**DOLBY VOICE**

**Q Conferencing**

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# Dolby Voice® Room Data Sheet

## PRODUCT OVERVIEW

Dolby Voice Room combines industry-leading Dolby design and technology in a surprisingly affordable video conferencing solution that's easy for participants to use and for IT to manage. Seamlessly integrated with leading service providers, it flexes to people and places to give everyone an amazingly natural and collaborative meeting experience, adapting to the way we work and enabling what's truly important— the human connection.

Version 1.0.0
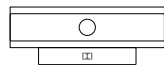
# Conferencing

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## COMPONENTS

Dolby Voice® Room is an integrated conferencing solution with advanced features of high-end systems at a fraction of the cost. At the core of Dolby Voice Room are Dolby-designed hardware components—the Dolby Voice Hub, Dolby Voice Camera, and Dolby Conference Phone.
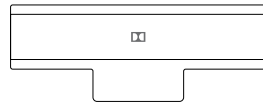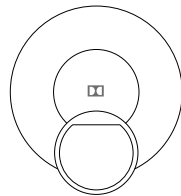
### Hub
The Dolby Voice Hub—a purpose-built appliance—integrates with leading service providers, powers the Dolby Voice Room experience, and provides a powerful and secure platform for future provider integration and development.

### Camera
The Dolby Voice Camera features a 4K Ultra HD image sensor, a 95° wide-angle lens, and multiple mounting options.

### Phone
The Dolby Conference Phone combines an unparalleled audio experience, adapting to shifting speaking volumes and room acoustics in real time, with an intuitive, touch screen user interface for complete meeting control. More than a phone, it's the ideal audio and control center for video conferencing, all in a single device that can act as a SIP phone for IP telephony calls.

### Accessories

| USB 1' | USB 6' | Display |
|---|---|---|
| Hub to camera (TV setup) | Hub to camera (separated/ tabletop) | Hub to display |

| Ethernet 9' | Ethernet 25' | Power |
|---|---|---|
| Hub to network | Hub to phone | Hub to wall |

Beautifully designed hardware that is streamlined and intuitive, Dolby Voice Room intelligently flexes to rooms and participants, giving everyone an amazingly natural and productive meeting experience. You can have high-end video conferencing capabilities at a reasonable price, and we're proving it with Dolby Voice Room.

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## VIDEO FEATURES

Dolby Voice Room adjusts to changing speakers, action, and lighting conditions, intelligently framing the discussion in real time.

### Intelligent scene framing

Using a machine learning algorithm, Dolby Voice Room learns who's talking, dynamically reframing the scene to capture the speaker, while keeping everyone in view, even as you move. Just as importantly, intelligent scene framing avoids jump cuts and tight crops—the whole conversation is captured. And, with digital pan-tilt-zoom (PTZ), it's all accomplished without distracting mechanical camera noise or movement.

### Whiteboard view

Dolby Voice Room scales and adjusts the view of the whiteboard, correcting perspective, so that your visuals on the side wall are front and center. Preset the whiteboard area in your room, or select via the touch-screen controls on the Dolby Conference Phone.

### HDR video mapping

HDR (high dynamic range) video mapping continuously balances exposure levels, even with changing daylight or difficult room lighting, always allowing you to see the scene in its best possible light. And with HDR, Dolby Voice Room accommodates a wide range of camera vantage points, simplifying setup and installation.
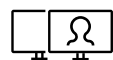
### Dual monitor support

Dolby Voice Room can support two monitors, one for meeting participants and one for content-sharing, or use both monitors for multiple participants.

### Dolby Voice Camera

The Dolby Voice Camera features a 4K Ultra HD image sensor, 95° wide-angle lens, and multiple mounting configurations—easily adapting to TV or tabletop installations, with secure mounting and precise angle adjustments.

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## AUDIO FEATURES

More than a phone, the Dolby Conference Phone is responsible for the Dolby Voice® audio experience and is the ideal video conferencing control center.

### Dynamic leveling

Dynamic leveling boosts the sound of quiet voices to ensure everyone can be heard, while quickly learning to distinguish speech from noise—powerfully compensating for poor room acoustics, cancelling echoes, and eliminating background noise.

### Full-room pickup

Full-room pickup captures near and distant voices, as well as overlapping speech, so that the conversation being had is the conversation being heard.

### Voice Placement

Dolby Voice Room makes it easier to follow who's speaking and understand what's being said by making it sound as if each person is speaking from a distinct location, the way it sounds when people are together in a room.

### Dual mode device

The phone acts as an endpoint for Dolby Voice-enabled services and a SIP conference phone for IP telephony, versatile enough to equip an entirely new installation or to replace older phones in a legacy system.

### Touch-screen interface

The Dolby Conference Phone's intuitive touch-screen controls and customizable service provider apps make it easy to start, join, and run meetings. The phone provides a simple user experience in a streamlined design, serving as your single interface for video conferencing and screen sharing.

### Dolby Voice

The Dolby Voice experience gives people in rooms, at their desks, or on their mobile phones impressively clear audio—actively overcoming common conferencing challenges such as disparate speaking volumes, room size, room acoustics, garbled voices, and background noise. Plus, Dolby Voice audio processing is integrated seamlessly into provider services and apps.

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## DOLBY VOICE HUB FEATURES

The Dolby Voice Hub is Dolby Voice Room's dedicated conferencing platform—integrating with leading service providers and bringing Dolby Voice Room's advanced video features to life.
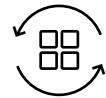
### Integrate with service providers

The fully integrated and immersive service provider experience built with Dolby Voice Room's application ecosystem and SDK delivers an elegant and intuitive user experience that supports more use cases with fewer required room devices, and that allows participants to join, engage, and share content with fewer button touches.

### Security

Dolby Voice Room's system security is designed so that both software and hardware are secure across all core components of every Dolby Voice Room. This includes the boot-up process, software updates and remote access control. The tight integration of hardware, software, and provider services ensures that each component of the system is trusted, validated and hardened.

### Setup and configurations

Dolby Voice Hub and the connections to the camera and phone epitomize "plug-and-play," and the hub includes a flexible mounting system that enables hardware components to be installed in multiple configurations.

### Development

Dolby Voice Hub provides a superior platform for application development and provider services, ensuring that customers have an exceptional meeting experience aligned with their service provider of choice.
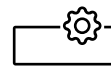
### Dolby Voice Room software

The hub runs Dolby Voice Room software—handling system functions, managing multiple user interfaces, and automatically updating camera and phone firmware and software.
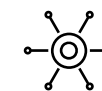
### Ports and connectivity

- Gigabit Ethernet
- Power over Ethernet (PoE) port for connecting to the Dolby Conference Phone
- Three Universal Serial Bus (USB) 3.0 ports for connecting to the Dolby Voice Camera and  to a keyboard for diagnostics
- Two display ports for connecting to up to two TVs, and one display port for connecting to a computer for content sharing
- USB OTG 3.0 port for future use

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## DOLBY VOICE ROOM SERVICE PROVIDERS

Get the breakthrough Dolby Voice Room experience with these Dolby Voice Room service provider partners.

### BlueJeans

Best-in-class video. Brilliantly clear audio. Outstanding ease-of-use. BlueJeans supports Dolby Voice Room for exceptional collaboration.

**FIND OUT MORE ›**

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## ROOM SETUP

Dolby Voice Room's superior component technology and flexible installation configurations make it the perfect choice for a range of meeting spaces, from small huddle rooms to medium-sized conference rooms.



95°

**7' x 9' ROOM**
1:20 scale
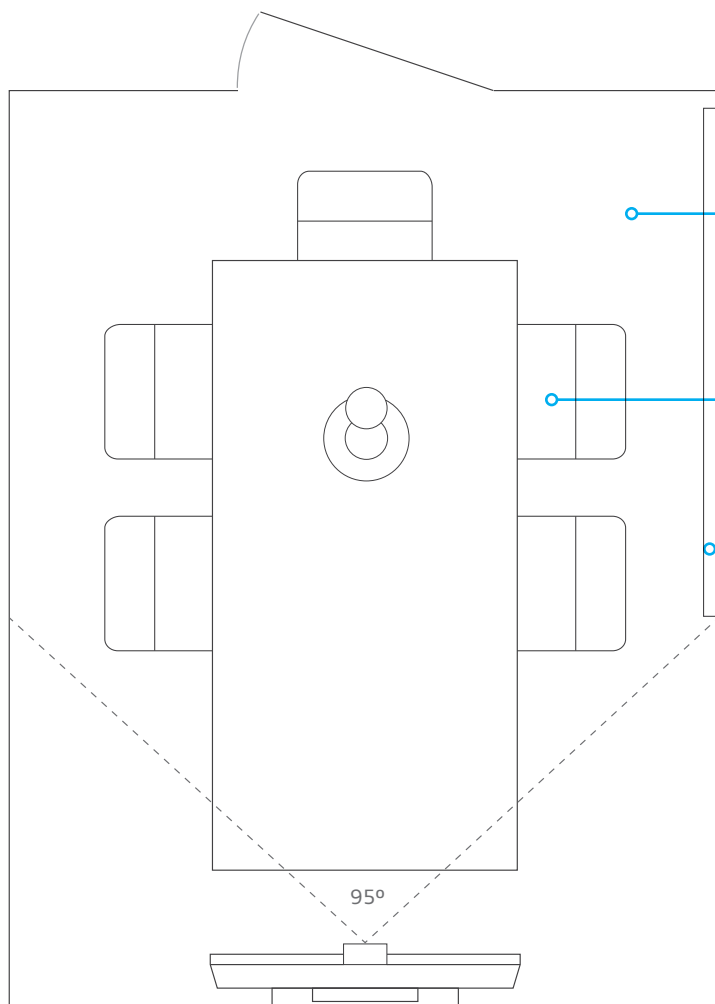
### Room size
With unparalleled video and audio processing; a 4K HD, 95° view-angle camera; and a 20-foot microphone range, Dolby Voice Room flexes from small 7' x 9' huddle rooms to medium-size 15' x 20' conference rooms.

### Number of people
Dolby Voice Room is ideal for up to 8 people.

### Whiteboard placement
With whiteboard view, if it's in view, then it's on-screen. Easily reset and resize the viewable area of the board to meet your needs.

### Your room steup
For guidance and answers to your unique room setup requirements, contact us at the link below:

**SETUP SUPPORT ›**

## Contents

**COMPONENTS
SETUP**

Satellite
microphone

Satellite
microphone

**BACK OF PHONE**

Kensington®
Lock

To Phone

Peripheral
Mode

Reset /
Turn Off

**BACK OF HUB**

From PC        To Display        To Camera        To Network        Power

**BACK OF CAMERA**
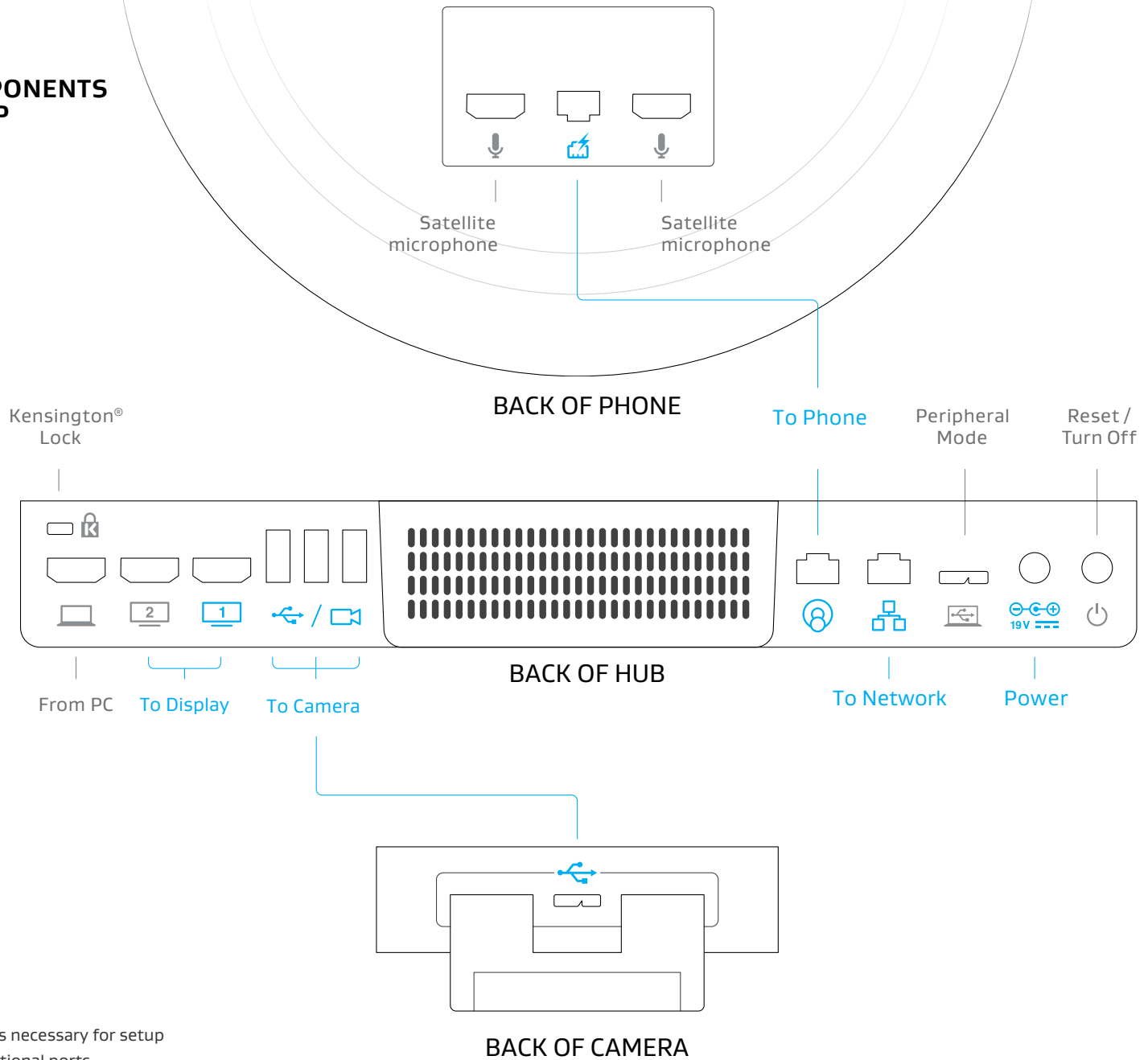
■ Ports necessary for setup
■ Additional ports

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# TECHNICAL FEATURES AND SPECIFICATIONS

### Dolby Voice Camera

- Image sensor: 4K, 13
- Resolution: 1080p30 H.264 (1920x1080)
- Frame rate: ≤60 fps (frames per second)
- View angle: 95°
- Lens: fixed focus f/2.0
- Zoom: ≤2x digital zoom
- Output format: YUV422
- Connectivity: USB 3.0
- Mounting: tilt range +/- 20°
- HDR video mapping
- Intelligent scene framing

### Video

- Codecs: H.264 Baseline and High Profile
- Encode: two 1080p30 streams
- Decode: two 1080p30 streams

### Dolby Conference Phone

- Operating Modes: Dolby Voice, IP phone
- Service provider integration: IP connection and preconfigured access to Dolby Voice enabled conferencing services
- Touch-screen meeting management:
  - One-touch meeting start with Bluetooth Low Energy (BLE) connection on supported partner apps
  - Viewable roster of meeting attendees and active speaker, add/remove participants
  - Contact directory with one-touch dialing
  - Mute/unmute, three-way conferencing, conferencing join/ split/hold/resume, call waiting, call history
- Broad interoperability. For details, visit dolby.com/interop
- Communication protocols: IETF SIP (RFC 3261 and companion RFCs)

### Dolby Conference Phone (cont)

- Audio features: full duplex, noise suppression, acoustic echo cancellation, voice placement
- Audio codecs: DVC/G.711a/G.711u/G.722/G.729ab/iLBC
- Audio range: Wideband HD, 160 Hz—8 kHz
- Microphone range: 6.1 m (20 ft)
- Peak volume: 88 dB SPL at 1/2 meter (1.6 ft)

### Dolby Voice Hub

- OS: Linux
- Monitor support: Dual (x2) display out ports
- Content sharing: Display in port—local/broadcast and wireless sharing through partner apps
- USB: USB 3.0 host ports (x3), USB 3.0 device port
- Network: 10/100 Mb (RJ-45) network interface, 10/100 Mb (RJ-45) POE 802.3af network interface
- Additional: power port, security lock

### Network provisioning

- IP address configuration: TCP/IP (IPv4), DHCP/static IP
- Web: HTTP/HTTPS web server, web proxy auto-detection and proxy auto-configuration
- Support, WebRTC
- Time and date synchronization: SNTP
- VLAN support: Dolby Voice and IP telephony calls on separate voice and data VLANs
- QoS support: IEEE 802.1p/Q tagging (VLAN), Layer 3 TOS and DSCP
- RTCP support: (RFC 1889)
- LDAP directory support
- Plug-and-play provisioning enabled by Dolby Voice Console cloud provisioning service

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## TECHNICAL FEATURES AND SPECIFICATIONS (CONT)

### Security
· Encryption: TLS (Transport Layer Security) for SIP, SRTP
  encryption for media, 128 bits AES
· Network Access Control: IEEE 802.1x
· Built-in certificate

### Development
· Hub: Chromium Web App SDK
· Phone: Conferencing Service Application SDK

### Operating requirements and specifications
· External power adapter: 90-240v AC input
· Power consumption: Idle <2.8W, normal operating—
  24w; max—30w
· Operating humidity: 20–85% (non-condensing)
· Operating temperature: 0°–40° C (32°–104° F)
· Storage temperature: -30–50° C (-22°–122° F)

### Hardware dimensions (H x W x D)
· Camera + mount: 6.2 x 13 x 9.6 cm (2.4" x 5.1" x 3.8")
· Phone: 5.6 x 30 x 32 cm (2.2" x 11.8" x 12.6")
· Hub: 4 x 31.6 x 11 cm (1.6" x 12.4" x 4.3")

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## DOLBY® CONFERENCING CONSOLE

The endpoint management tool of Dolby Voice Room, Dolby Conferencing Console administers, supports, and updates Dolby Voice Room deployments, usage, and users. Plus, it's included with Dolby Voice Room, a significant value versus competitor offerings.
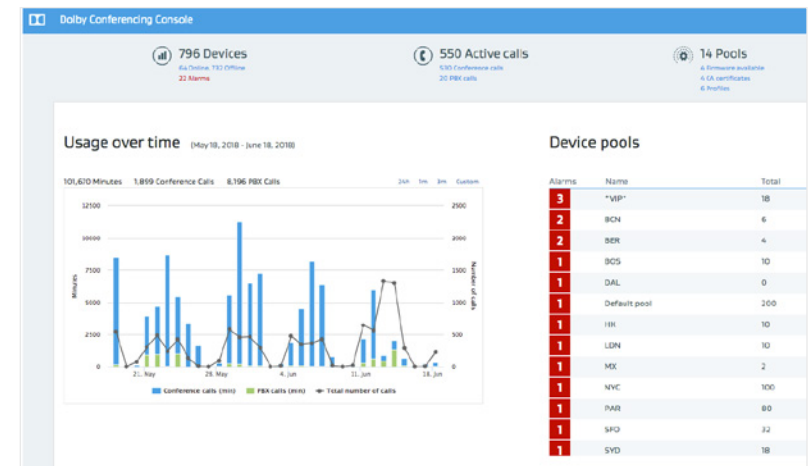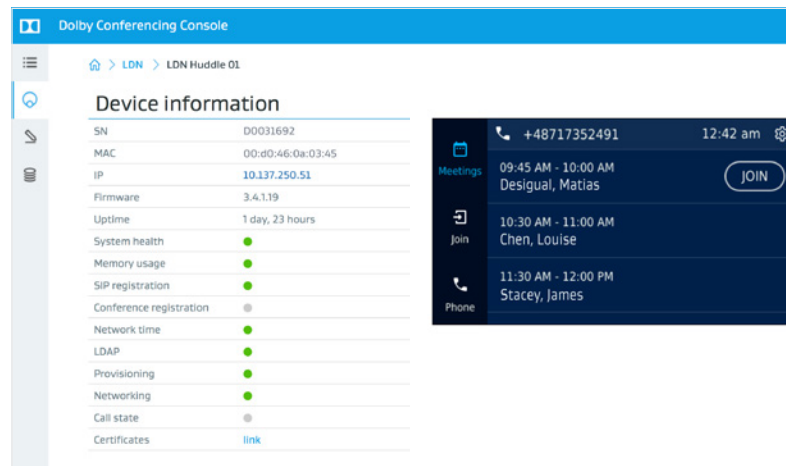




### Provisioning and updates
Provision and update your company-wide Dolby Voice Room installations and component hardware and software using device pools and profiles.

### Monitoring and diagnostics
View Dolby Voice Room status in real time, troubleshoot problems, and access devices remotely, expediting issue resolution.

### Data and analytics
Access and review system, pool, and device-level usage data—including both IP PBX and Dolby Voice minutes, detailed status updates for all deployments, call detail records (CDRs), and network statistics—and search for devices by serial number, assigned name, MAC address, or IP address. Easily export data with RESTful API and SNMP V2 support for integration with management and business intelligence solutions.

### Secure platform
Dolby Conferencing Console ensures a secure platform, including provisioning, user roles and rights management, access control, pool-level authentication, password management, and virtual appliance hardening.

### Web portal
Remotely access Dolby Conferencing Console via desktop browser or mobile app.

### Service provider integration
An SDK is available for managed service providers.

# DOLBY

## V O I C E

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## DOLBY CONFERENCING CONSOLE PRODUCT SPECS

### Application and capacity

Dolby Conferencing Console server software is distributed as an Open Virtual Appliance (OVA) for up to 500 Dolby Voice Room deployments and in RPM format for more than 500 Dolby Voice Room deployments.

With OVA virtual appliance installation, the Dolby Conferencing Console supports up to 500 Dolby Voice Rooms per server instance. With RPM installation, the Dolby Conferencing Console supports up to 10,000 Dolby Voice Rooms in a multiserver configuration.

### Database server

Supports PostgreSQL database and high-availability configuration scenarios

### Deployment model

On-premise and cloud-based

### Localization

Web UI: English language

## SYSTEM REQUIREMENTS

### Hardware

- Dual-core 64-bit Intel®-compatible CPU, 2.2 GHz or higher
- 8 GB RAM
- 250 GB hard disk
- 1 Gbps Ethernet interface

### Virtual appliance environment

- Dual-core 64-bit Intel-compatible CPU, 2.2 GHz or higher
- 8 GB RAM
- 250 GB hard disk
- 1 Gbps Ethernet interface

### Server software

Dolby Conferencing Console also can be installed as RPM packages on these Linux® operating systems:
- CentOS™ 6.0
- Red Hat® Enterprise Linux 6

### Web client requirements

- Microsoft® Internet Explorer® 11 or later on Windows® platform-based computers
- Google Chrome™ 36 or later
- Apple® Safari® 8 or later on Apple computers

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# RESOURCES AND CONTACT

### About Dolby Voice®

**Case studies**
Explore these case studies to learn more about what our breakthrough experience has done for the small, medium-size, and global businesses that have chosen Dolby Voice Room products and services.

**EXPLORE CASE STUDIES ›**

**Dolby Voice in the news**
Visit our central resource for all Dolby Voice Room news.

**READ THE LATEST NEWS ›**

### Dolby Conferencing Partners

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### Support and documentation

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