

DH-VCS-RPS3B0

Integrated Telepresence System



- Simple and portable units integrate 1080P full-HD camera, codec, MIC, loudspeaker, 1 display screen and a frame with wheels, making it easy to use
- Supports H.265 video encoding protocol, provides life-like experiences even with ultra-low bandwidth
- Supports OPUS audio coding technology, creating Hi-Fi audio-visual experiences
- Perfectly interoperable with other conferencing products making it simple to operate and easy to maintain



System Overview

The Dahua telepresence series RPS3B0 is a simple and portable unit with 1080P full-HD camera, codec, mic, loudspeaker, 1 display screen, and a frame with wheels, which is suitable for small to mid-size meeting rooms. The RPS3B0 supports dual 60fps @ 1080P full-HD image and OPUS audio coding technology, bringing you a life-like face-to-face experience.

Functions

Highly integrated, easy to deploy

Utilizing an integrated design with 1080P full-HD camera, codec, MIC, loudspeaker, 1 display screen, and a frame with wheels, RPS3B0 can easily bring video conferencing into the office and meeting room. Combined with a 49", 55", or 65" monitor, RPS3B0 brings users a life-like face-to-face experience.

Powerful built-in MCU

Embedded with a powerful MCU, the RPS3B0 lets you create meetings without requiring the purchase of external expensive MCUs (Multi-point Control Units). The device supports 4 sites 30fps @ 1080P or 6 sites 30fps @ 720P, which perfectly satisfies the needs of video conferences and enables efficient communication.

Outstanding full-HD PTZ camera

Benefiting from a 1/2.8" 2.1MP CMOS sensor, RPS3B0 delivers a 60fps @ 1080P full-HD image. The RPS3B0 features a fast, accurate, and stable auto vari-focal lens with up to 12x optical zoom, allowing for viewing wide angle images at a distance.

Strong network adaptability provides seamless experience for low-bandwidth connections

Thanks to our unique anti-packet loss technology, RPS3B0 ensures normal operation of audio and video in the event of a 30% packet loss or 800ms delay. By supporting a new generation of H.265 encoding technology, the device adapts to different networking requirements and provides a 1080P full-HD image over low bandwidth connections.

Open standards, compatible interoperability

Conforming to ITU-T H.323 and IETF SIP communication standards, RPS3B0 supports industry standard A/V encoding technologies and achieves seamless interconnection with products that meet international standards. Meanwhile, it achieves integration with security products which conforms to industry standard.

Rich functionality delivers easy use

RPS3B0 can connect to networks via Wi-Fi, making it easy to adapt to various meeting scenarios. An LED screen displays meeting site information (IP address) in real-time, providing easy maintenance.

Record meetings onto USB drives

Powerful meeting recording enables you to archive real-time meetings, which is crucial for meeting reviews. With the RPS3B0, all you need is a USB drive to record meeting video.

Accurate real-time information sharing

RPS3B0 supports 1080P full-HD dual stream to simultaneously transmit and receive video and documents. The device allows users to share and edit documents, PPTs, and other information in real-time, providing effective visual communication.

Technical Specifications

Architecture

Architecture	Integrated design with 1080P full-HD camera, codec, MIC, 1 display screens, loudspeaker and a frame with wheels
Display	1 x 49"/55"/65" display

Video Features

Video Codec	H.265, H.264HP and H.264BP
Video Resolution	Main stream: 1080P, 720P, D1
	Demo stream: 1080P, 720P, D1
Frame Rate	5~60fps
Video Bitrate	128kbit/s to 8Mbit/s
Dual Stream	Dual 1080p

Audio Features

Audio Codec	OPUS, MP3, AAC-LC, G.719, G.711a and G.711u
Audio Processing	AEC (Acoustic Echo Cancellation), AGC (Automatic Gain Control), ANS (Automatic Noise Suppression), Self-Adaptive Post-filtering, Audio Error Correction and Lip Sync

Camera Features

Image Sensor	1/2.8" 2.1MP CMOS
Lens	Horizontal Angle: 73° , Zoom: 12x Optical Zoom
Frame Rate	30/60fps @ 1080P, 30/60fps @ 720P
Pan/Tilt	Pan: -120° ~ +120° Tilt: -30° ~ +30°

Communication & Security

Communication Protocols	ITU-T H.323, IETF SIP
Transmission Protocols	IPv4, TCP/IP, RTP, SRTP, RTCP, HTTP, DNS, NTP and DHCP
Other Protocols	H.225, H.235, H.245 and H.460

Network Features

Network Packet Loss Tolerance	In the event of a 30% packet loss, the conference audio and video is unaffected
Network Delay Tolerance	Normal conference processing for up to 800ms delay

Interfaces

Video Inputs	1 x VGA, 1 x built-in camera input
Video Outputs	2x HDMI
Audio Inputs	2 x 3.5mm audio jack, 1 x USB
Audio Outputs	2 x HDMI, 1 x 3.5mm audio jack
USB Interfaces	2 x USB 2.0 host
Network Interfaces	1 x RJ45 10/100/1000M self-adaptive network port

Certifications

Certifications	CE (EN55032, EN50130-4, EN301489-1, EN301489-17, EN300328, EN62311) FCC (CFR 47 FCC Part 15 subpartB, 2016) UL (60950-1 & CAN/CSA C22.2 No. 60950-1-07)
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Electrical

Power Supply	DC 12V, 3A
Power Consumption	<=36W

Environmental

Operating Conditions	0°C ~ +45°C (+32°F ~ +113°F) / 10%~80% RH
Storage Conditions	-40°C ~ +70°C (-40°F ~ +158°F) / Less than 95% RH

Ordering Information

Type	Part Number	Description
Telepresence System	DH-VCS-RPS3B0	Integrated Telepresence System

Dimensions (mm/inch)

