VISSONIC

Professional Audio Video Manufacturer

VIS-CDC-12-4K
4K Intelligent Tracking Camera
Datasheet V1.1

VISSONIC ELECTRONICS LIMITED

Contents

1.Key Features

- Adopts a 1/2.5-inch, 8.51-megapixel high-quality UHD CMOS sensor
- Equipped with a 4K telephoto lens, supporting12x optical zoom and a 80.8° 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-12-4K 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 12x 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

- 1/2.5-inch 8.51-megapixel UHD CMOS sensor; 4K@60fps AI PTZ camera, backward compatible with 1080P/720P;
- High-quality 4K ultra HD telephoto lens, supporting 12x optical zoom and a 80.8° 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-12-4K
Sensor	1/2.5-inch CMOS, Effective Pixels: 8.51 megapixels
Lens Focal Length	12x, f=3.47mm~41.65mm, F1.84~F3.72
Horizontal Field of View	80.8°~7.5°
Vertical Field of View	49.9°~4.3°
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
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	AAC, G711A

Standard	
Audio Bitrate	96kbps, 128kbps
Supported Protocols	NDI|HX2(optional feature), HX2, 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, 75Ω, 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

About VISSONIC Electronics Limited

Our mission is to develop and manufacture the most comprehensive and innovative audio visual products for our clients. We provide the best performance/price ratio products because it could give you satisfaction just from the time you use them, we believe the good design with cutting edge technology on products will provide value to all our partners and end users. Listen to your demands, we fulfill it.

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