Polycom® SoundPoint® IP 450

Desktop phones featuring legendary Polycom HD Voice and productivity enhancing applications

The SoundPoint IP 450 desktop phone is designed to bring advanced telephony features and applications to cubicle/office workers handling a moderate volume of calls. With its high-resolution, graphical backlit display supporting multiple languages and Asian characters, applications enabled XML Microbrowser, and Polycom HD Voice, the SoundPoint IP 450 sets new standards for the mid-range SIP desktop phone.

Unsurpassed voice quality and clarity

The SoundPoint IP 450 features Polycom HD Voice, bringing life-like richness and clarity to every call. Polycom HD Voice incorporates wideband audio for over twice the voice clarity, Polycom's patented Acoustic Clarity Technology for crystal-clear, noise and echo-free sound, plus best-in-class system design for high-fidelity voice reproduction.

Easy-to-use features and applications

An enterprise-grade phone, the SoundPoint IP 450 delivers an easy-to-navigate menu and a combination of 17 dedicated hard keys and four content sensitive soft keys on a backlit, multi-level grayscale 256 x 116 pixel LCD display. Hosting a built-in XML Microbrowser, the SoundPoint IP 450 offers an easy- to-access graphical interface to run productivity-enhancing third-party applications using Polycom's flexible and open XML API.

Make great things happen with Polycom SoundPoint IP 450

In today's Internet driven world, the ability to conduct real time communication and collaboration has become critical to an organizations survival. As the market leader in voice, video, data and Web solutions, our award-winning IP telephony and conference technology makes it easy for people to interact and maximize productivity over any network, in just about any environment, anywhere around the globe. That's why more organizations worldwide use and prefer Polycom IP telephony and application solutions. Because when people work together, great things happen. See how you, too, can achieve great things with the Polycom SoundPoint IP 450 desktop phone.

Benefits

- **Polycom HD Voice** – Unparalleled voice clarity to make your calls more efficient and productive

- **High-quality display** – High-resolution graphical 256 x 116 pixel grayscale LCD with adjustable backlighting, applications and Asian character support

- **Applications enabled** – Built-in XML Microbrowser to run Polycom Productivity Suite and open API for productivity-enhancing third-party applications

- **Broad and robust interoperability** – Certified to interoperate with a broad array of SIP call control platforms to enable open choices and innovations while simplifying provisioning, management, and support

Product Specifications

Lines (directory numbers)
- Up to 3 lines with up to 8 concurrent calls per line

Display
- 256 x 116 pixel backlit grayscale graphical LCD
- LED backlight with custom intensity control
- Message Waiting Indicator (MWI) LED

Feature keys
- 4 context-sensitive "soft" keys
- 17 dedicated "hard" keys
- 3 line keys with bi-color (red/green) LED
- 3 feature keys
- 5 display/menu navigation keys
- 2 volume control keys
- Mute, headset and hands-free speakerphone keys
- Dedicated hold key

Headset and hearing aid compatibility
- Dedicated RJ-9 headset port
- Amplified headsets are recommended
- Compliant with ADA Section 508 Recommendations: Subpart B 1194.23 (all)
- Hearing Aid Compatible (HAC) handset for magnetic coupling to approved HAC hearing aids
- Compatible with commercially-available TTY adapter equipment

Audio features
- Polycom HD Voice technology delivers life-like voice quality for each audio path - the handset, the hands-free speakerphone, and the optional headset[1]
- Full-duplex hands-free speakerphone
- Type 1 compliant with IEEE 1329 full duplex standards
- Frequency response - 150Hz - 7kHz for handset, optional headset[1] and hands-free speakerphone modes
- Codecs: G.722 (wideband), G.711 µ/A, G.729A (Annex B) and iLBC
- Individual volume settings with visual feedback for each audio path
- Voice activity detection
- Comfort noise fill
- DTMF tone generation/DTMF event RTP payload
- Low-delay audio packet transmission
- Adaptive jitter buffers
- Packet loss concealment
- Acoustic echo cancellation
- Background noise suppression

Call handling features[2]
- Shared call/bridged line appearance
- Flexible line appearance (one or more line keys can be assigned for each line extension)
- Busy Lamp Field (BLF)
- Distinctive incoming call treatment/ call waiting
- Call timer
- Call transfer, hold, divert (forward), pickup
- Called, calling, connected party information
- Local three-way conferencing
- One-touch speed dial, redial
- Call waiting
- Remote missed call notification
- Intercom
- Automatic off-hook call placement
- Do not disturb function

Other features
- Integration with Microsoft LCS 2005 for telephone and presence[3]
- Compatibility with Microsoft Office Communicator and Windows® Messenger 5.1 Clients
- Enabled for Polycom Productivity Suite
- Local feature-rich GUI
- Time and date display
- User-configurable contact directory and call history (missed, placed, and received)
- Customizable call progress tones
- Wave file support for call progress tones
- Unicode UTF-8 character support. Multilingual user interface encompassing Chinese, Danish, Dutch, English (Canada/US/UK), French, German, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Russian, Slovenian, Spanish, Swedish

Protocol support
- IETF SIP (RFC 3261 and companion RFCs)

Network and provisioning
- Two-port Ethernet Switch
- 10/100Base-TX across LAN and PC ports
- Manual or dynamic host configuration protocol (DHCP) network setup
- Time and date synchronization using SNTP
- FTP/TFTP/HTTP/HTTPS4 server-based central provisioning for mass deployments
- Provisioning and call server redundancy supported
- Web portal for individual unit configuration
- QoS Support – IEEE 802.1p/Q tagging (VLAN), Layer 3 TOS, and DSCP
- Network Address Translation (NAT) support – static
- RTCP support (RFC 1889)
- Event logging
- Local digit map
- Hardware diagnostics
- Status and statistics

Security[2]
- Transport Layer Security (TLS)[3]
- Secure Real-time Transport Protocol (SRTP)
- Shipped with X.509 certificate installed
- Encrypted configuration files[3]
- Digest authentication
- Password login
- Support for URL syntax with password for boot server[4]
- HTTPS secure provisioning[4]
- Support for signed software executables[4]

Power
- Built-in, auto-sensing IEEE 802.3af Power over Ethernet (Class 2)
- External Universal AC adapter (24VDC/12W)[5]

Approvals
- FCC Part 15 (CFR 47) Class B
- ICES-003 Class B
- EN55022 Class B
- CISPR22 Class B
- AS/NZS CISPR 22 Class B
- VCCI Class B
- EN55024
- EN61000-3-2; EN61000-3-3
- NZ Telepermit
- ROHS compliant
- GOST-R

Safety
- UL 60950-1
- CE Mark
- CAN/CSA-C22.2 No. 60950-1-03
- EN 60950-1
- IEC 60950-1
- AS/NZS 60950-1

Operating conditions
- Temperature: 0 to 40°C (+32 to 104°F)
- Relative Humidity: 5% to 95%, noncondensing

Storage temperature
- -40 to +70°C (-40 to +160°F)

SoundPoint IP 450 comes with:

- SoundPoint IP 450 console
- Handset with handset cord
- Base stand
- Network (LAN) cable
- Universal Power Adapter (including country specific cord kit)[5]
- Quick Start Guide
- Product registration card

Size

- 8.5 x 6 x 6.5 in x 2.5 in (21.5 x 15 x 16.5 x 6.5 cm) (W x H x D x T)

Part numbers/UPC codes

- 2200-12450-001/610807687887 for NA. TWN
- 2200-12450-002/610807690214 for Japan
- 2200-12450-012/610807690221for AU, NZ
- 2200-12450-015/610807690238 for UK, HK, Singapore and Malaysia
- 2200-12450-016/610807691396 for Korea
- 2200-12450-022/610807691396 for China
- 2200-12450-122/610807690245 for ROE
- 2200-12450-025/610807687894 PoE version for worldwide

Box dimensions/weight

- 12.5 x 13.25 x 3.5 in (31.75 x 33.5 x 9 cm) (L x W x H)
- Unit weight – 2.4 lbs (1.1 kg)
- 4.4 lbs (2.0 kg) – includes all packaging material

Master carton quantity

- Five

Country of Origin

- Thailand

Warranty

- One year

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1. To enjoy all the benefits of Polycom HD Voice when using the phone in the headset mode, you must use a wideband headset.

2. Most software-enabled features and capabilities must be supported by the server, Please contact your IP PBX/Softswitch vendor or service provider for a list of supported features.

3. Requires SIP version 3.1.0 Rev C or higher.

4. Requires BootROM version 4.1.2 or higher.

5. Universal power adapter not included in the PoE version (P/N: 2200-12450-025)

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About Polycom

Polycom is the global leader in standards-based unified communications (UC) solutions for telepresence, video, and voice powered by the Polycom® RealPresence® Platform. The RealPresence Platform interoperates with the broadest range of business, mobile, and social applications and devices. More than 400,000 organizations trust Polycom solutions to collaborate and meet face-to-face from any location for more productive and effective engagement with colleagues, partners, customers, specialists, and prospects. Polycom, together with its broad partner ecosystem, provides customers with the best TCO, scalability, and security for video collaboration, whether on-premises, hosted, or cloud-delivered. Visit *www.polycom.com* or connect with Polycom on Twitter, Facebook, and LinkedIn.

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1.800.POLYCOM
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