ROCWARE

HD Video Conference Camera

RC820X (black color)

RC820X-W (white color)

RC820X-N (black color with NDI)

Camera

Video System	1080P60, 1080P59.94, 1080P50, 1080I60, 1080I59.94, 1080I50, 1080P30, 1080P29.97, 1080P25, 720P60, 720P59.94, 720P50
Sensor	Sony 1/2.8", CMOS Effective Pixel: 2.07M
Scanning Mode	Progressive
Lens Mount	20x, f4.42mm-88.5mm, F1.8-F2.8
Digital Zoom	16x (optional)
Minimal Illumination	0.5 Lux @ (F1.8, AGC ON)
Shutter	1/30s ~ 1/10000s
White Balance	Auto, Indoor, Outdoor, OnePush, Manual, Temp (2000K - 8000K)
Backlight Compensation	Yes
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
Autotracking	Yes
H & V FLIP	Yes
Image freeze	Yes
PoE	Yes
Local storage	No
Number of preset	255
Preset accuracy	0.1°

Input/Output Interface

HD output	1XHDMI 1X3G-SDI
Network interface	1xRJ45：1000M Adaptive Ethernet port
Audio interface	Built-in two microphones, 1xLine In 3.5mm Audio Interface, 1x Line Out 3.5mm Audio Interface
USB	1xUSB 3.0: Type A
Communication interface	1xRS232 In: 8pin Min DIN, Max Distance:30m, VISCA/Pelco-D/Pelco-P Protocol
	1 x RS232 OUT: 8pin Min DIN, Max Distance: 30m, Protocol: VISCA network use only
	1xRS485: 2pin Phoenix Port, Max Distance:1200m, VISCA/Pelco-D/Pelco-P Protocol
Power jack	jeita type (DC in 12V)

Generic Specification

Power Supply	DC 12 V AC Adapter/PoE (802.3af)
Current Consumption	1.0A (Max)
Operating Temperature	-10°C ~ 40°C
Storage Temperature	-40°C ~ 60°C (-40°F ~ 140°F)
Power Consumption	12W (Max)
Size	127.5mm x 72.0mm x 60.0mm
Net Weight	1.35kg (3.0LB)
MTBF	>30000h

Main Features

● **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 technology**
Using upgraded AI technology, through Face Detection, it can accurately determine the location of people to realize auto tracking and auto framing function.

● **1080p60 NDI® l HB. For RC820-N only**
RC820-X supports 1080p60 NDI® l 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.

● **Multiple video interface**
Support SDI, HDMI, USB 3.0 and network audio and video output.

● **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.

IPC Features

Video Compression	H.265/H.264/MJEPG
Video Stream	main stream, sub stream
Main stream resolution	1920X1080, 1280X720, 1024X576, 960x540, 640x480, 640x360
Sub stream resolution	720X576, 720X480, 320X240, 1280x720, 1024x576, 640x360, 480x270, 320x180
Video bit rate	32Kbps ~ 20480Kbps
Bit rate type	variable rate, fixed rate
Frame rate	50hz: 1fps ~ 50fps, 60hz: 1fps ~ 60fps, 720p120: 120fps
Audio compression	AAC
Audio bit rate	96kbps, 128kbps, 256kbps
Support protocols	TCP/IP, HTTP, RTSP, RTMP, ONVIF, DHCP, MULTICAST, etc.

Rocware reserves the right of final interpretation for this datasheet.