HC-84K

DESCRIPTION:

Heinrich's HC-84K is a high-performance camera equipped with a SONY 1/1.8-inch, 8.42 MP UHD CMOS sensor, delivering exceptional image quality. It supports 4K60 resolution and is compatible with various formats like 1080P and 720P. With a 60° horizontal field of view and 20x optical zoom (expandable to 16x digital zoom), the HC-84K captures wide-angle and zoomed-in shots with precision.

The camera incorporates a built-in monocular human tracking algorithm for automated tracking, ensuring subjects remain in focus. Its advanced noise reduction technology effectively minimizes image noise, even in low-light conditions, resulting in clean and clear visuals with a signal-to-noise ratio exceeding 55dB.

The HC-84K offers versatile connectivity options, including HDMI2.0, 3G-SDI, LAN, and USB interfaces. The 3G-SDI interface allows for reliable transmission over distances of up to 150 meters (1080p30). For simultaneous output, the camera can deliver three channels of high-definition digital signals.

FEATURES:

- It uses a SONY 1/1.8-inch, 8.42 MP high-quality UHD CMOS sensor, supports 4K60 images, and is backward compatible with multiple resolutions such as 1080P and 720P.
- The horizontal field of view supports 60°, the optical zoom supports 20 times, and it supports 16 times digital zoom.
- The camera has a built-in monocular human tracking algorithm, which can realize an automatic tracking function.
- The new CMOS image sensor with an ultra-high signal-to-noise ratio can effectively reduce image noise in low-light conditions.
- The application of 2D and 3D noise reduction algorithms can significantly reduce image noise. Even in ultra-low-light conditions, the picture remains clean and clear, and the image signal-to-noise ratio is as high as 55dB.
- It has an HDMI 2.0 high-definition output interface and a 3G-SDI interface. The effective transmission distance of the 3G-SDI interface is up to 150 meters (1080p30). HDMI, LAN, USB or 3G-SDI, USB, LAN can output 3-channel high-definition digital signals at the same time.
- Supports multiple control methods, and you can use RS232, RS485, network and USB to control the camera.
- Supports automatic image flipping function, which is convenient for engineering installation and use.

SPECIFICATION:

Model	HC-84K
Resolution	HDMI 4K@60fps, K@59.94fps, 4K@50fps, 4K@30fps, 4K@25fps, 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; 3G-SDI : 1080p/60, 1080p/50, 1080p/30, 1080p/29.97, 1080p/59.94, 1080p/25, 1080i/60, 1080i/50, 1080i/59.94fps ; 720p/60, 720p/59.94
Sensor	1/1.8 inches , CMOS , effective 8.42 MP
Scanning method	line-by-line scan
Lenses	20 ×, f = 6.25mm ~125mm , F1.58 ~F3.95
Digital zoom	16 ×
Minimum illumination	0.5Lu × @ (F1.8 , AGC ON)
Shutter	1/30s ~1/10000s
White balance	Auto , Indoor, Outdoor, One-touch, Manual, Specified color temperature
BLC	Support
Digital noise reduction	3D Digital Noise Reduction
Signal-to-Noise Ratio	≥55dB
Horizontal field of view	60°~3.5°
Vertical field of view	35.7°~2.0°
Horizontal rotation range	±170°
Vertical rotation range	-30°~+90°
Horizontal rotation Speed range	1.7°~100°/s
Vertical rotation speed range	1.7°~69.9°/s
Horizontal and vertical flip	Support
Image freeze	Support
PoE power supply	Support
Number of preset positions	255
Accuracy of preset position	0.1°
USB	Support USB2.0 format

Supported operating Systems	Windows 7 , Windows 8 , Windows 10 , Windows 11 , Mac OS X , Linux , Android
Color space/compression	YUY2/H.264/MJPEG/H.265
Video format	YUY2: Maximum 1080P@5fps; H.264 AVC: Maximum 2160P@30fps; H.265 HEVC: Maximum 2160P@30fps; MJPEG: Maximum 2160P@30fps
USB audio	Support
USB video communication protocol	UVC 1.1~1.5
UVC PTZ Control	Support
Video coding standards	H.265/H.264/MJPEG
Video stream	First stream, second stream
First stream resolution	3840 × 2160 , 1920 × 1080 , 1280 × 720 , 1024 × 576, etc.
Second stream resolution	720 × 480 , 320 × 240, etc.
Video bit rate	32kbps~51200kbps (second channel 32kbps~20480kbps)
Bit rate control Frequency	Variable bitrate, fixed bitrate 50Hz:1fps~50fps , 60Hz:1fps~60fps
Audio compression standards	AAC
Audio bitrate	96Kbps , 128Kbps
Supporting agreement	NDI®|H × 2 , SRT , TCP/IP , HTTP , RTSP , RTMP(s) , Onvif , DHCP , multicast, etc
HDMI high-definition output	1-channel HDMI 2.0 , video format ;4K@25/30/50/60/59.94/29.97fps ; 1080P@25/30/50/60/59.94/29.97fps; 1080I@50/60/59.94/29.97fps; 720P@50/60/59.94fps
SDI HD output	1-channel 3G-SDI: BNC type , 800mVp-p , 75Ω , compliant with SMPTE 424M standard; video formats: 1080P@25/30/50/60/59.94/29.97fps ; 1080I@50/60/59.94fps ; 720P@50/60fps
Network interface	1-channel RJ45: 10M/100M/1000M adaptive Ethernet
Audio port	1-channel Line In , 3.5mm audio interface; 1-channel Line Out , 3.5mm audio interface
USB interface	1-channel USB2.0 , Type-A (configurable as Host or Device by software)
Communication interface	1-channel RS232 In: 8-pin mini DIN , maximum distance 30 meters , VISCA/Pelco-D/Pelco-P protocol; 1-channel RS232 Out: 8-pin mini DIN , maximum distance 30 meters , VISCA protocol for networking; 1-channel RS485: 2-core Phoenix port , maximum distance: 1200 meters , VISCA/Pelco-D/Pelco-P protocol

RESTORE button	Support
Power interface	JEITA type (DC IN 12V)
Installation direction	Supports upright and inverted installation
TALLY lamp	1 (red and green)
Power indicator	1 (blue)
Status indicator	1 (yellow)
IR remote control input	Support
Dial	Support
Input voltage	DC 12V /POE+
Input current	Maximum current 2A
Operating temperature	0°C ~40°C
Stored temperature	-40°C ~60°C
Power consumption	18W
Size	169mm × 142mm × 175mm
Net weight	1.5 kg