



# SpectraLink 8400 Series Product Specifications



SpectraLink 8440 Face



SpectraLink 8450 Face



SpectraLink 8440 and 8450 Rear

The Polycom® SpectraLink® 8400 VoWLAN series handsets deliver on a fundamental need for enterprise-grade on-site voice mobility. Characterized by market-leading Polycom HD Voice™ quality, durability, and broad telephony and WLAN interoperability, SpectraLink 8400 handsets deliver a reliable user experience and predictable return on investment.

The SpectraLink 8400 series enhances the customer value proposition through an optional integrated barcode scanner and an enhanced standards-based applications interface. In partnership with the Polycom applications development ecosystem, the SpectraLink 8400 product toolset enables new opportunities for end-user productivity solutions.

## Physical Characteristics

Durability and Performance

### Display:

- 2.2-inch 240 x 320 resolution
- 65,000 color palette

### Buttons:

- Four (4) context-sensitive softkey buttons
- Dedicated Push-to-Talk
- Five-way navigation and select control
- Home & back navigation keys
- Up/Down volume control
- Barcode reader (8450 handset)
- Start and End Keys

### Status LED

- Message (voicemail) waiting
- Out of coverage
- Phone ringing

### Peripheral Interfaces

- Micro USB interface for wall charging and configuration
- 2.5mm TRS connector for wired headset
- Bluetooth

**Batteries**

- Two easy-access cosmetic battery capacity options
- Standard – Up to 8 hrs talk time, 80hrs standby time
- Enhanced – Up to 12 hrs talk time, 120hrs standby time

**Durability**

- Drop/shock: MIL STD 810F, method 516.5 procedure VI
- Ingress protection standard IP-64 per IEC 60529
- Rubberized molding
- Magnesium LCD mounting

**Environmental**

- Operational temperature: 32F to 104F (0 to 40C)
- Storage temperature: -22 to 140F (-30 to 60C)

**Dimensions & weight**

	SpectraLink 8440	SpectraLink 8450
Dimensions	147mm by 53mm by 25mm	147mm by 53mm by 28mm
Weight	5.6 oz	6.2 oz

**Wireless Networking**

**Wi-Fi**

Band	Frequency	Data Rates
802.11a	5.15 - 5.25 GHz 5.25 - 5.35 GHz 5.47 - 5.725 GHz 5.725 - 5.825 GHz	6, 9, 12, 18, 24, 36, 48, 54 Mbps
802.11b	2.4 - 2.4835 GHz	1, 2, 5.5, 11 Mbps
802.11g	2.4 - 2.4835 GHz	6, 9, 12, 18, 24, 36, 48, 54 Mbps
802.11n*	2.4 & 5 GHz	21.7, 43.3, 65, 72.2 Mbps

2.4GHz and 5GHz dynamic band roaming supported  
\*Single-stream, 20MHz channel with SGI

**Bluetooth**

- Version 2.1, HSP Version 1.2
- Class 1 support with range of ~10 meters

**Telephony Features**

Rich call server feature integration and native Push-to-Talk

**Call Handling Features\***

- Up to 6 telephone line appearances
- Call Hold/Resume function
- Last Call Return
- Music on Hold
- Consultation Hold
- Call Transfer (Attended, Unattended)
- Overlap dialing
- Bridged Line Appearance (BLA)
- Three-Way Conferencing (local)
- Find-Me call forking
- Call Screening (Incoming, outgoing)
- Automatic Answer
- Call Park & Retrieve
- Group Call Pickup
- Call Waiting
- Multiple Calls per Line
- Do Not Disturb
- Calling party ID (name and number)
- Called party ID (name and number)
- Connected party ID (name and number)
- Call Forward (Busy, No answer, Unconditional)
- Call Reject

\*Summary only – actual feature support will vary among call platforms

**Codecs**

- G.711 (a-law, u-law), G.729, G.722 , G.722.1

**Push-to-Talk (PTT)/Paging**

- On-board native ‘walkie-talkie’ capability
- One-to-one, one-to-many broadcast communication
- 24 configurable channels
- Priority, default channel

**Additional Telephony Features**

- RTCP (RFC3550, 1889)
- Call server redundancy
- Predictive dialing from contacts list
- Recent call lists

## Management

Ease of Provisioning, Performance and Fault Management

### Provisioning

- Server based central provisioning via FTP, TFTP, HTTP or HTTPs
- Centralized user administration
- Provisioning and call server redundancy
- Initial configuration via USB
- Unicode UTF-8 Multilingual User Interface

### Performance and Fault Management

- On-board site survey and diagnostics tools
- Enhanced syslog reporting
- Roaming and handoff reporting
- Event logging
- Hardware diagnostics
- Status and status reporting
- PING support (initiate and response)
- Traceroute

### Configuration Management

- User and administrator login and privileges
- PC-connected (USB) and remote over-the-air configuration management

## Applications Tools

Feature rich data applications interface options

### Polycom XML Applications Program Interface

- Standards-based XHTML API
- On-board WebKit-based browser (JavaScript, CSS, DOM) for rich applications integration
- Bundled with Polycom Productivity Suite for Corporate Directory access using LDAP and Voice Quality Monitoring

### Polycom Open Application Interface (OAI)

- Backward compatibility with SpectraLink OAI applications

### Instant Messaging

- Handset-to-handset, PC client-to-handset IM support via Microsoft OCS 2007 R2 Instant Messaging

### Real Time Location Services (RTLS)

- Embedded RTLS beacon (Ekahau) for location tracking

### Calendar - Exchange Server Integration

- Day and month view
- Meeting reminders

## Performance

Industry leading voice and call quality

### Audio quality

- TIA 810B, TIA 920 audio quality standards
- Full-duplex audio (compliant with IEEE 1329 full duplex standards)
- Voice activity detection (VAD)
- Comfort noise fill
- Adaptive jitter buffer & packet loss concealment
- Acoustic echo cancellation & background noise suppression

### Quality of Service (QoS)

- WMM (Wi-Fi Multimedia)
- WMM-Power Save, WMM-Admission Control (draft)
- IEEE 802.1p/Q tagging (VLAN)/DSCP tagging

### Security

- WEP, WPA-Personal, WPA2-Personal, WPA2-Enterprise with 802.1X (EAP-FAST, PEAP-MSCHAPv2) with Opportunistic Key Caching (OKC) and Cisco Client Key Management (CCKM)
- Media encryption via Secure Real-Time Protocol (SRTP)
- SIP signaling encryption via Transport Layer Security (TLS)
- Server-based configuration file encryption (AES 128bit)
- HTTPS secure provisioning
- Support for signed software executables

## Networking

Strong support for Networking Standards

- Address assignment via Manual or Dynamic host configuration protocol (DHCP)
- Domain name resolution via Domain Name Service (DNS)
- Time and date synchronization using Simple Network Time Protocol (SNTP)
- Lightweight Directory Access Protocol (LDAP) for directory lookup and download
- IEEE 802.1p/Q tagging (VLAN)/DSCP tagging

## Data Capture Specifications

High-performance scanning

### 1D CMOS Linear Imager

Feature	Specification
Light Source	617 nm Highly Visible LED
Scan Rate	Up to 500 scans/s
Scan Angle	38°
Label print contrast	Down to 25%
Min. label x. dimension	0.15mm (6 mils)
Reading distance	Up to 40cm (16in.)

### Barcode Symbolologies

RSS, Stacked RSS, RSS-14, GS1-DataBar, Code 39, Code 93, Code 128, UPC (E&A)

*Note: 2D area imager solution available at a later date*

## Usability

Intuitive and user-friendly

### User Profiles

- Downloadable to any handset with ID and Login

### Additional

- Intuitive Graphical User Interface
- Selectable wallpaper/background
- Adjustable display brightness
- Backlit keypad with adjustable timeout period
- Ten (10) selectable ring tones
- Ten (10) selectable alert tones
- Multiple vibrate cadence options
- Vibrate-to-ring options
- Audible and vibrate notification options
- Speed dial menu list
- Contacts directory with support for 1000 local entries
- Call logs - Minimum of 20 logged entries for each call type (Incoming, dialed, and missed)
- Emergency system-wide speed dial
- Auto-answer & any key answer capability
- Selectable ring tones

## Accessories

Accessories that deliver mobile communication solutions to the Enterprise

### Speakerphone dock

- Docking base provides full-duplex HD Voice speakerphone and charging
- Ideal for small group conference settings
- Suitable for replacement of a wired set
- Includes on-board mute, volume and speakerphone controls
- Wired headset options
- Spare battery charging slot with LED charge status indicator



### Dual Charger

- Ideal for desktop use to augment or replace a wired desktop phone
- Provides desktop handset and spare battery charging
- LED charge status indicator



### Quad Charger

- Charging for up to 4 spare battery packs simultaneously
- Ideal for shift-work environments and highly-mobile users
- Designed for tabletop or wall-mounting



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