiple Network Protocols**  
Supports ONVIF, SRT, RTSP, RTMP, NDI@|HX and other network protocols.
- **Multiple Control Protocols**  
Supports VISCA (including VISCA Over IP), PELCO P/D protocols, and automatically identifies protocols.
- **AI Intelligence**  
After the upgrade, it supports AI automatic tracking and automatic framing functions.

HCS-9316UHD camera for enterprise, education and conferencing applications with 25x optical zoom and a high frame rate of 60FPS. Users get 4K Ultra HD video by connecting to HDMI cables and coaxial video cables. The advanced servo control algorithm enables accurate positioning, smooth and quiet PTZ control. The wide angle lens of the camera can easily cover everyone in the room during video conferencing. It supports 255 preset positions. SONY's new generation sensitive CMOS image sensor ensures exquisite 4K Ultra HD images and high horizontal resolution. High frame rate operation of up to 60FPS ensures natural and clear picture quality, even for the moving object. It also provides HD-SDI and HDMI interfaces that can output 60FPS frame rate, and can automatically receive VISCA commands and PELCO-P/D protocol commands. You can choose to use RS232 or RS485 interface for connection.

### Technical Specifications

#### Image Parameters

|                         |  |
|-------------------------|--|
| Image Sensor            | SONY 1/2.8" CMOS   |
| Pixels                  | 8.50 Megapixels, 8.29 Effective Megapixels   |
| Resolution              | HDMI: 4K60/59.94/50/30/29.97/25,<br>1080p60/59.94/50/30/29.97/25, 720p60/50<br>3G-SDI: 1080p60/59.94/50/30/29.97/25, 1080i60/59.94/50, 720p60/50 |
| Scan Mode               | Line by line   |
| Lens                    | 25X Optical Zoom, f=7.1(W)~171.95mm(T)   |
| Horizontal View Angle   | 59.2°(W)~2.5°(T)   |
| Vertical View Angle     | 34.6(W)~1.4(T)   |
| Iris                    | F1.61~F5.19  |
| Focus System            | Auto, Manual   |
| Shutter Speed           | 1/50s ~ 1/10000s   |
| Minimum Illumination    | 0.1Lux   |
| Exposure                | Auto, Manual, Iris Priority,<br>Shutter Priority, Brightness priority  |
| White Balance           | Auto, Indoor, Outdoor, Keying, Auto Tracking   |
| Backlight Compensation  | Support  |
| Digital Noise Reduction | 2D&3D Digital noise reduction  |
| S/N Ratio               | ≥50dB  |

#### Pan/Tilt

|                  |  |
|------------------|--|
| Pan Angle        | -171°~+171°  |
| Tilt Angle       | -30°~+90°  |
| Pan Speed        | 0.1°/S~120°/S  |
| Tilt Speed       | 0.1°/S~120°/S  |
| Preset Positions | 9 preset positions by IR remote controller,<br>200 preset positions by joystick controller or PC |
| Preset Accuracy  | 0.1°±10%   |
| Flip             | Support  |
| Image Freeze     | Support  |
| POE+             | Support, 802.3at   |

#### USB

|                   |  |
|-------------------|--|
| Protocol          | UVC 1.1, UAC1.0                          |
| Operating System  | Window7 and above, MacOS, Linux, Android |
| Video Compression | YUY2, MJPEG                              |

Resolution.....  
 MJPEG: 3840\*2160, 2560\*1440, 1920\*1080,1280\*720,  
 960\*540, 800\*600, 720\*576, 720\*480,  
 640\*480, 640\*360, 352\*288, 320\*240  
 YUY2: 1920\*1080, 1280\*720, 960\*540, 800\*600, 720\*576,  
 720\*480, 640\*480, 640\*360, 352\*288, 320\*240  
 Frame Rate.....Max.60  
 UVC Control.....Support

**LAN**

Protocol.....TCP/IP, HTTP, RTSP, RTMP, RTMPS, SRT,  
 Onvif, DHCP, VISCA Over IP, NDI@HX2 (Optional)  
 Video Compression.....H.264, H.265  
 Code Stream.....Main code stream\*1, Sub code stream\*1  
 Main Stream Resolution.....3840\*2160, 1920\*1080, 1280\*720  
 Sub Stream Resolution.....640\*480, 640\*360, 352\*288,  
 320\*240, 176\*144  
 Bitrate Control.....VBR, CBR

**Audio**

Audio Compression.....AAC  
 Sampling Rate.....48K, 44.1K

**Interface**

HDMI Interface.....HDMI: Version 2.0  
 SDI Interface.....3G-SDI  
 USB Interface.....USB3.0, Type-B Socket  
 Network Interface.....RJ45: 1000M adaptive Ethernet port  
 Audio Interface.....Line In, 3.5mm  
 Serial Interface.....  
 RS232 IN/Out: 8-Pin Mini Din, up to 30 meters,  
 VISCA/Pelco-D/Pelco-P Protocol.  
 RS422/485: 9-Core Phoenix Interface, up to 1200 meters,  
 VISCA/Pelco-D/Pelco-P Protocol.  
 Power Interface.....IEC 60130-10 Type A

**General Specifications**

Tally Light.....Support  
 Input Voltage.....DC 12V  
 Input Current.....Max.1.3A  
 Power Consumption.....Max.9.5W  
 Operating Temperature.....0~40℃  
 Storage Temperature.....-10~60℃  
 Color.....Black, White (Optional)  
 Dimension (h x w x d).....208 x 158 x 193mm  
 Weight.....2.0kg

**Ordering Information**

HCS-9316UHD.....4K Ultra HD Videoconference Camera  
 (4K 60P high quality output, with remote control, black)