



RIPA G20 INTELLIGENT MEETING ORCHESTRATOR

Version:3.2

Data Sheet

RipaTech Pty Ltd

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PRODUCT SUMMARY

Ripa G20 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 G20 Intelligent Meeting Orchestrator

FEATURE HIGHLIGHTS

G20 offers a mature list of SIP/H.323 CODEC features:

- **SIP and H.323 protocol stacks:** supports both SIP and H.323 protocols.

- **Audio Processing:** support Automatic echo elimination (AEC), Automatic gain control (AGC), Automatic noise suppression (ANS)
- **Multiple Video Compression Standard:** It supports for H.263/H.264 video compression.
- **Chromatic:** 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.
- **Camera 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.
- **Optical Zoom Lens:** It has 12X/20X optical zoom lens for options.
- **Leading Auto-focus Technology:** Boasting leading auto-focus algorithm, this camera can achieve auto focus with speed, accuracy, and stability.

TECHNICAL SPECIFICATIONS

Technical Specification		
Module	Function	Description
System	SOC	RK3588
	RAM/ROM	8G/32G
System Interface	Support system interface customization	
Resolution	Up to 1080/30 fps (People and Content)	
Audio	Mics	Built in 2x Electret Microphone
	Audio Processing	Auto Echo Cancellation (AEC) Auto Gain (AGC) Auto Noise Suppression (ANS)
	Audio Codec	G.711(a/μ), G.719, G.722, G.722.1, G.722.1, AAC, OPUS. Frequency range: 7kHz-to 48 kHz
Codec	Format	H.261, H.263, H.263+, H.264, H.264HP. H.239, BFCP (Content Sharing)
Controller	Remote Control	Infrared Remote Control

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	1x HDMI OUT, HDMI 2.0, Support single-screen display
	Content Interface	1x HDMI IN, HDMI 2.0
	USB	2x USB 3.0 1x Micro USB debugging port
	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	1x 10/100M RJ45
	Power Interface	HEC3800 Power Socket (DC12V)
	Wall Mount Bracket	Wall/Ceiling Mount Brackets (Optional)
Camera	R30-12	
	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
	Viewing Angle	6.57° (N)

		70.28° (W)
Iris		F1.8 – F2.68
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)
Interface		HDMI, LAN, RS232, A-IN, U2, U3
Video output		HDMI, USB3.0, LAN, USB2.0
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.