

VHD

VHD-VX60CL

# 4K Ultra HD Video Conference Camera



- Using a new generation of SONY 1 / 1.8-inch high-quality UHD CMOS sensor with a maximum size of 8.24 million pixels, it can achieve 4K (3840x2160) ultra-high-resolution high-quality images. And backward compatible with 1080P, 720P and other resolutions.
- Adopt high-quality ultra-high-resolution 4K ultra-telephoto lens, 20x optical zoom, and the maximum field of view exceeds 60°.

## Main Features

### 4K Ultra HD

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### 20x optical zoom

Adopt high-quality ultra-high-resolution 4K ultra-telephoto lens, 20x optical zoom, and the maximum field of view exceeds 60°.



### Low-power sleep function

Support low-power sleep / wake, power consumption is less than 400mW in sleep state.



### Rich and perfect interfaces

Support HDMI2.0 high-definition output, and equipped with 3G-SDI interface, the effective transmission distance is up to 150 meters (1080p30). HDMI, 3G-SDI, USB3.0, LAN can output 4 HD digital signals at the same time.



### HDMI2.0

Supports HDMI 2.0 specifications, and can directly output 4K uncompressed digital video.



Support export to external HDD via USB.



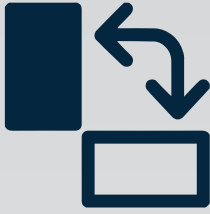
### Remote control

Multiple control methods, RS232, RS485, network and USB can be used to control the camera.



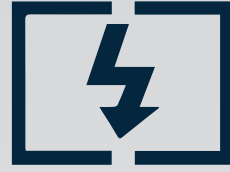
## Built-in gravity sensor

Support automatic image flip function, convenient for engineering installation.

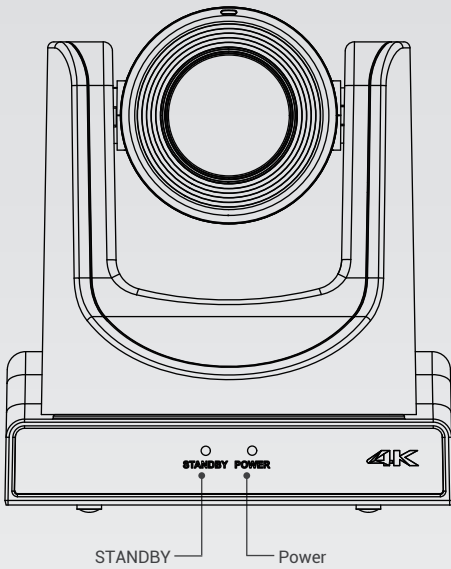


## Intelligent exposure

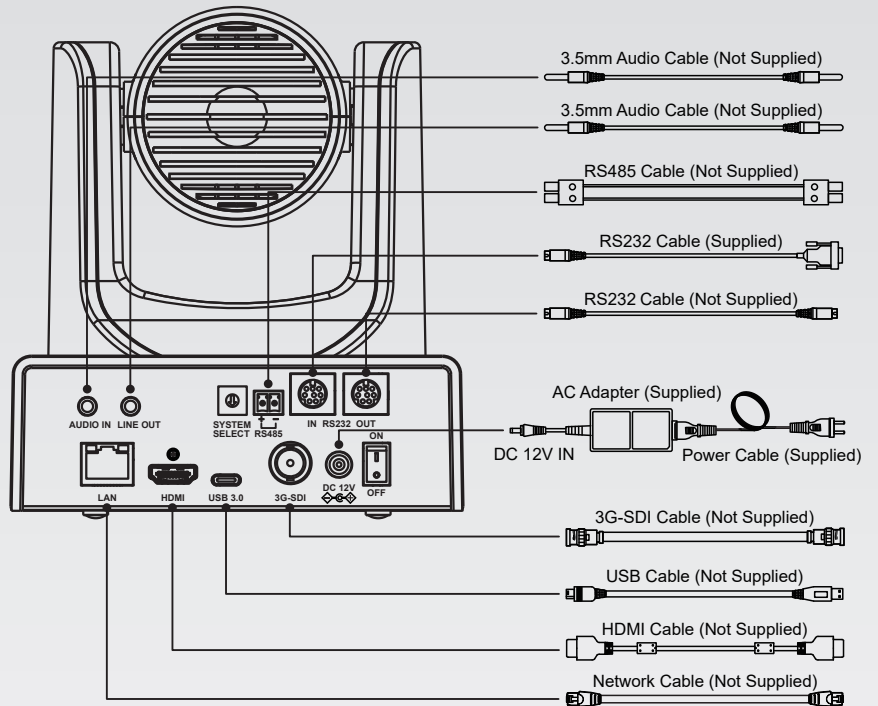
Effectively solve the impact of projection, television and other equipment on shooting people.



## Product Interface



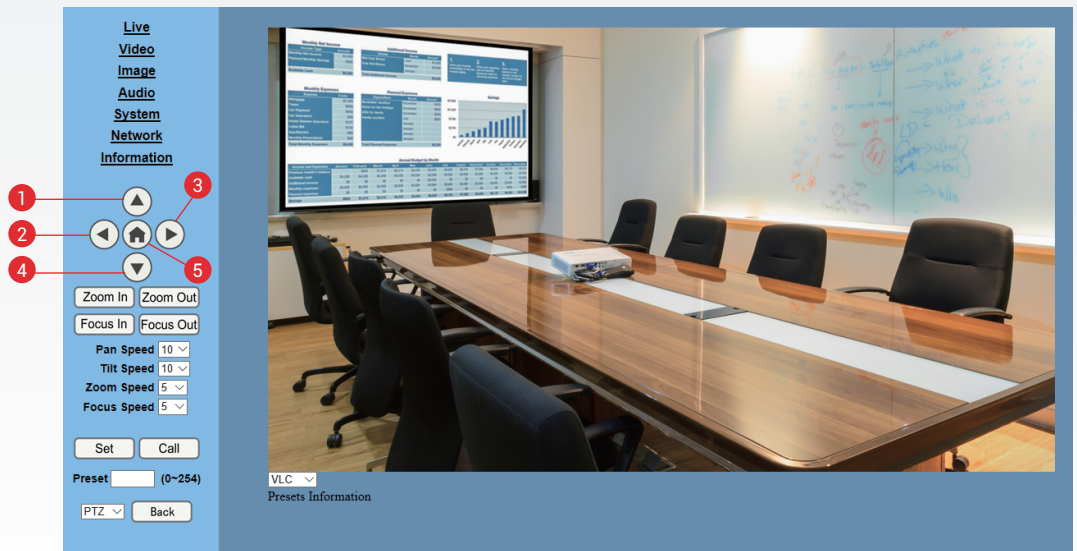
Front View



Back View

## On-Screen Graphical User Interface

- 1 UP
- 2 LEFT
- 3 RIGHT
- 4 DOWN
- 5 HOME



# Specifications

Model Name	VHD-VX60CL 4K Ultra HD Video Conference Camera
<b>Main Features</b>	
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HDMI2.0	Supports HDMI 2.0 specifications, and can directly output 4K uncompressed digital video.
Low-power sleep function	Support low-power sleep / wake, power consumption is less than 400mW in sleep state.
Support export to external HDD via USB.	
Rich and perfect interfaces	Support HDMI2.0 high-definition output, and equipped with 3G-SDI interface, the effective transmission distance is up to 150 meters (1080p30). HDMI, 3G-SDI, USB3.0, LAN can output 4 HD digital signals at the same time.
Remote Control	Multiple control methods, RS232, RS485, network and USB can be used to control the camera.
Built-in gravity sensor	Support automatic image flip function, convenient for engineering installation.
Intelligent exposure	Effectively solve the impact of projection, television and other equipment on shooting people
<b>Camera</b>	
Video System	4K@60fps, 4K@50fps,4K@30fps, 4K@25fps,4K@59.94fps,4K@29.97fps, 1080P@60fps, 1080P@50fps, 1080I@60fps,1080I@50fp, 1080P@30fps,1080P@59.94fps, 1080I@59.94fps, 1080P@29.97fps, 720P@60fps,720P@59.94fps
Sensor	1/1.8", CMOS, Max Effective Pixel: 8.42M
Scanning Mode	Progressive
Lens	20x, f = 6.25mm ~ 125mm, F1.58 ~ F3.95
Digital Zoom	16x
Minimal Illumination	0.5Lux @ (F1.8, AGC ON)
Shutter	1/30s ~ 1/10000s
Vertical Angle of View	Auto, Indoor, Outdoor, One Push, Manual, Specified color temperature.
Backlight Compensation	Support
Digital Noise Reduction	2D&3D Digital Noise Reduction
Video S/N	≥55dB
Horizontal Angle of View	60° ~ 3.5°
Vertical Angle of View	35.7° ~ 2.0°
Horizontal Rotation Range	±170°
Vertical Rotation Range	-30° ~ +90°
Pan Speed Range	1.7° ~ 100°/s
Tilt Speed Range	1.7° ~ 69.9°/s
H & V Flip	Support
Image Freeze	Support
PoE	Support(opional)
Number of Preset	255
Preset Accuracy	0.1°

<b>USB Featured</b>	
Operate System	Windows 7, Windows 8, Windows 10, Mac OS X, Linux, Android.
Color System / Compression	YUV 4:2:2 / H.264 / MJPEG
Video Format	YUY2 : max to 1080P@30fps H.264 AVC: max to 2160P@60fps H.264 SVC: max to 2160P@60fps MJPEG: max to 2160P@60fps
Audio on USB	Support
USB Video Communication Protocol	UVC 1.1~1.5
UVC PTZ	Support
<b>Network Features</b>	
Video Compression	H.265 / H.264 / MJPEG
Video Stream	Main Stream, Sub Stream
Main Stream Resolution	3840x2160, 1920x1080, 1280x720, 1024x576, etc.
Sub Stream Resolution	1920x1080, 1280x720, 720x576, 720x480, 320x240, etc.
Video Bit Rate	32Kbps ~ 102400Kbps
Bit Rate Type	Variable Rate, Fixed Rate
Frame Rate	50Hz: 1fps ~ 50fps, 60Hz: 1fps ~ 60fps
Audio Compression	AAC, G711
Audio Bit Rate	48Kbps, 64Kbps, 96Kbps, 128Kbps
Support protocols	TCP/IP, HTTP, RTSP, RTMP, Onvif, DHCP, Multicast, etc.
<b>Input/Output Interface</b>	
HD Output	1xHDMI: Version 2.0 1x3G-SDI: BNC type, 800mVp-p, 75Ω, Along to SMPTE 424M standard
Network Interface	-1xRJ45: 10M/100M/1000M Ethernet Interface
Audio Interface	1-ch: 3.5mm Audio Interface, Line In/Mic In
USB	1xUSB3.0: Up to 4K@60fps compressed video and 1080P original video can be output.
Communication Interface	1xRS232 In: 8pin Min DIN, Max Distance: 30m, Protocol: VISCA/Pelco-D/Pelco-P 1xRS232 Out: 8pin Min DIN, Max Distance: 30m, Protocol: VISCA network use only 1xRS485: 2pin Phoenix Port, Max Distance: 1200m, Protocol: VISCA/Pelco-D/Pelco-P
Power Jack	JEITA type (DC IN 12V)
<b>Generic Specification</b>	
Input Voltage	DC 12V
Current Consumption	1.0A (Max)
Operating Temperature	-10°C ~ 40°C (14°F ~ 104°F)
Storage Temperature	-40°C ~ 60°C (-40°F ~ 140°F)
Power Consumption	12W (Max)
Size	169mm x 142mm x 164mm
Net Weight	1.35Kg (3.0lb)



ValueHD Corporation/www.valuehd.com.cn  
Address: No. 2, Honghui Industrial Park ,Xin'an Street ,Bao'an District, Shenzhen, China, 518133