RC823-X

Full NDI 1080P PTZ Camera

1080P | NDI® | HB | USB 3.0 | 30X Optical Zoom

A new generation of ISP image processing algorithm

The new generation of ISP image processing algorithm provides perfect white balance and auto exposure functions, to significantly improve the output performance of the camera image and better imaging effect. Widely used in education recording and broadcasting, distance education, video conferencing, live broadcasting, broadcasting and other industries.

Upgraded AI tracking

Using upgraded AI technology, through face recognition, it can accurately determine the location of people to realize auto tracking and auto framing function.

1080p60 NDI® | HB

RC820-X supports 1080p60 NDI® | HB technology, bringing low latency and high -quality audio and video signal transmission, which can achieve unparalleled ultra -high -resolution picture quality and closer to visual lossless effects.

Leading auto focus technology

Adopts advanced focus algorithms to make the lens focus quickly, accurately, and stably.

Exclusive audio processing algorithm

Exclusive audio processing algorithm, can eliminate reverberation, effective environmental noise reduction, and support EQ adjustment, optimize sound effect; The camera supports dual MIC pickup, and extended mics, wireless mics connecting, etc., meeting the sound pickup requirements in most scenarios.

Multiple video interface

Support SDI, HDMI, USB 3.0 and network audio and video output.

Camera	
Video System	1080P60，1080P59.94，1080P50，1080I60，1080I59.94，1080I50，1080P30，1080P29.97，1080P25，720P60，720P59.94，720P50
Sensor	1/2.8'', CMOS, Effective Pixel: 2.07M
Scanning Mode	Progressive
Lens	30x, f4.42mm ~132.6mm, F1.8 ~ F2.8
Minimal Illumination	0.5 Lux @ (F2.0, AGC ON)
Shutter	1/30s ~ 1/10000s
White Balance	Auto, Manual, One Push, VAR
Backlight Compensation	Support
Digital Noise Reduction	2D,3D digital noise reduction
Video S/N	⩾55dB
Horizontal Angle of View	60.7° ~ 3.36°
Vertical Angle of View	34.1° ~ 1.89°
Horizontal Rotation Range	±170°
Vertical Rotation Range	-30° ~ +90°
Pan Speed Range	1.7° ~ 100°/s
Tilt Speed Range	1.7° ~ 69.9°/s
H & V Flip	Support
Image Freezing	Support
Number of Preset	255
Preset accuracy	0.1°

Audio	
Microphone Arrays	Built-in dual microphones, 100Hz to 16KHz frequency response
LINE IN	Support LINE IN
Audio Output	Support HDMI, USB, LAN, SDI and other audio output

Input/output Interface	
USB Interface	1xUSB 3.0: Type A
HDMI&SDI	1xHDMI , 1x3G-SDI
LAN	1xRJ45：1000M Adaptive Ethernet port
Audio Interface	Built-in two microphones, support 1xLine In, switchable. 1x Line Out
RS485&RS232	1x visca in,1x visca out，support 2Pin RS485

USB Features	
Operating System	Windows® 7 (1080p and lower resolution only), Windows 8.1, Windows 10 or higher
	macOS™ 10.10 or higher
	Google™ Chromebook™ Version 29.0.1547.70 or higher
	Linux (need to support UVC)
Hardware Requirements	2.4 GHz Intel® Core 2 Duo processor or higher
	2 GB RAM or higher
	USB 2.0 interface
Color System / Compression	YUY2/MJPEG/H.264
Video Format	Support a variety of video formats with different frame rates and resolutions, up to 1080P60 YUY2 output
USB Video Communication Protocol	UVC 1.1 or UVC1.5
USB Audio	32K sampling rate, support UAC2.0
UVC PTZ Control	Support

IPC Features	
Video Coding Standard	H.264
Video Stream	Main Stream, Sub Stream
Main Stream Resolution	1920x1080,1280x720,1024x576, 960x540,640x480,640x360
Sub Stream Resolution	1280x720,1024x576,720x576, 720x480,720x408,640x360, 480x270,320x240,320x180
Video Bit Rate	32Kbps ~ 20480Kbps
Bit Rate Type	Variable Rate, Fixed Rate
Frame Rate	1fps ~ 60fps
Audio Compression	AAC
Audio Bit Rate	96Kbps, 128Kbps, 256Kbps
Support Protocols	NDI, TCP/IP, HTTP, RTSP, RTMP, Onvif, DHCP, Multicast,SRT etc.

Generic specification	
Input Voltage	DC 12V
Input Current	1000mA
Working Temperature	0°C ~ 40°C
Storage Temperature	-40°C ~ 60°C
Power Consumption	12W
Size	169mm x 142mm x 164mm
Net Weight	1.35Kg (3.0lb)
MTBF	30000h