Setting up the Polycom® HDX® Ceiling Microphone Array

- If you are setting up a Polycom HDX Ceiling Microphone Array, begin on page 2.
- If you are setting up a Polycom HDX Ceiling Microphone Array Extension Kit, begin on page 8.
- If you are setting up a Polycom RPX™, OTX™, or ATX™ telepresence system, refer to the RPX or OTX Installation Guide or ATX Integrator’s Guide.

Before you begin, make sure that your ceiling can support up to 2 lbs (.9 kg). Also, verify that the installation parameters described in this document comply with the code requirements in your local jurisdiction.
Setting up the Polycom HDX Ceiling Microphone Array

2’ (.6 m)  
18” (.5 m) RJ-45 to Walta connector adapter  
10’ (3.1 m) non-plenum straight-through (use between wall plate and codec only; do not use for any other application)  
50’ (15.2 m) plenum crossover (use between electronics enclosure and codec, between electronics enclosure and wall plate, or between two electronics enclosures)

Notes:
• If your ceiling is 10 feet (3.05 m) or higher, you should order an optional 6-foot (1.82 m) drop cable (part number 2215-09591-002 for black or 2215-09591-001 for white) for each Ceiling Microphone Array.
• If you are creating your own cables, refer to the Integrator’s Reference Manual for your product for cable pin-outs. You can find this document at http://support.polycom.com.

NOTE: Verify that the number of pins on the cable connector matches the number of pins on the connector on the electronics enclosure.

If you do not have a suspended ceiling in your room, continue with Step 12 on page 5.

For suspended ceilings

If height adjustments are required for the microphone ball, clip the cable clip onto the cable. When you later place the electronics enclosure on the ceiling tile, you can rest the clip above the hole in the ceiling tile and adjust the length of the cable as needed.
For suspended ceilings (continued)

3

4

5

6

7 Optional

For added safety when removing the ceiling tile at a later time, securely attach the electronics enclosure to the ceiling supports using suitable wire or other hardware appropriate for your ceiling type and in accordance with local regulations. Be sure that the length of wire you use to secure the electronics enclosure is short enough to prevent the enclosure from striking the person removing the ceiling tile.
For suspended ceilings (continued)

8

9

10

11
To attach the electronics enclosure, use suitable hardware for your ceiling type. Align the enclosure so that, when the Microphone Array is attached, the dot on the Microphone Array points toward the main display, as shown in Step 16 on page 6.

Point the dot (located on the band around the middle of the microphone ball) toward the main display.
16 For the Polycom RealPresence Group Series 300, 500, and 700

16 For the Polycom HDX 8000, Polycom HDX 7000, and Polycom HDX 6000

16 For the Polycom HDX 9000 Series

16 For the Polycom HDX 4000 Systems

Setting up the Polycom HDX Ceiling Microphone Array
### Setting up the Polycom HDX Ceiling Microphone Array

#### For Polycom RealPresence Group Series Systems and HDX Systems

<table>
<thead>
<tr>
<th>System</th>
<th>Maximum Number of Digital Microphone Arrays</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polycom RealPresence Group Series 300</td>
<td>Two</td>
</tr>
<tr>
<td>Polycom RealPresence Group Series 500</td>
<td>Two</td>
</tr>
<tr>
<td>Polycom RealPresence Group Series 700</td>
<td>Three</td>
</tr>
<tr>
<td>Polycom HDX 9000 Series</td>
<td>Four</td>
</tr>
<tr>
<td>Polycom HDX 8000 Series</td>
<td>Three</td>
</tr>
<tr>
<td>Polycom HDX 7000 Series</td>
<td>Two</td>
</tr>
<tr>
<td>Polycom HDX 6000</td>
<td>One</td>
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<tr>
<td>Polycom HDX 4000 Series</td>
<td>Three</td>
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#### For Polycom SoundStructure C-Series Systems

<table>
<thead>
<tr>
<th>System</th>
<th>Maximum Number of Fully Configured Ceiling Microphone Arrays</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polycom SoundStructure C12 and C16</td>
<td>Four</td>
</tr>
<tr>
<td>Polycom SoundStructure C8</td>
<td>Two</td>
</tr>
</tbody>
</table>

If you plan to install another Ceiling Microphone Array in the same room, refer to Setting up the Polycom HDX Ceiling Microphone Array Extension Kit on page 8.


For information about optimally placing the microphones to send stereo audio for Polycom HDX Systems, refer to the Administrator’s Guide for Polycom HDX Systems, available at [http://support.polycom.com](http://support.polycom.com).
Setting up the Polycom HDX Ceiling Microphone Array Extension Kit

<table>
<thead>
<tr>
<th>2' (.6 m)</th>
<th>25' (7.6 m) plenum crossover (use between two electronics enclosures)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Second 25' (7.6 m) plenum crossover (use between second and third electronics enclosures for TPX HD 306M, Version 2.0 and later only)</td>
<td></td>
</tr>
</tbody>
</table>

Notes:
- If your ceiling is 10 feet (3.05 m) or higher, you should order an optional 6-foot (1.82 m) drop cable (part number 2215-09591-002 for black or 2215-09591-001 for white) for each Ceiling Microphone Array.
- If you are creating your own cables, refer to the Integrator's Reference Manual for your product for cable pin-outs. You can find this document at http://support.polycom.com.

NOTE: Verify that the number of pins on the cable connector matches the number of pins on the connector on the electronics enclosure.

If you do not have a suspended ceiling in your room, continue with Step 9 on page 10.

For suspended ceilings

If height adjustments are required for the microphone ball, clip the cable clip onto the cable. When you later place the electronics enclosure on the ceiling tile, you can rest the clip above the hole in the ceiling tile and adjust the length of the cable as needed.
For added safety when removing the ceiling tile at a later time, securely attach the electronics enclosure to the ceiling supports using suitable wire or other hardware appropriate for your ceiling type and in accordance with local regulations. Be sure that the length of wire you use to secure the electronics enclosure is short enough to prevent the enclosure from striking the person removing the ceiling tile.
For suspended ceilings (continued)

8

25' (7.6 m)

(Do not use the non-plenum straight-through 10' (3.1 m) cable)

For all ceilings

10

For ceilings that are not suspended

9

To attach the electronics enclosure, use suitable hardware for your ceiling type. Align the enclosure so that, when the Microphone Array is attached, the dot on the Microphone Array points toward the main display as shown in Step 11 on this page.

11

Point the dot (located on the band around the middle of the microphone ball) toward the main display.
