HUAWEI Room Presence Series

HUAWEI Room Presence series (RP) are compact system with HD codec, camera, display and microphone array. RP bring people together in a best ever virtual meeting experience and enable face to face collaboration as personal as being in the same room. It is a cost-effective solution which helps reduce costs and accelerate decision-making for enterprises.

Next-Generation Technology for Superior HD Experience at Lower Bandwidth

Supports Video Motion Enhancement (VME) and H.264 HP; saves 50% of bandwidth.

Proprietary VME combined with intelligent face recognition and video image processing helps RP adapt to different lighting conditions, reduce bandwidth consumption, and enhance video quality.

Ease of Use

With an innovative and well organized GUI (Graphical User Interface), HUAWEI Room Presence series enable users to operate the system easily and efficiently.

Voice Dialing

RP recognize multiple languages. You can call or join a conference by saying the name of the scheduled conference or the site name.

Outstanding Network Adaptability and Security Mechanism

Patented Super Error Concealment (SEC) ensures high-quality video experience even with packet loss of 20 percent.

Supports H.264 SVC to adapt to different bandwidths, device capabilities, and network requirements.

Standard H.460 and proprietary SNP technology guarantee secure firewall traversal.

H.235 media stream and signaling encryption; SRTP, TLS, and HTTPS encryption.

Flexible options

Multi size displays for selection.

Single and Dual displays for selection.

Flexible deployment: pedestal stand or pedestal stand with wheels.

RP100-46S / RP100-55S
RP100-46A / RP100-55A

RP200-46S / RP200-55S
RP200-46A / RP200-55A

HUAWEI ENTERPRISE ICT SOLUTIONS A BETTER WAY

HUAWEI Room Presence System Specifications

System Components

HD Codec, HD camera and VPM220, display and remote control

Display: 47" / 48" or 55" HD display

Optional: 10" touch panel , MiniMCU license

Standard & Protocols

Standards and Protocols: ITU-T H.323, IETF SIP

Video Standards & Protocols: H.261, H.263, H.263+, H.264 BP, H.264 HP, H.264 SVC

Audio Standards & Protocols: G.711, G.722, G.728, G.722.1*, G.722.1C*, AAC-LD, HWA-LD, G.719, G.729A

Dual Stream: ITU-T H.239, BFCP

Other Standards: H.221, H.225, H.230, H.231, H.233, H.234, H.235, H.241, H.242, H.243, H.245, H.281, H.283, H.350, H.460, T.140

Network Standards & Protocols: TCP/IP, FTP, FTPS, DHCP, SNMP, Telnet, SSH, HTTP, HTTPS, PPPoE, RTP, RTCP, SNTP, 802.1X, 802.1P, 802.1Q

Bandwidth requirements

Frame	Minimum	Recommended
720p 30fps	384 kbps	768 kbps
720p 60fps	512 kbps	1 Mbps
1080p 30fps	512 kbps	1 Mbps
1080p 60fps	1 Mbps	2 Mbps

Video Specifications and Features

People Video Resolution:

- 1080p (50/60fps) (RP-A), 1080p (25/30fps), 720p (50/60fps), 720p (25/30fps)

Content Video Resolution:

- Input: VGA (640 x 480) @ 60/72/75/85 fps, SVGA (800 x 600) 56/60/72/75/85 @ fps, XGA (1024 x 768) @ 60/70/75/85 fps, 1152 x 864 @ 60/75/85 fps, 1280 x 600 @ 60 fps, WVGA (1280 x 768) @ 60/75/85 fps, WXGA (1280 x 800) @ 60/75/85 fps, 1280 x 960 @ 60/75/85 fps, SXGA (1280 x 1024) @ 50/60/72/75/85 fps, 1360 x 768 @ 60 fps, 1366 x 768 @ 60 fps, 1440 x 900 @ 60 fps, XGA+ (1400 x 1050) @ 60 fps, 720p @ 60/75/85 fps, 1080p @ 60 fps, 1600 x 900 @ 60 fps, 1600 x 1200 @ 60 fps, 1680 x 1050 @ 60 fps, 1920 x 1200 @ 60 fps
- Coding/Decoding resolution: 800 x 600, 1024 x 768, 1280 x 1024, 1280 x 720, 1920 x 1080; RP-A:1600 x 1200 , 1920 x 1200
- Output: 800 x 600, 1024 x 768, 1280 x 1024, 1280 x 720, 1920 x 1080; RP-A:1600 x 1200 , 1920 x 1200

Dual Stream: RP-A:

- Dual 1080p @ 60 fps ;
- RP-S: Dual 720p @ 30 fps or 1080p @ 30fps + 1080p @ 5fps

1080p HD Camera:

- Lens(RP-A): 2.38-megapixel and 1/2.8-inch CMOS imaging chip
- Lens(RP-S): 2-megapixel and 1/3-inch CMOS imaging chip
- Lens: 2-megapixel and 1/3-inch CMOS imaging chip
- Zoom: 12x optical
- Maximum horizontal angle: 72°horizontal field of view
- Panning/Tilting angle: +/-30° tilt, +/- 100° pan
- Automatic White Balance (AWB), Automatic Exposure (AE), Automatic Focus (AF)
- Far-end camera control

Other Video Features	Intelligent Face Detection Picture in Picture, Picture outside Picture	VME (Video Motion Enhancement) Video Intensifier View Processing

Audio Specifications and Features

Audio features:

- Dual-channel AAC-LD Stereo
- Acoustic Echo Cancellation (AEC)
- Acoustic Noise Suppression (ANS) 12 dB
- Automatic Gain Control (AGC) ±6 dB
- Voice Clear, Audio Enhancer
- Lip synchronization

Security and Stability

Network:

- Super Error Concealment (SEC), Intelligent Rate Control (IRC)
- Automatic Repeat-reQuest (ARQ), Forward Error Correction (FEC), PLC

Security:

- H.235 signaling and media stream encryption
- AES media stream encryption, dual-stream encryption
- TLS and SRTP for SIP signaling and media stream encryption
- Conference access password, conference control password
- Administrator password, SSH/HTTPS

Firewall Traversal: H.460.18, H.460.19 firewall traversal, Static NAT, SNP

Bandwidth

IP: RP-S: 64 Kbps to 4 Mbps; RP-A: 64 Kbps to 8 Mbps

Application Features

Languages (Remote control): Simplified Chinese, Traditional Chinese, English, German, Spanish, French, Norwegian, Italian, Polish, Russian, Portuguese, Hungarian, Finnish, Romanian, Czech, Swedish, Arabic, Turkish, Greek

Languages (Touch panel): Simplified Chinese, Traditional Chinese, English, Spanish, French, Portuguese, Arabic, Thai, Russian, Japanese

Special Features	• Voice Dialing in English and Chinese • USB auto data configuration • Integration with Microsoft Lync2010™ and OCS2007R2 • Hybrid with IMS network • IPv6 • Wireless Wi-Fi access • Air content sharing • SiteCall • Lock Site/Conference	• Web-based conference management • Web-based image monitoring and HD picture snapshot • 16:9 and 4:3 mixed display • Picture-in-picture: 1/16 picture size, optional position • Split output: Bi-screen and tri-screen display • LDAP/Network address book • API for integration
Digital Caption	• Caption banner, body text and information bar • Rolling display mode of the speech draft • Modifiable front background color, caption size and transparency • 64 optional colors	• Editable caption and auto zone adjustment • Caption rolling mode setting • Site name display and position shift • Text input through remote control • External character generator • Powerful caption SMS function

Maintenance Management

Maintain Methods:

- Remote control: 3D Effects & GUI Animation
- Endpoints Network Management: SNMP
- Embedded Web server, GUI interface
- Command line mode: Telnet/SSH

Maintain Functions:

- Endpoint IP and number are displayed on the front panel
- Auto sleep, wake-up by remote control or remote module
- Event log record, query, display and export query results
- IP network test, default settings restoration
- Local and remote loopback
- Test signals: providing sound test and standard test stripes

Physical Characteristics

Dimensions (H x W x D)

- RP200-55S: 1741 (1891) ×2482×618 mm
- RP200-46S: 1645 (1795) ×2142×618 mm
- RP100-55S: 1741 (1891) ×1241×618 mm
- RP100-46S: 1645 (1795) ×1071×618 mm
- RP200-55A: 1741 (1891) ×2482×618 mm
- RP200-46A: 1645 (1795) ×2142×618 mm
- RP100-55A: 1741 (1891) ×1241×618 mm
- RP100-46A: 1645 (1795) ×1071×618 mm

Weight:

- RP200-55S: 138.2 kg ; RP200-46S: 118.2 kg
- RP100-55S: 106.2 kg ; RP100-46S: 95.2 kg
- RP200-55A: 125.4 kg ; RP200-46A: 112.4 kg
- RP100-55A: 101.8 kg ; RP100-46A: 94.3 kg

Power Supply & Power Consumption:

- Working voltage: 100 - 240 VAC
- Working frequency: 50 - 60 Hz
- Power consumption:
- RP200-55S: 260 w ; RP200-46S: 230 w
- RP100-55S: 160 w ; RP100-46S: 145 w
- RP200-55A: 260 w ; RP200-46A: 230 w
- RP100-55A: 160 w ; RP100-46A: 145 w

Environmental Specification:

- Operating Temperature: 32 to 95°F (0° C to 35°C)
- Operating Humidity: 20 to 80%
- Peripheral noise: < 46 dBA SPL
- Lowest luminance: 7 lux
- Recommended luminance: > 300 lux

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*: G.722.1/G.722.1C, licensed from Polycom®