



Professional Audio Video Manufacturer

VIS-CDC-20-4K
4K Intelligent Tracking Camera
Datasheet V1.1



VISSONIC ELECTRONICS LIMITED

1.Key Features

- ◆ Adopts a 1/1.8-inch, 8.42-megapixel high-quality UHD CMOS sensor
- ◆ Equipped with a 4K telephoto lens, supporting 20x optical zoom and a 60° wide-angle FOV
- ◆ Supports HDMI 1.4b and 3G-SDI for uncompressed video output
- ◆ Enables multiple control methods via RS232, RS485, CAT5, or USB, etc
- ◆ High-SNR CMOS with 3D noise reduction delivers clear images in low light, with 55dB SNR.
- ◆ Equipped with HDMI 1.4b and 3G-SDI (1080p30 up to 150m), enabling simultaneous HD output via HDMI/3G-SDI, USB, and LAN

2.Product Overview

The VIS-CDC-20-4K is a 4K intelligent tracking camera designed for medium to large conference rooms. It features a large UHD CMOS sensor that delivers clear 3840×2160 resolution, and a 20x optical zoom lens with AI human-shape tracking for precise, automatic target tracking anywhere in the venue, enhancing the video experience. Launched by VISSONIC, this device offers a professional, efficient video solution for intelligent conferences.

3.Features

- 1/1.8-inch 8.42-megapixel UHD CMOS sensor; 4K@60fps AI PTZ camera, backward compatible with 1080P/720P;
- High-quality 4K ultra HD telephoto lens, supporting 20x optical zoom and a 60° wide-angle horizontal field of view;
- Features intelligent exposure image processing technology to effectively mitigate light interference from projectors, TVs, etc., on the image;
- Multiple control methods available via RS232, RS485, CAT5, or USB, etc;
- Supports HDMI 1.4b and 3G-SDI for uncompressed video output;

- High SNR CMOS combined with 3D noise reduction ensures clear images under low light conditions, with an SNR of 55dB;
- Supports automatic image flip for wall or ceiling installation;
- Auto sleep mode under 400mW protects the device; features plug-and-play, low latency, and simultaneous audio, video, and control transmission;
- Supports local recording to a USB drive without the need for an NVR;
- Equipped with HDMI 1.4b and 3G-SDI (1080p30 up to 150m), supporting triple HD output via HDMI/3G-SDI, USB, and LAN;
- Supports NDI|HX2 protocol, enabling low-latency, high-quality, frame-accurate audio and video transmission, real-time detection, interactive control, and flexible IP broadcasting mode. (Optional feature)

4. Technical Specifications

Product Model	VIS-CDC-20-4K
Sensor	1/1.8-inch CMOS, Effective Pixels: 8.42 megapixels
Lens Focal Length	20x, f=6.25mm~125mm, F1.58~F3.95
Horizontal Field of View	60°~3.5°
Vertical Field of View	35.7°~2.0°
Camera	
Video Signal System	HDMI: 4KP60(3840×2160@60Hz),4KP59.97,4KP50,4KP30,4KP25, 4KP29.97,1080P60,1080P50,1080I60,1080I50,1080P30,1080P59.94, 1080I59.94,1080P29.97,720P60,720P59.94; 3G-SDI: 1080P60,1080P50,1080P30,1080P29.97,1080P59.94,1080P25; 1080I60,1080I50,1080I59.94;720P60,720P59.94
Scanning Mode	Progressive Scan
Digital Zoom	16x

Minimum Illumination	0.5Lux @ (F1.8, AGC ON)
Shutter	1/30s~1/10000s
White Balance	Auto, Indoor, Outdoor, One-Touch, Manual
Backlight Compensation	Supported
Digital Noise Reduction	3D Digital Noise Reduction
Signal-to-Noise Ratio (SNR)	≥55dB
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 & Vertical Flip	Supported
Image Freeze	Supported
POE + Power Supply	Supported
Number of Presets	255
Preset Accuracy	0.1°
USB Features	
Supported Operating Systems	Windows 7 (supports only UVC 1.1 features), Windows 8, Windows 10, Windows 11, Mac OS X, Linux version 2.4.6 or later, Android versions requiring UVC-related drivers

Color Space / Compression	YUY2/H.264/MJPEG/H.265
Video Standard	YUY2: Maximum 1080P50(USB2.0); H.264 AVC: Maximum 2160P60; H.264 SVC: Maximum 2160P60; H.264 SVC: Maximum 2160P30; MJPEG: Maximum 2160P30
USB Audio	Supported
USB Video Communication Protocol	UVC 1.1~1.5
UVC PTZ Control	Supported
Network Features	
Video Encoding Standard	H.265/H.264/MJPEG
Video Bitstream	Primary Bitstream, Secondary Bitstream
Primary Stream Resolution	3840×2160, 1920×1080, 1280×720, etc.
Secondary Stream Resolution	720×480, 320×240, etc.
Video Bitrate	Stream 1: 32kbps~51200kbps; Stream 2: 32kbps~20480kbps
Bitrate Control	Variable Bitrate, Constant Bitrate
Frame Rate	50Hz: 1fps~50fps; 60Hz: 1fps~60fps
Audio Compression Standard	AAC/G711A
Audio Bitrate	96kbps, 128kbps

Supported Protocols	NDI HX2(optional feature), SRT, TCP/IP, HTTP, RTSP, RTMP(S), ONVIF, DHCP, GB/T 28181, Multicast, etc.
I/O Interfaces	
HD Output	1 × HDMI: 1.4b; 1 × 3G-SDI: BNC type, 800mVp-p, 75 Ω, compliant with SMPTE 424M Standard
Network Interface	1 × RJ45: 10M/100M/1000M Adaptive Ethernet
Audio Interfaces	1 × Line In, 3.5mm audio interface; 1 × Line Out, 3.5mm audio interface
USB Interface	1 × USB 2.0, Type-A (configurable as Host or Device via software)
Communication Interfaces	1 × RS232 In: 8-pin mini DIN, maximum distance: 30 meters, VISCA/Pelco-D/Pelco-P protocols; 1 × RS232 Out: 8-pin mini DIN, maximum distance: 30 meters, for VISCA protocol networking; 1 × RS485: 2-pin Phoenix connector, maximum distance: 1200 meters, VISCA/Pelco-D/Pelco-P protocols
RESTORE Button	Supported
Power Interface	JEITA type (DC IN 12V)
General Specifications	
Input Voltage	DC 12V / PoE+ (802.3af)
Input Current	1.5A (Maximum)
Operating Temperature	0°C~40°C
Storage Temperature	-40°C~60°C
Power Consumption	13W (Maximum)
Dimensions	142mm (W) × 169mm (D) × 164mm (H)
Net Weight	1.6kg