



RIPA C20 INTELLIGENT MEETING ORCHESTRATOR

Version 3.3.1

Data Sheet

RipaTech Pty Ltd

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PRODUCT SUMMARY

Ripa C20 Intelligent Meeting Orchestrator is an industry standard video and audio CODEC. It is designed to process high quality 4K video and high-quality audio. The intelligent firmware and high spec CPU make this CODEC the most cost effective in the industry.

C20 is ideally used in the meeting room where a single display panel and single camera is present for huddle and medium room to communicate with remote meeting participants.



Figure 1: C20 Intelligent Meeting Orchestrator

FEATURE HIGHLIGHTS

C20 offers a mature list of SIP/H.323 CODEC features:

- **SIP and H.323 protocols:** supports both SIP and H.323 protocols.
- **Audio Processing:** support Automatic Echo Cancellation (AEC), Automatic Gain Control (AGC), Automatic Noise Suppression (ANS)
- **Multiple Video Compression Standard:** It supports H.263/H.264 video compression.
- **Chromas key:** support to display an image as your background during a meeting, which can provide you with more privacy or a consistent. This feature must be purchased separately on initial order.
- **Superb High-Definition Image:** It employs 1/2.8-inch high quality CMOS sensor. Resolution is up to 1920x1080 with frame rate at 60 fps.
- **Subtle Gesture Control:** It supports Subtle Gesture Control – Mute/Hide
- **Optical Zoom Lens:** It has 12X/20X optical zoom lens for options.

TECHNICAL SPECIFICATIONS

Technical Specifications

Package includes:

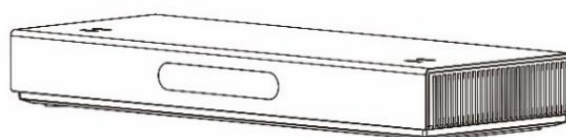
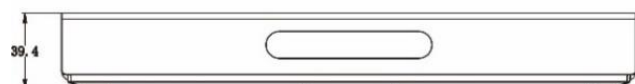
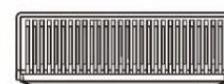
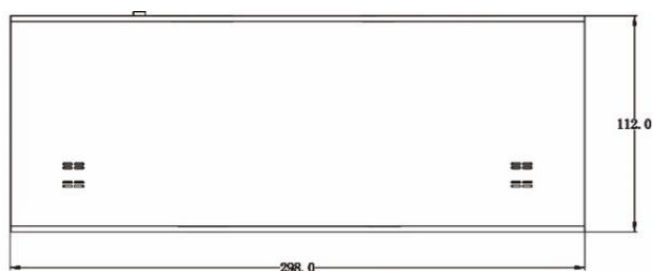
- + RIPA C20 Codec
- + RIPA R30 camera
- + RIPA Microphone Array
- + Remote control
- + Cable bundle

Module	Function	Description
System	SOC	RK3588
	RAM/ROM	8G/32G
System Interface	Support system interface customization	
Resolution	Video Resolution Encode	Up to 1920x1080 (HD 1080p); Content Frame Rate: Up to 30fps
	Content Video Resolution	Up to 1920x1080 (HD 1080p); Content Frame Rate: Up to 30fps
Audio	Mics	Built in 2x Electret Microphone
	Audio Processing	Auto Echo Cancellation (AEC) Auto Gain Control (AGC) Auto Noise Suppression (ANS)
	Audio Codec	G.711(a/μ), G.719, G.722, G.722.1, G.722.1C, AAC, OPUS. Frequency range: 7kHz-to 48 kHz
Codec	Format	H.261, H.263, H.263+, H.264, H.264 High Profile, H.239, BFCP (Content Sharing)
Controller	Remote Control	Infrared Remote Control
	Web UI	Manage via Web Interface
Network	IPv4, IPv6, Bandwidth: up to 4Mbps. Lost Packet Recovery	
Security	Algorithms: AES (128 – 256 bit) for Media SIP and H.323, Authenticated access, TLS	
Interface	Image Interface	2x HDMI OUT, Support single-screen display One HDMI output enabled standard, second output enabled with optional license key
	Content Interface	1x HDMI IN
	USB	2x USB 1x Micro USB
	Audio Jack	1x 3.5mm linear output 1x LINE IN Input, 3-pin Phoenix terminal 1x MIC IN Input, 3-pin Phoenix terminal (with phantom power)
	Network Port	Support Ipv4, 1x 10/100 Ethernet, Bandwidth (H323/SIP) up to 4 Mbps
	Power Interface	HEC3800 Power Socket (DC12V)
	Wall Mount Bracket	Wall/Ceiling Mount Brackets (Optional)
Camera	R30-12	R30-20
Parameters		
Image Sensor	1/2.8-inch high quality HD CMOS sensor	
Effective Pixel	2.07M, 16:9	
Video Format	HDMI: 1080P60/50/30/25/59.94/29.97, 1080I60/50/59.94, 720P60/50/59.94/ U3: 1)U3: 1920X1080P60/50/30/25, 1280X720P60/50/30/25, 960X540P30, 640X360P30, 640X480P30, 352X288P30, 800*600P30	

	2)U3 compatible with U2: 960X540P30, 640X360P30, 1280X720P10/15, 720X576P50, 720X480P60, 640X480P30, 352X288P30, 800*600P30. - U2: 320x240 / 352x288 / 640x480 / 704x576 / 720x480 / 720x576 / 640x360 / 800x448 / 800x600 / 960x540 / 1024x576 / 1024x768 / 1280x720 / 1920x1080P30/25/20/15/10/5	
Optical Lens	12X f=4.1～49.2mm	20X f=5.05～101mm
Viewing Angle	6.57°（N） 70.28°（W）	3.45°（N） 60.04°（W）
Iris	F1.8 – F2.68	F1.8 – F2.9
Digital Zoom	10X	
Minimum Illumination	0.5Lux (F1.8, AGC ON)	
DNR	2D & 3D	
White Balance	Auto / Manual / One-push / 3000K / 3500K / 4000K / 4500K / 5000K / 5500K / 6000K / 6500K / 7000K	
Focus	Auto / Manual / One-push	
Iris	Auto / Manual	
Electronic Shutter	Auto / Manual	
BLC (Backlight Compensation)	On / Off	
Dynamic Range	Off / Dynamic level adjustment	
Video Adjustment	Brightness, Contrast, Sharpness, Horizontal Flip, Vertical Flip, Black and White Mode, Gamma Curve, Electronic Zoom, DCI, Ultra Low Light Mode	
SNR	>55dB`	
Interface		
Interface	HDMI, LAN, RS232, A-IN, U2, U3	
Video Output	HDMI, USB 3.0, LAN, USB 2.0	
Image Streaming	Dual streaming output	
Video Compression Formats	H.265, H.264 USB 2.0: MJPG, H264, H.265, YUY2, NV12	
Audio IN Jack	A-IN: Dual audio channel 3.5mm linear input	
Audio Compression Format	AAC, MP3, G.711A	
Network Jack	100M（10/100BASE-TX）	
Network Protocols	RTSP, RTMP, ONVIF, GB/T28181; Support network VISCA control protocols, remote upgrade, remote restart, and remote reset.	

Control Jacks	RS232 (loop in/out)
Control Protocols	Protocols: VISCA/Pelco-D/Pelco-P; Baud Rate: 115200 / 38400 / 9600 / 4800 / 2400
Power Jack	HEC3800 power socket (DC12V)
Power Adapter	Input: AC110V-AC220V Output: DC12V/1.5A
Input Voltage	DC12V±10%
Input Current	1A (Max)
Power Consumption	12W(Max)
PTZ	
Pan	-170°~+170°
Tilt	-30°~+90°
Pan Speed	0.1 ~ 60°/s
Tilt Speed	0.1~30°/s
Preset Speed	Pan: 60°/s, Tilt: 30°/s
Preset Quantity	User can set 255 presets (10 via IR remote control)

PRODUCT DEMENSION



PRODUCT IMAGE LIBRARY



Figure 2: C20 Front



Figure 3: C20 Back



Figure 4: Camera

ORDERING GUIDE

RipaTech product code: RP-C20- 00680