

FC731-4K Conference Camera Datasheet

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Overview

FC731-4K is a PTZ camera with up to 4K/30 image resolution, 12x optical zoom, and 71° horizontal field of view, providing ultra-high-definition pictures at any time. The camera supports auto tracking, you can easily control auto framing and human tracking through the remote control. Abundant interfaces to meet various output requirements, while supporting 3 power supply methods, is an ideal choice for small and medium-sized video conferencing.

- UHD 4K Video Quality at 30 Frames Per Second
- Capture a Wide Shot with a 71° Horizontal Field of View
- 12X Optical Zoom Offers Crisp, Sharp and Clearer Image
- Pan, Tilt, Zoom and Auto Tracking with Remote Control
- Autofocus Delivers Sharp, Detailed Visuals Every Time
- HDMI, USB and Network Interface for Various Demand
- Support DC, USB and PoE Power Supply
- Compatible with Microsoft Teams, Google Meet, ZOOM, etc



Key features

4K UHD

High-quality 1/2.5-inch UHD CMOS sensor with 8.42 million effective pixels for ultra-high resolution high-quality images up to 4K (3840x2160) and downward compatible with 1080P, 720P and other resolutions.

12x Optical Zoom + 71 ° Wide-angle Lens

Using high-quality ultra-high-resolution 4K ultra-highydefinition lens, the maximum horizontal field of view is up to 71° , while supporting classic 12x optical zoom.

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Electromechanical head

Built-in self-developed electromechanical head, the horizontal rotation range can reach ±170°, the rotation speed range is 2.7° ～ 35.7° /s; the vertical rotation range can reach -30° ～ 90°, and the rotation speed range is 2.7° ～ 31.5° /s.

HDMI 1.4b [1]

Support HDMI 1and can output uncompressed 4K original video.

IMultiple & Complete Interfaces

ISupport 1080P video output via HDMI [1], USB 3.0 and network interface simultaneously.

Remote Control

The camera can be controlled remotely through the RS232, RS485, network and USB port.

Low Illumination

The application of 2D and 3D noise reduction algorithm greatly reduces image noise. Even under the condition of ultra-low illumination, it still keeps the picture clean and clear, and the SNR of image is as high as 55dB.

H.264 Slice / H.264 SVC Supported

The H.264 standard supports Slice and SVC coding and is suitable for USB video conferencing

Dual Stream

Simultaneously support two streams output (YUY2, MJPEG, H.264 each of both) to reduce the host codec pressure.

PoE Support

The wired network supports PoE power supply, the control, power supply, video and audio can be completed with a network cable.

Two Power Supply Modes

Simultaneously support DC 12V power adaptor and PoE power supply. (This function is optional.)

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Specifications

Table 1 shows the technical specification for FS FC731-4K.

Table 1. Technical specification

Main Features	
Signal System	HDMI[1]：4K30P，4K29.97P, 4K25P,1080P30, 1080P29.29, 1080P25
Sensor	1/2.5 inches, CMOS, Effective Pixel: 8.42M
Scanning Mode	Progressive
Focal length	12x, f=4.4mm ~ 52.8mm, F1.8 ~ F2.6
Minimum Illumination	0.5 Lux @ (F1.8, AGC ON)
Shutter	1/30s ~ 1/10000s
White Balance	Auto, Indoor, Outdoor, One Push, Manual, VAR
Backlight Compensation	Support
Digital Noise Reduction	2D & 3D Digital Noise Reduction
SNR	≥ 55dB
Horizontal FOV	71° ~ 8.2°
Vertical FOV	42.7° ~ 4.5°
Pan Angle	±170°
Tilt Angle	-30° ~ +90°
Pan Speed	2.7° ~ 35.7° /s
Tilt Speed	2.7° ~ 31.5° /s
Image Flip	Support
Image Freeze	Support
Preset Position	255
Preset Accuracy	0.1°

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Interfaces	
USB Interface	1 x USB 3.0, Type-C
HDMI Output	Baseline Profile, Main Profile, High Profile
Network Interface	1 x RJ45: 10M / 100M adaptive Ethernet
Control Interface	1 x RS232 In: 8pin Min DIN, Max. Distance: 30m, Protocol: VISCA / Pelco-D / Pelco-P1 x RS485 In: 2pin phoenix port, Max. Distance: 1200m, Protocol: VISCA / Pelco-D / Pelco-P
Power Interface	JEITA (DC IN 12V) / USB Type-B（USB 5V）/ PoE
Network Features	
Video Compression	H.265 / H.264 / MJPEG
Video Stream	First Stream, Second Stream
First Stream Resolution	3840x2160, 1920x1080, 1280x720 etc.
Second Stream Resolution	1920x1080,1280x720,1024x576 etc.
Video Bit Rate	32Kbps ~ 6144Kbps
Bit Rate Control	VBR, CBR
Frame Rate	50Hz: 1fps ~ 25fps, 60Hz: 1fps ~ 30fps
Audio Compression	AAC
Audio Bit Rate	96Kbps, 128Kbps, 256Kbps
Protocols	TCP/IP, HTTP, RTSP, RTMP, Onvif, DHCP, Multicast, etc.
USB Features	
Operating System Supported	Windows 7 (only supports UVC1.1 features), Windows 8 and above version, MacOS 10.5 and above version, Linux 2.4.6 and above version, Android needs to include the version of UVC-related drivers
Color System / Compression	YUY2 / H.265 / H.264 / MJPEG
Video Format	YUY2(ISOC Mode): Max.1440P30;MJPEG: Max.2160P30;H.264 AVC: Max.2160P30;H.264 SVC: Max.2160P30;H.265 AVC: Max.2160P30

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USB Features	
UVC Audio	Support
USB Video Communication Protocol	UVC1.1 and UVC1.5
General Specifications	
Input Voltage	DC 12V / USB 5V / PoE(802.3af)
Input Current	12V 1.0A(Max.)/5V 1.5A(Max.)
Operating Temperature	-10° C ~ 40° C
Storage Temperature	-40° C ~ 60℃
Power Consumption	12W (Max.)
Dimension	144mm x144mm x 166.4mm
Net Weight	1.41Kg

Document history

New or revised topic	Described in	Date
Updates to FS FC731-4K Conference Camera Data Sheet	Updated all	6/20/2023

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