



# RIPA C20 INTELLIGENT MEETING ORCHESTRATOR

Version v5.5

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 dual 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.
- **Subtle Gesture Control:** It supports Subtle Gesture Control – Mute/Hide
- **Camera Options:** It can be used with has all Ripa 4K, 1080p and table 360 cameras.

## TECHNICAL SPECIFICATIONS

### Technical Specifications



## Ripa C20 Intelligent Meeting Orchestrator

| <b>Package includes:</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                            |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| + RIPA C20 Codec         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                            |
| + RIPA camera            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                            |
| + RIPA Microphone Array  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                            |
| + Remote control         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                            |
| + Cable bundle           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                            |
| Module                   | Function                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Description                                                                                |
| System Interface         | Support system interface customization                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                            |
| Resolution               | Video Resolution Encode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Up to 4K;<br>Content Frame Rate: Up to 30fps                                               |
|                          | Content Video Resolution                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Up to 4K;<br>Content Frame Rate: Up to 30fps                                               |
| Feature Highlights       | <ul style="list-style-type: none"> <li>• Allow HDMI input for content sharing or as camera input, including video and audio.</li> <li>• Displays the near-end camera in full-screen mode during the meetings.</li> <li>• Allows automatic or manual start content sharing.</li> <li>• Supports camera presets via remote control and web-based management.</li> <li>• Power on/off button available on the device chassis.</li> <li>• Power on/off control via remote control.</li> <li>• Allows changing the meeting room background.</li> <li>• Supports IP camera connectivity (Video over IP).</li> </ul> |                                                                                            |
| Audio                    | Audio Processing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Auto Echo Cancellation (AEC)<br>Auto Gain Control (AGC)<br>Auto Noise Suppression (ANS)    |
|                          | Audio Codec                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | G.711(a/μ), G.719, G.722, G.722.1, G.722.1C, AAC, OPUS.<br>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                | Camera Input                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2x USB<br>1x HDMI<br>Video over IP                                                         |
|                          | Video Output                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2x HDMI                                                                                    |
|                          | Audio Input                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1x LINE IN Input, 3-pin Phoenix terminal<br>1x USB<br>1 x HDMI                             |
|                          | Audio Output                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1 x HDMI<br>1 x 3.5mm stereo line-out<br>1x USB                                            |



Ripa C20 Intelligent Meeting Orchestrator

|  |                    |                                                                                                                                    |
|--|--------------------|------------------------------------------------------------------------------------------------------------------------------------|
|  | Image Interface    | 2x HDMI OUT                                                                                                                        |
|  | Content Interface  | 1x HDMI IN                                                                                                                         |
|  | USB                | 2x USB (for Camera or Audio System)<br>1x Micro USB                                                                                |
|  | Audio Jack         | 1x 3.5mm linear output<br>1x LINE IN Input, 3-pin Phoenix terminal<br>1x MIC IN Input, 3-pin Phoenix terminal (with phantom power) |
|  | Network Port       | Support IPV4 & IPV6, 1x 10/100 Ethernet,<br>Bandwidth (H323/SIP) up to 4 Mbps                                                      |
|  | Power Interface    | HEC3800 Power Socket (DC12V)                                                                                                       |
|  | Wall Mount Bracket | Wall/Ceiling Mount Brackets (Optional)                                                                                             |

| Camera Models                     | R51-12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | R51-20                  | R51-30                 |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|------------------------|
| <b>Equipment, lens parameters</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                         |                        |
| <b>Image Sensor</b>               | 1/2.8-inch high-quality CMOS sensor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                         |                        |
| <b>Effective pixel</b>            | 8.42 million、16: 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                         |                        |
| <b>Video Signal</b>               | <p><b>HDMI/SDI/LAN Interface video format:</b></p> <p>3840x2160/1920x1080P60/59.94/50/30/29.97/25; 1080P60/59.94/50/30/29.97/25;<br/>720P60/59.94/ 50</p> <p><b>USB Interface video format:</b></p> <p>YUY2/NV12:1920 x 1080/1280 x 720/1024 x 576/800 x 600/800 x 448/640 x 480/640 x<br/>360/480 x 270/320 x 180P30/25/20/15/10/5</p> <p>H264/H265/MJPEG: 3840x2160/1920 x 1080/1600 x 896/1280 x 720/1024 x 576/960<br/>x540/800 x600/800 x 448/720 x576/720 x480/640 x480/640 x360/352 x288/320<br/>x240P60/50/30/25/20/15/10/5fps</p> |                         |                        |
| <b>Optical</b>                    | 12X                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 20X                     | 30X                    |
| <b>Zoom Lens</b>                  | f=4.1~49.2mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | f=5.05~91.49mm          | F=5.2~148.4mm          |
| <b>Field of View</b>              | 6.72° (N)<br>70.4° (W)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 3.81° (N)<br>60.04° (W) | 2.14° (N)<br>58.1° (W) |



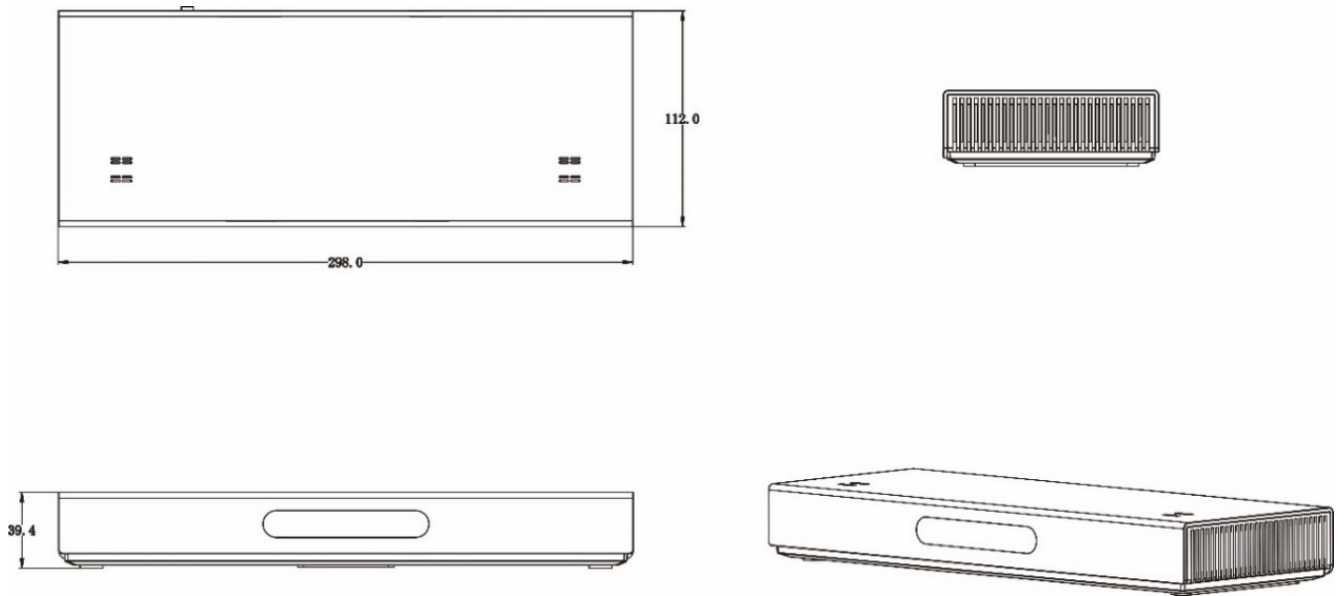
## Ripa C20 Intelligent Meeting Orchestrator

|                                |                                                                                                                                         |             |             |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|
| <b>Aperture Ratio</b>          | F1.8 – F2.68                                                                                                                            | F1.8 – F2.9 | F1.3 – F4.8 |
| <b>Digital Zoom</b>            | 16 X                                                                                                                                    |             |             |
| <b>Minimum Illumination</b>    | 0.5Lux(F1.8, AGC ON)                                                                                                                    |             |             |
| <b>Digital Noise Reduction</b> | 2D & 3D                                                                                                                                 |             |             |
| <b>White Balance</b>           | Auto/Manual/One-Key White Balance<br>3000K/3500K/4000K/4500K/5000K/5500K/6000K/6500K/7000K                                              |             |             |
| <b>Focus</b>                   | Auto/Manual/One-Key Focus                                                                                                               |             |             |
| <b>Aperture</b>                | Auto/Manual                                                                                                                             |             |             |
| <b>Electronic Shutter</b>      | Auto/Manual                                                                                                                             |             |             |
| <b>Backlight Compensation</b>  | On/Off                                                                                                                                  |             |             |
| <b>Dynamic Range</b>           | Off/Dynamic Range Adjustment                                                                                                            |             |             |
| <b>Video Adjustment</b>        | Parameters such as brightness, sharpness, saturation, contrast, white balance, anti-flicker, and low-light compensation are adjustable. |             |             |
| <b>SNR</b>                     | >50dB                                                                                                                                   |             |             |



# Ripa C20 Intelligent Meeting Orchestrator

## PRODUCT DEMENSION



## PRODUCT IMAGE LIBRARY



Figure 2: C20 Front



Figure 3: C20 Back



## Ripa C20 Intelligent Meeting Orchestrator



Figure 4: Camera

### ORDERING GUIDE

RipaTech product code: RP-C20- 00680