hameco HV-51 series HD Video Conference Camera

Full HD, Wide View Angle, Multi-protocols, Multiple Video Interfaces

The HV-51 series camera offers perfect functions, superior performance and rich interfaces. The features include advanced ISP processing algorithms to provide vivid images with a strong sense of depth, high resolution, and fantastic color rendition. It supports H.264/H.265 encoding which makes motion video fluent and clear even under less than ideal bandwidth conditions.



Superb High-definition Image

HV-51 employs **1/2.8 inch** high quality CMOS sensor. Resolution is up to 1920x1080 with frame rate up to 60fps.

Multiple Lens

5X/10X/12X/20X/30X optical zoom, with wide viewing angle of 83.7 ° free distortion.

Trinity image auto focus technology

With image intelligent processing, provide auto white balance (AWB), auto exposure (AE), auto focus (AF) functions, fully automatically adapt to the environment, achieve the best image effect, and achieve the perfect Trinity image auto adjustment.

Multiple Video Output Interfaces

Supports HDMI, SDI, USB, LAN (5GWiFi and POE for option). SDI supports 100m transmission in 1080p60 format.

Leading Auto Focus Technology

Leading auto focus algorithm makes lens a fast, accurate and stable auto-focusing.

Low Noise and High SNR

audio coding.

Low Noise CMOS effectively ensure high SNR of camera video. Advanced 2D/3D noise reduction technology is also used to further reduce the noise, while ensuring image sharpness.

Audio Input Interface (for future development) Support 8000, 16000, 32000, 44100, 48000 sampling frequency and AAC, MP3, G.711A

Wide-range, Quiet and Quick Pan/Tilt

Mechanism

By adopting step driving motor mechanism, HV-51 camera works extremely quiet and moves smoothly.

Multiple Audio/Video Compression

Support H.264/H.265 video compression; AAC, MP3 and G.711A audio compression; Support compression of resolution up to 1920x1080 with frame up to 60fps.

Radio frequency

with 4x4 MIMO and beamforming technology, up to 300mbps transmission rate, with strong penetration and long transmission distance; with 4 external antennas, the transmission effect is better

Multiple Network Protocol

Support ONVIF, RTSP, RTMP, GB/T28181, NDI protocols and support RTMP push mode, easy to link streaming media server (Wowza,FMS).

Supports RTP multicast mode and visca control protocol of network full command.

Control interfaces: RS485, RS232.

RS232 support Cascade, good for installation.

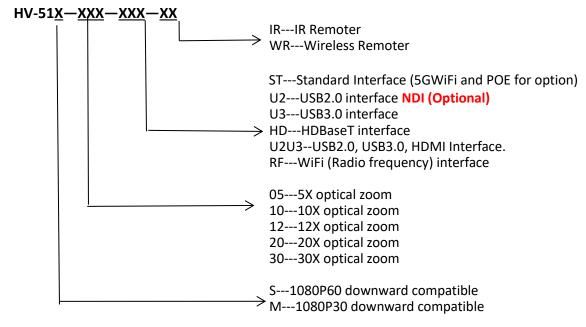
Wide Application

Tele-education, Lecture Capture, Webcasting, Videoconferencing, Tele-training, Tele-medicine, Interrogation and Emergency command systems.

Low-power Sleep Function

Support low-power sleep/wake up, the consumption is lower than 400mW under sleep mode.

Order No.



Model	HV-51-05	HV-51-10	HV-51-12	HV-51-20	HV-51-30		
Camera Parameter							
Optical Zoom	5X	10X	12X	20X	30X		
	f=3.1~15.5mm	f=4.7~47mm	f=3.9~46.8mm	f=5.5~110mm	f=4.3~129mm		
Sensor	1/2.8 inch high quality HD CMOS sensor						
Effective Pixels	16: 9, 2.07 megapixel						
Video Format	HDMI/SDI/HDBaseT video format						
	1080P60/50/30/25/59.94/29.97; 1080I60/50/59.94; 720P60/50/30/25/59.94/29.97						
	USB3.0 interface video format						
	1) U3: 1920X1080P60/50/30/25; 1280X720P30/25/15/10; 960X540P30; 640X360P30						
	2) U3 compatible with U2: 960X540P30; 640X360P30; 1280X720P10/15; 720X576P30;						
	720X480P30						
	USB3.0 is compatible with USB2.0						
	960×540P30; 640×360P30; 1280×720P10/15;						
	720×576P50; 720×480P60; 640×480P30; 352×288P30;						
	800×600P30; USB2.0 interface video format:						
	176x144/320x240/320x180/352x288/640x480/720x480/720x576/640x360						
	800X600/960X540/1024X576/1024X768/1280X720/1920X1080 P30/25/20/15/10/5						
View Angle	20°(tele)	6.43°(tele)	6.3°(tele)	3.3°(tele)	2.34°(tele)		
	83.7°(wide)	60.9°(wide)	72.5°(wide)	54.7°(wide)	65.1°(wide)		
AV	F1.8 – F2.8	F1.6 – F3.0	F1.8 – F2.4	F1.6 – F3.5	F1.6- F4.7		
Digital Zoom	10X						
Minimum	0.1Lux						
Illumination							
DNR	2D & 3D DNR						
White Balance	Auto / Manual/ One Push/ 3000K/ 4000K/5000K/6500K						
Focus	Auto/Manual/One key focus						
Aperture/Electro	Auto/Manual						
nic Shutter							

BLC	ON/OF	/OFF			
WDR	OFF/ Dynamic level adjustment				
Video	Brightness, Color, Saturation, Contrast, Sharpness, B/W mode, Gamma curve				
Adjustment	28	Eligitiless, color, sucuration, contrast, sharphess, b) w mode, damina curve			
SNR	>55dB	>55dB			
Input/Output Inte					
		HV-51-ST Model: SDI, HDMI, LAN, RS232 (In & Out), RS485, A-IN (5G-WIFI and POE, NDI			
		for option)			
		HV-51-U2 Model: USB2.0, LAN, RS232 (In & Out), A-IN			
		HV-51-U3 Model: USB3.0, LAN, RS232 (In & Out), A-IN			
Video Interfaces		HV-51-HD Model: HDBaseT (POE), LAN, A-IN, RS232 (In)			
		HV-51-HM Model: HDMI, LAN, RS232 (In)			
		HV-51-U2U3 Model: USB2.0, USB3.0, HDMI, LAN, RS232 (In)			
		HV-51-RF Model: WiFi(Radio frequency), LAN			
Video output interface		HDMI, SDI, LAN, USB3.0, USB2.0			
Video Compression		Wasa Wasa B. J.			
Format		H.264, H.265, Dual stream output			
Control Protocol		VISCA/Pelco-D/Pelco-P;Baud Rate:115200/9600/4800/2400bps			
Audio Input Interfa	ace	A-IN: Double track 3.5mm linear input;			
Audio Compression	n				
Format		AAC/MP3/G.711A Audio compression			
HD IP Interface		100M IP Port(10/100BASE-TX); Support VISCA protocol control through IP port.			
Network Protocol		RTSP, RTMP, ONVIF, GB/T28181, NDI(Optional)			
Power Interface		HEC3800 Outlet (DC12V)			
		2pin waterproof aviation head power socket (RF model)			
Supply Adapter		AC110V-AC220V to DC12V/1.5A			
Input Voltage		DC12V±10%			
Input current		1A (Max)			
Consumption		12W (Max)			
Radio frequency p	aramete	rs (RF Model)			
Operating frequency					
range		5.1—5.9 (GHz)			
		17dBm			
0.1		40MHz			
Modulation mode		OFDM			
Transmission dista	nce	\leq 300m (outdoor space is open and unblocked), \leq 150m (indoor space is unblocked)			
Transmission data	nsmission data rate Maximum 300mbps (determined by transmission distance and				
Anti interference n	node	Manual / automatic channel mode selection			
PTZ Parameter					
Pan/TiltRotation					
Pan Control Speed					
Tilt Control Speed		0.1-30°/sec			
Preset Speed	·				
		255 presets (10 presets by remote controller)			
Other Parameter					
	prage temperature -10°C \sim +60 $^{\circ}\text{C}$				
storage temperatu					

Storage humidity	20%~95%			
Working temperature	-10℃~+50℃			
Working humidity	20%~80%			
Dimension	150mmX150mmX167.5mm			
	150mm×150mm×180mm (RF Model)			
Weight	1.4KG			
Remote Operation (IP)	Remote Upgrade, Reboot and Reset			
Accessories				
Accessories (with camera)	12V/1.5A power supply, RS232 cable, USB3.0 cable (model U3), USB2.0 cable (model U2),			
	remote control, manual, warranty card			
Optional accessories	Wall mount			

Interface Diagram:



HV-51-ST



HV-51-U2



HV-51-U2U3



HV-51-U3





HV-51-HDBASET

HV-51-5G WIFI

Dimension(mm):

