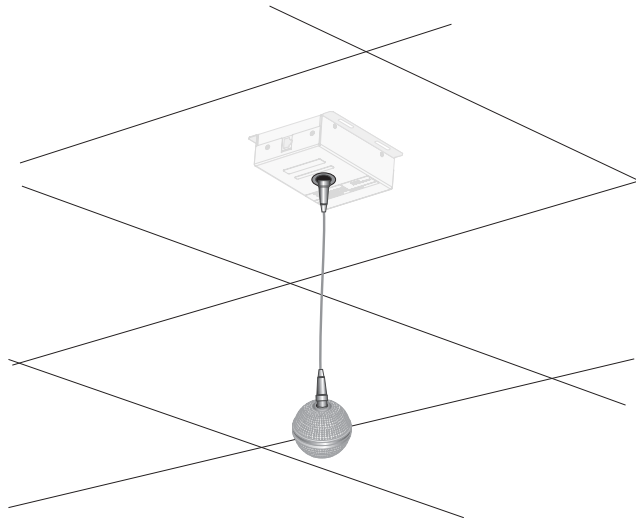




## Setting Up the Polycom® HDX™ Ceiling Microphone Array Series



- If you are setting up a Polycom HDX Ceiling Microphone Array with a Polycom HDX system, begin on page 2.
- If you are setting up a Polycom HDX Ceiling Microphone Array with a Polycom SoundStructure™ C-Series system, begin on page 8.
- If you are setting up a Polycom HDX Ceiling Microphone Array Extension Kit with a Polycom HDX or SoundStructure C-Series, begin on page 13.
- If you are setting up a Polycom RPX™ or TPX® telepresence system, refer to the *RPX* or *TPX* *Installation 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.

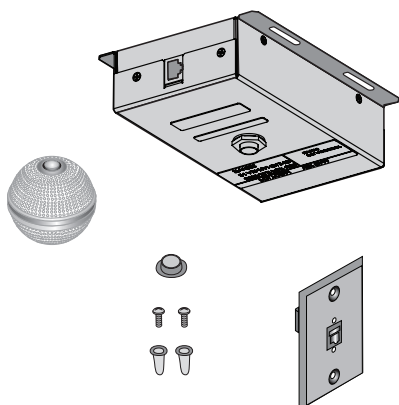
[www.polycom.com](http://www.polycom.com)

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January 2010  
1725-27017-005/A



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



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 Polycom HDX Systems* for cable pin-outs. You can find this document at [www.polycom.com/videodocumentation](http://www.polycom.com/videodocumentation).

1

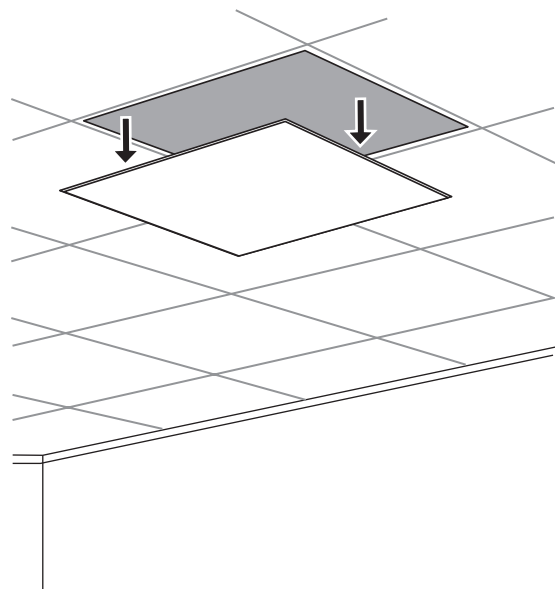


NOTE: Verify that the number of pins on the cable connector matches the number of pins on the connector on the electronics enclosure.

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

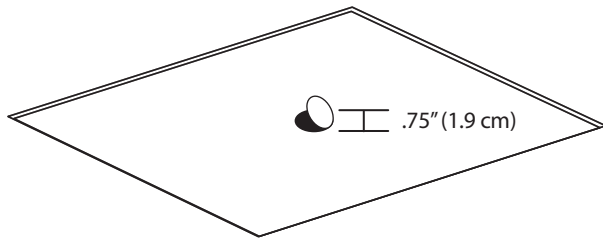
For suspended ceilings

2

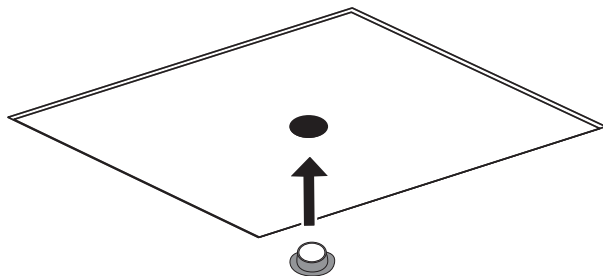


## For suspended ceilings (continued)

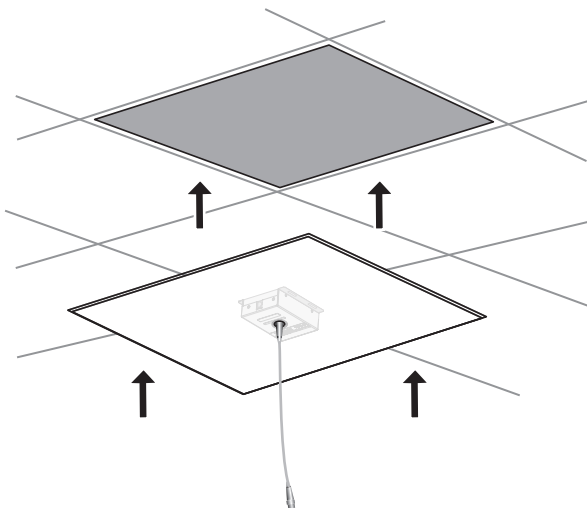
**3**



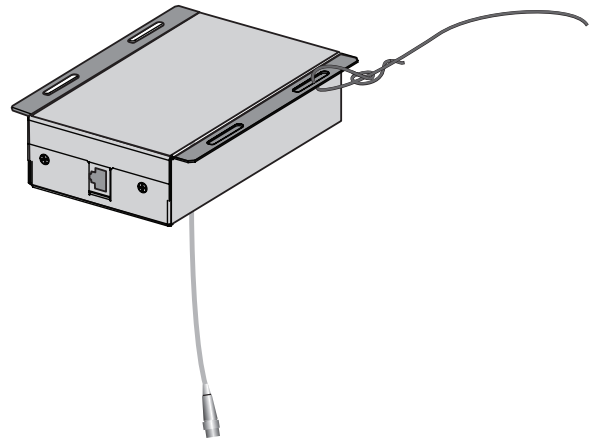
**4**



**5**

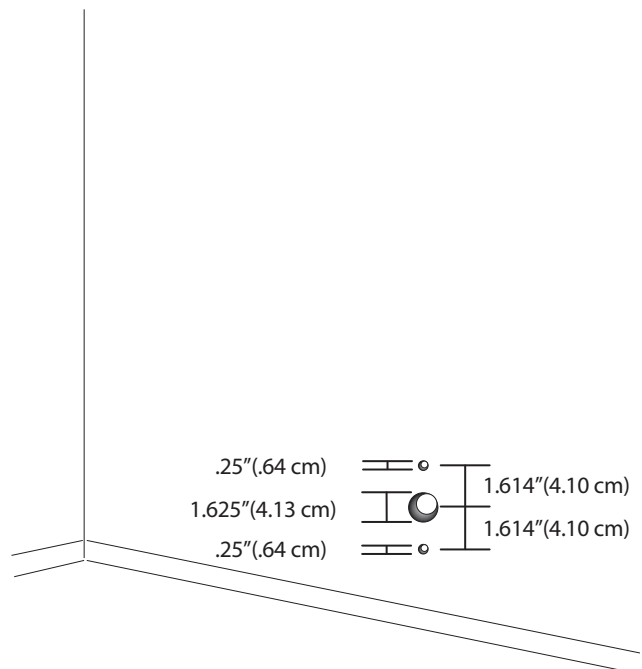


## 6 Optional



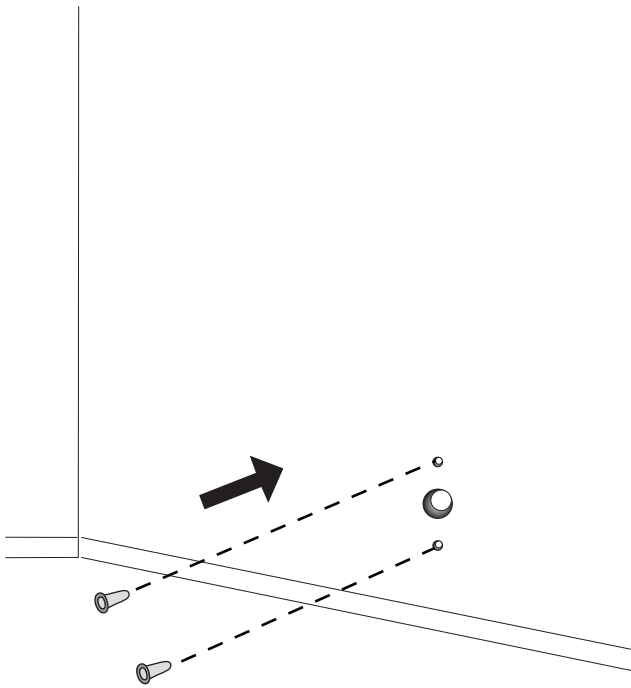
For added safety when removing the ceiling tile at a later time, securely attach the electronics enclosure to the ceiling supports using suitable wire or other hardware appropriate for your ceiling type and in accordance with local regulations. Be sure that the length of wire you use to secure the electronics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

**7**

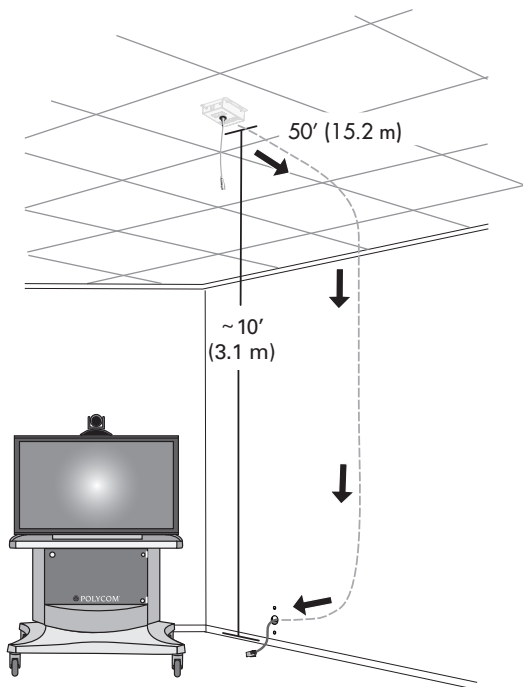


For suspended ceilings (continued)

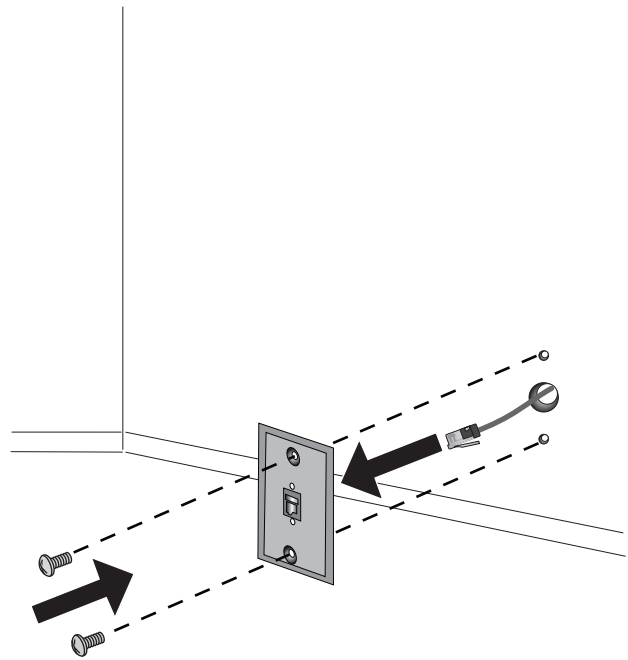
8



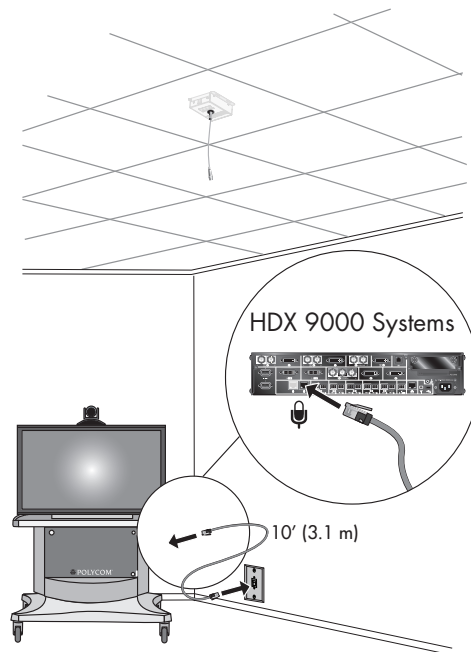
9



10



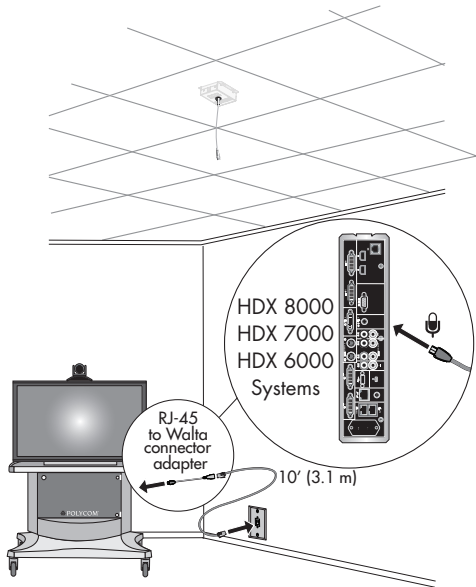
11 For the Polycom HDX 9000



Continue with Step 15 on page 6.

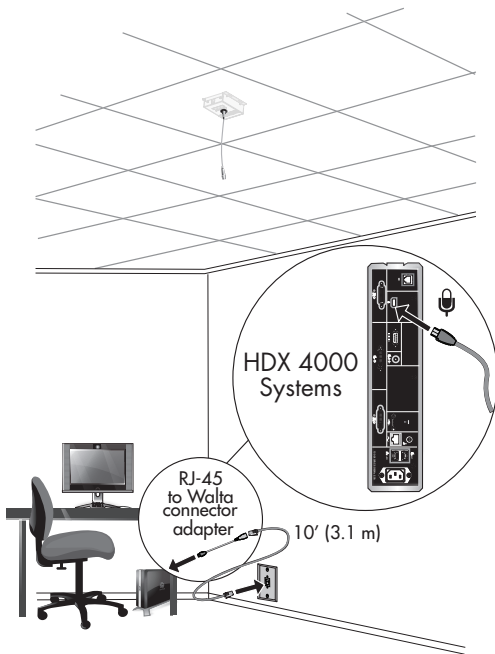
## For suspended ceilings (continued)

### 11 For the Polycom HDX 8000, Polycom HDX 7000, and Polycom HDX 6000



Continue with Step 15 on page 6.

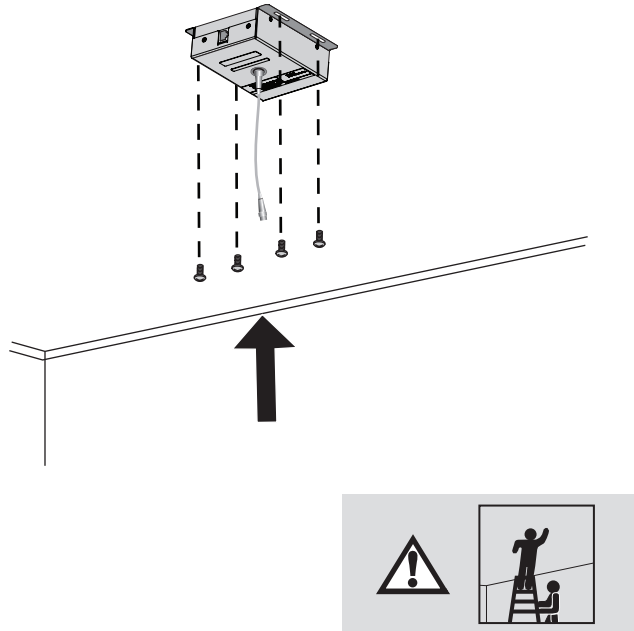
### 11 For the Polycom HDX 4000



Continue with Step 15 on page 6.

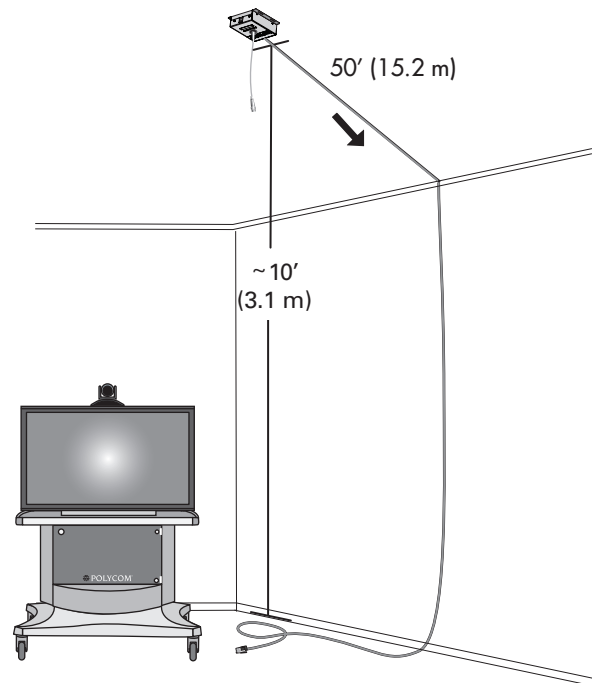
## For ceilings that are not suspended

### 12



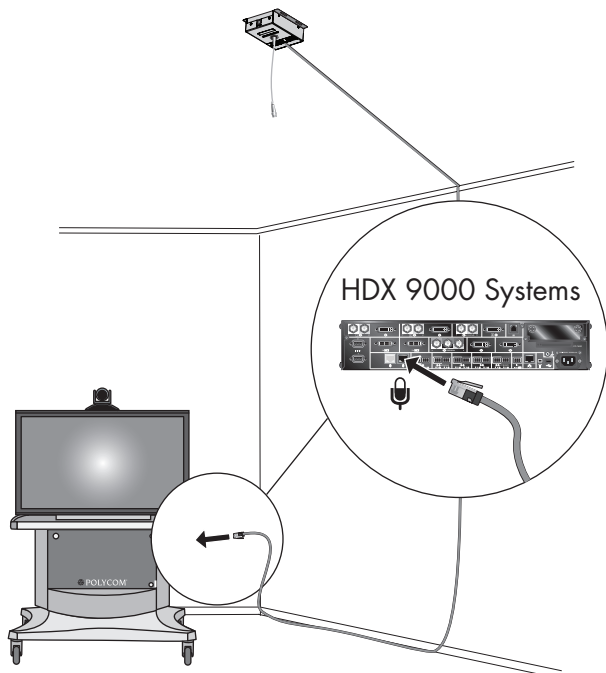
To attach the electronics enclosure, use suitable hardware for your ceiling type. Align the enclosure so that, when the Microphone Array is attached, the dot on the Microphone Array points towards the main display as shown in Step 16 on page 7.

### 13

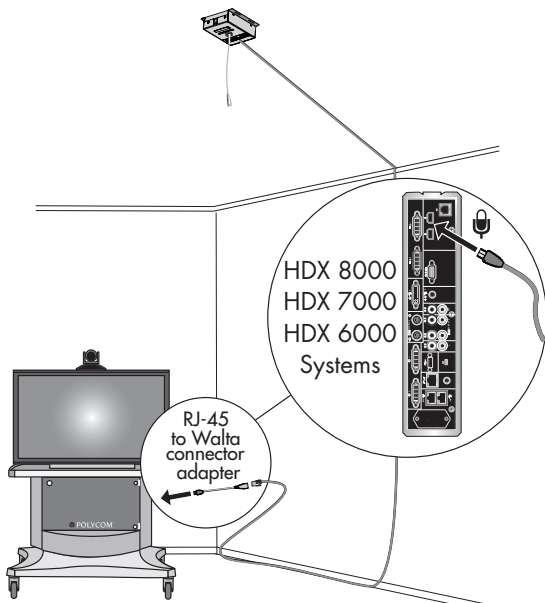


For ceilings that are not suspended (cont.)

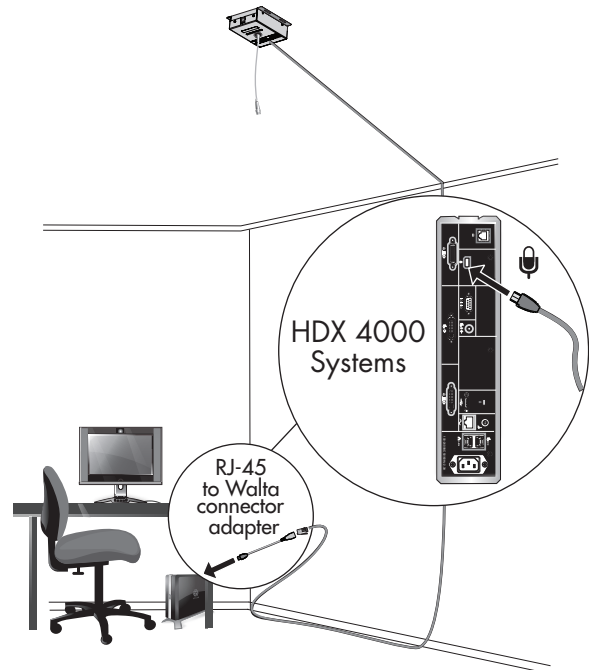
#### 14 For the Polycom HDX 9000



#### 14 For the Polycom HDX 8000, Polycom HDX 7000, and Polycom HDX 6000

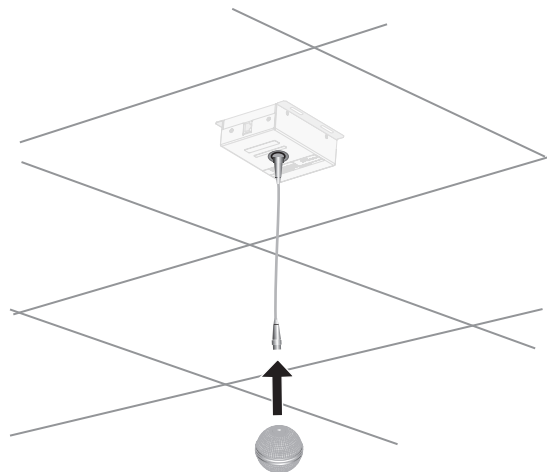


#### 14 For the Polycom HDX 4000



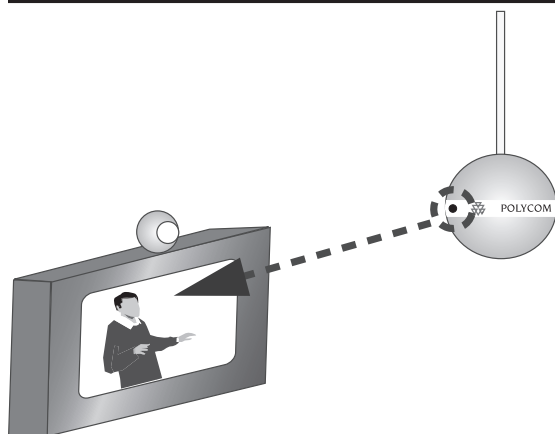
For all ceilings

#### 15



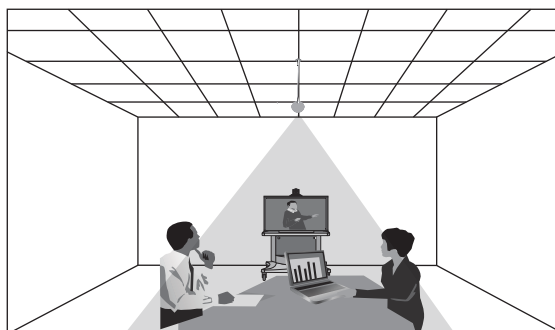
## For all ceilings (cont.)

16



You must point the dot (located on the band around the middle of the microphone ball) towards the main display.

17

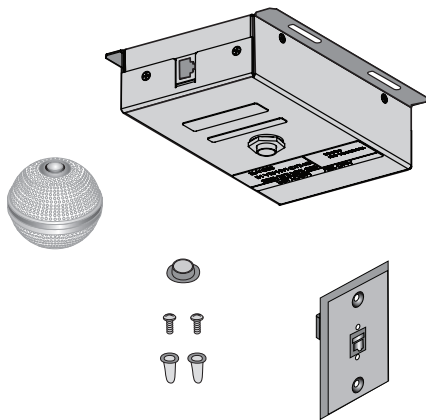


These systems...	Support up to this many Ceiling Microphone Arrays...
Polycom HDX 9000 Series	Four
Polycom HDX 8000 Series	Three
Polycom HDX 7000 Series	Two
Polycom HDX 6000 Series	One
Polycom HDX 4000 Series	Three

If you are planning to install another Ceiling Microphone Array in the same room, refer to *Setting up the Ceiling Microphone Array Extension Kit for Polycom HDX and SoundStructure C-Series Systems* on page 13.

For information about how to optimally place the microphones to send stereo audio for Polycom HDX Systems, refer to the *Administrator's Guide for Polycom HDX Systems*, available at [www.polycom.com/videodocumentation](http://www.polycom.com/videodocumentation).

# Setting up the Polycom HDX Ceiling Microphone Array for SoundStructure C-Series Systems



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 Polycom HDX Systems* for cable pin-outs. You can find this document at [www.polycom.com/videodocumentation](http://www.polycom.com/videodocumentation).

1

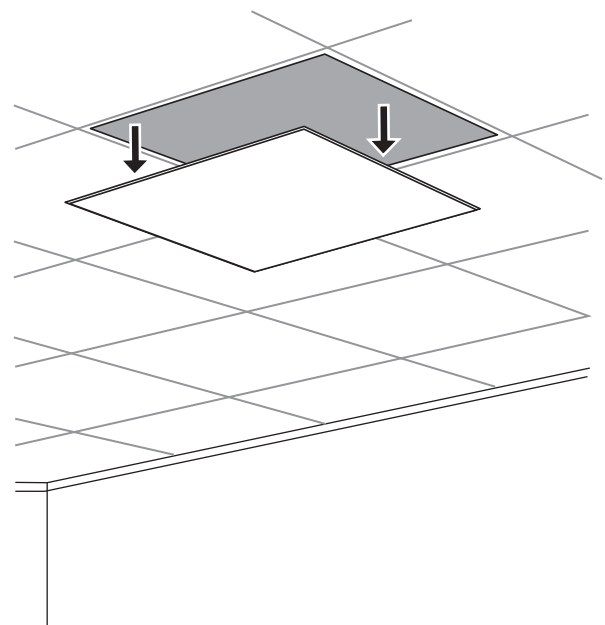


NOTE: Verify that the number of pins on the cable connector matches the number of pins on the connector on the electronics enclosure.

If you do not have a suspended ceiling in your room, continue with Step 12 on page 11.

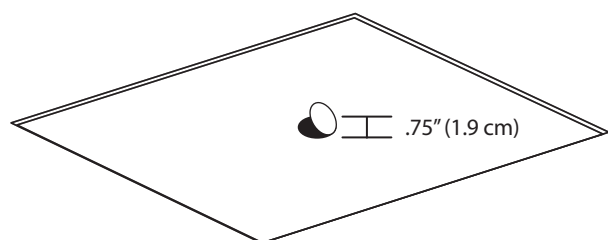
For suspended ceilings

2

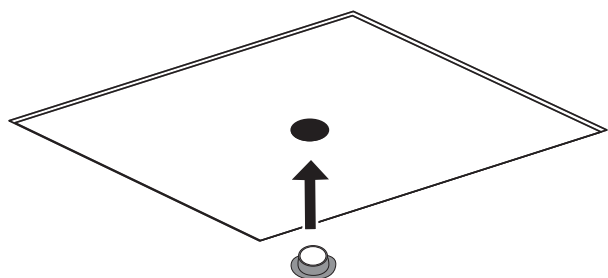


## For suspended ceilings (continued)

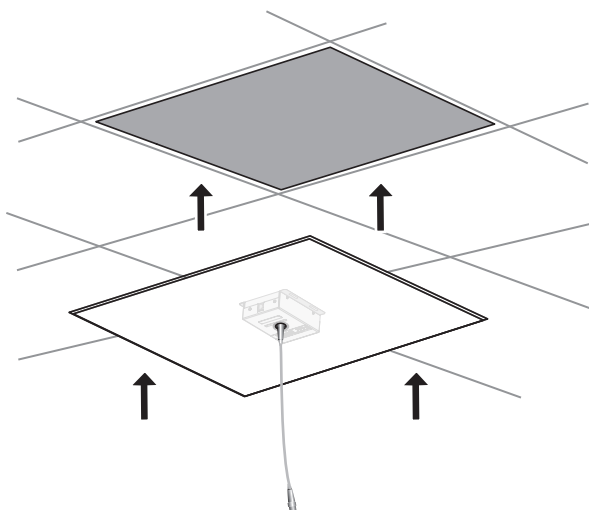
3



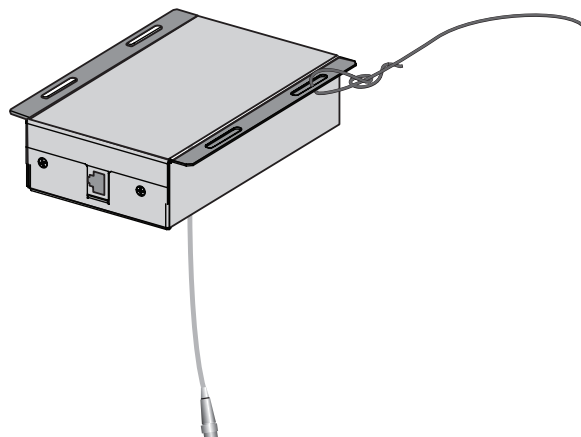
4



5

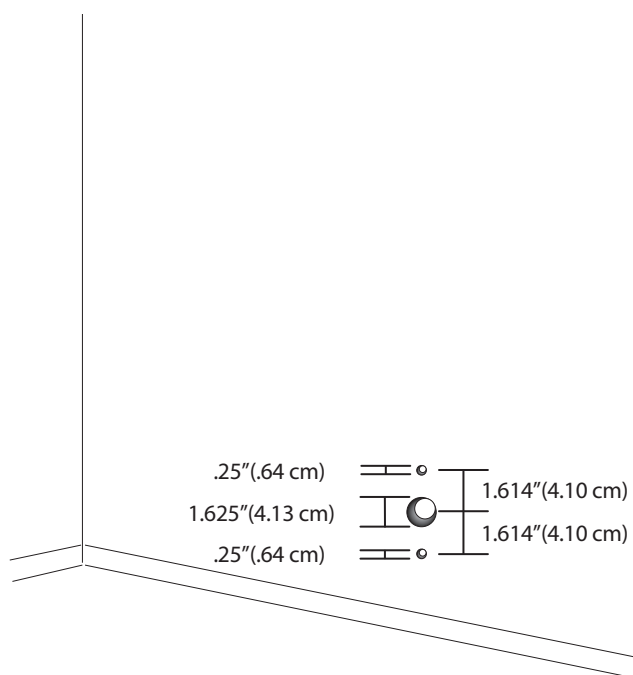


## 6 Optional



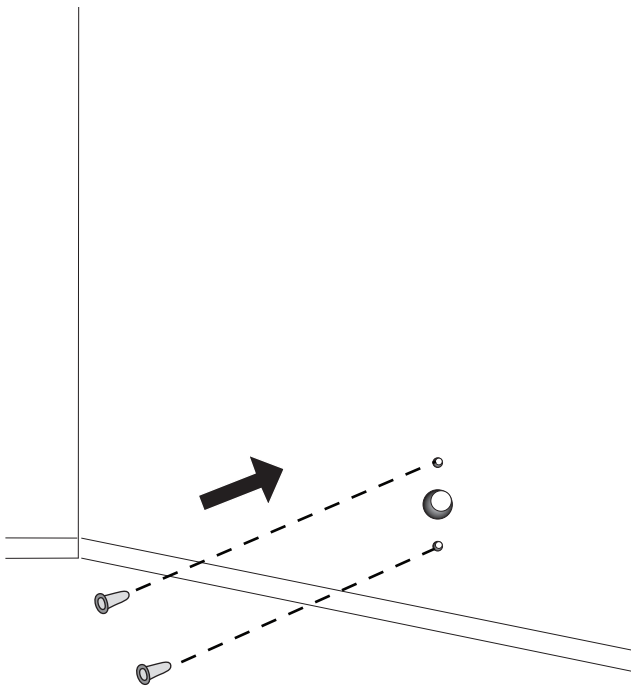
For added safety when removing the ceiling tile at a later time, securely attach the electronics enclosure to the ceiling supports using suitable wire or other hardware appropriate for your ceiling type and in accordance with local regulations. Be sure that the length of wire you use to secure the electronics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

7

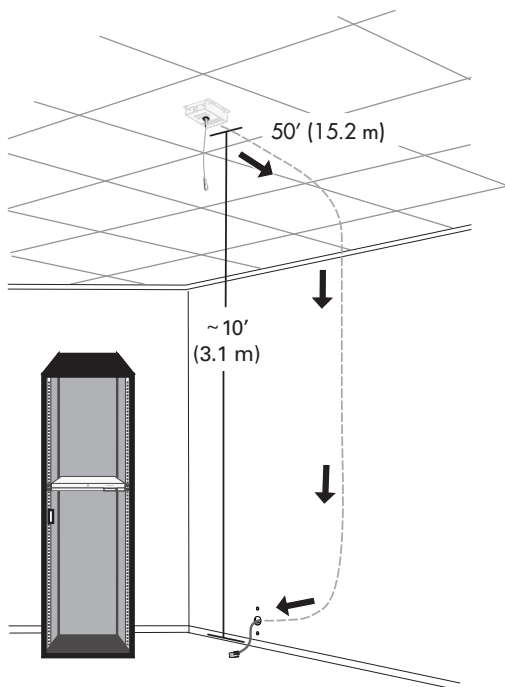


For suspended ceilings (continued)

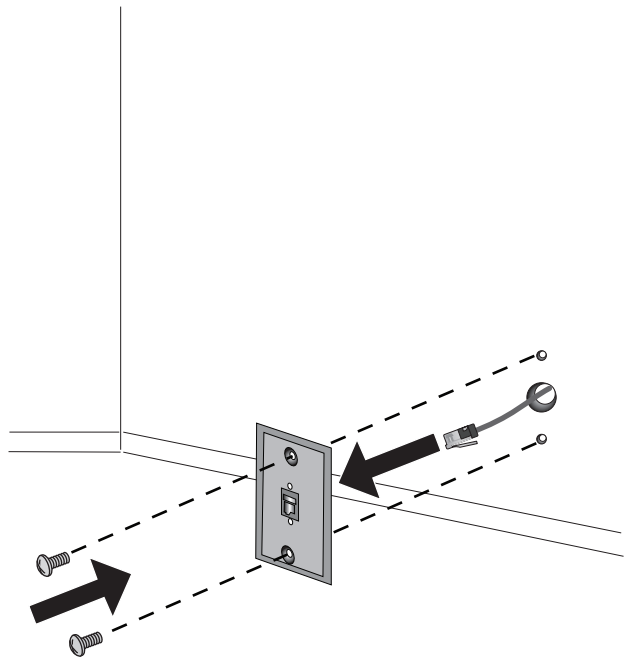
8



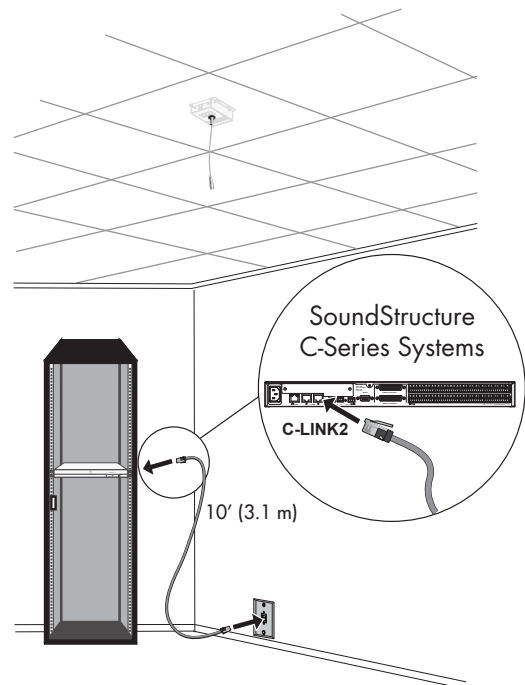
9



10



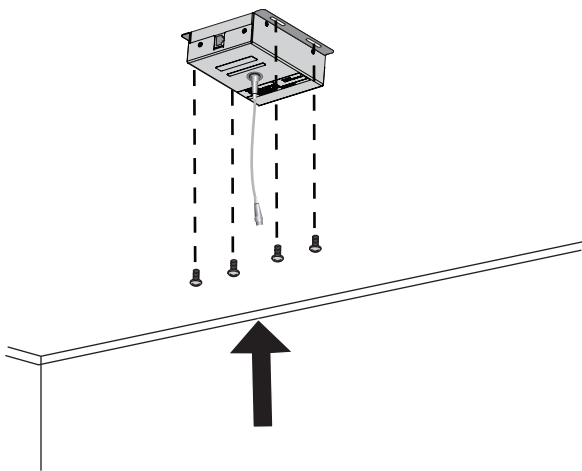
11



Continue with Step 15 on page 11.

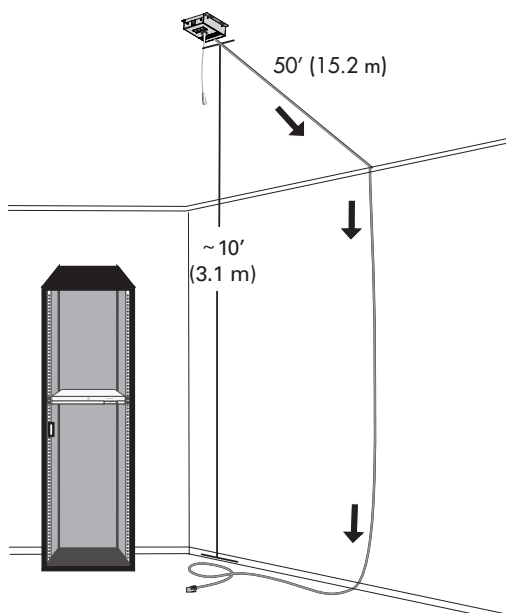
For ceilings that are not suspended

12

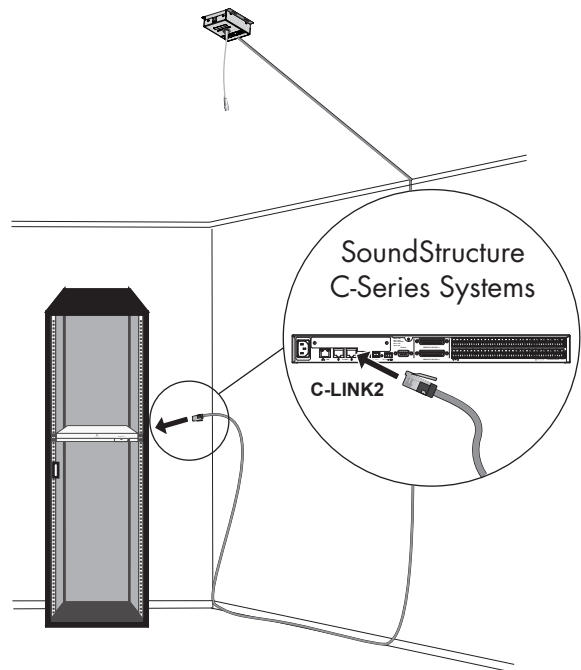


To attach the electronics enclosure, use suitable hardware for your ceiling type. Align the enclosure so that, when the Microphone Array is attached, the dot on the Microphone Array points towards the main display as shown in Step 16 on page 12.

13

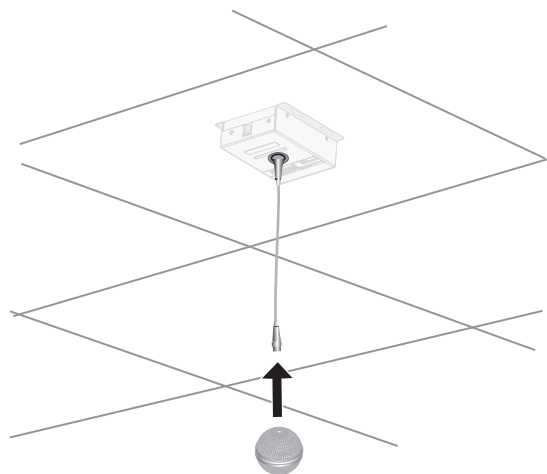


14



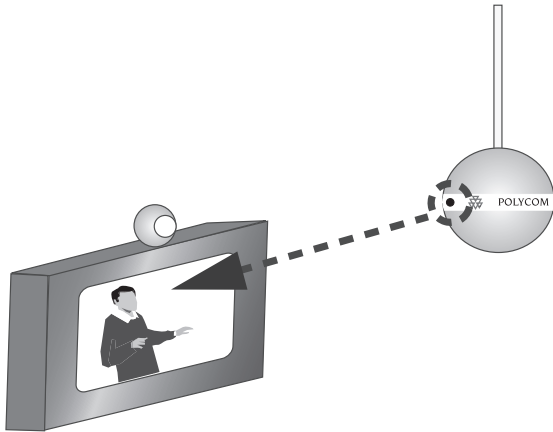
For all ceilings

15



## For all ceilings (continued)

16



For Polycom SoundStructure C-Series Systems that are being used with a video conferencing system: You must point the dot (located on the band around the middle of the microphone ball) towards the main display.

For Polycom SoundStructure C-Series Systems that are not being used with a video conferencing system: You must point the dot (located on the band around the middle of the microphone ball) towards the front of the room.

17

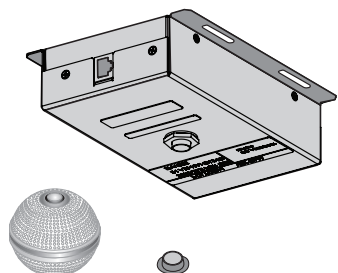


These systems...	Support up to this many Ceiling Microphone Arrays...
Polycom SoundStructure C12 and C16	Four
Polycom SoundStructure C8	Two

If you are planning to install another Ceiling Microphone Array in the same room, refer to *Setting up the Polycom Ceiling Microphone Array Extension Kit for Polycom HDX and SoundStructure C-Series* on page 13.

For information about how to optimally place the microphones to send stereo audio for Polycom SoundStructure Systems, refer to the *SoundStructure Design Guide*, available at [www.polycom.com/voicedocumentation](http://www.polycom.com/voicedocumentation).

# Setting up the Polycom HDX Ceiling Microphone Array Extension Kit for Polycom HDX and SoundStructure C-Series Systems



2' (.6 m)	
25' (7.6 m) plenum crossover (use between two electronics enclosures)	
Second 25' (7.6 m) plenum crossover (use between second and third electronics enclosures for TPX HD 306M, Version 2.0 and later only)	

## 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 Polycom HDX Systems* for cable pin-outs. You can find this document at [www.polycom.com/videodocumentation](http://www.polycom.com/videodocumentation).

1

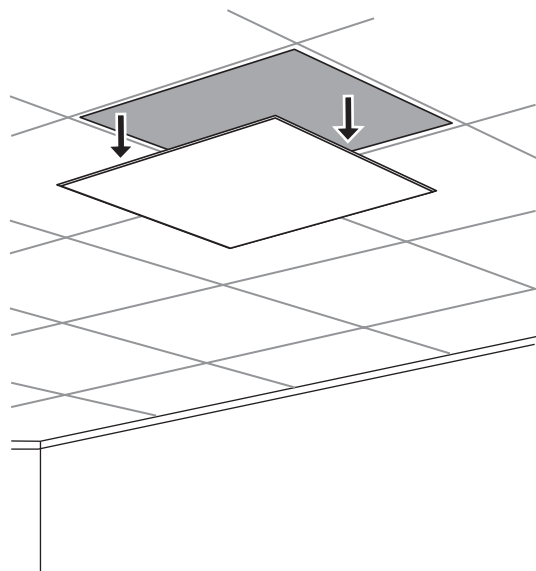


NOTE: Verify that the number of pins on the cable connector matches the number of pins on the connector on the electronics enclosure.

If you do not have a suspended ceiling in your room, continue with Step 8 on page 15.

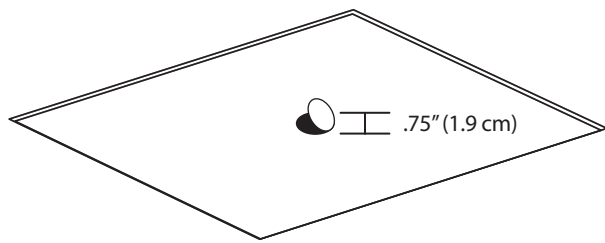
For suspended ceilings

2

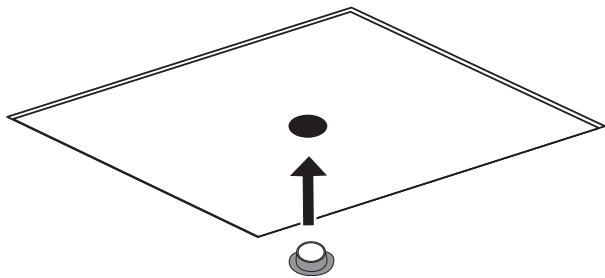


## For suspended ceilings (continued)

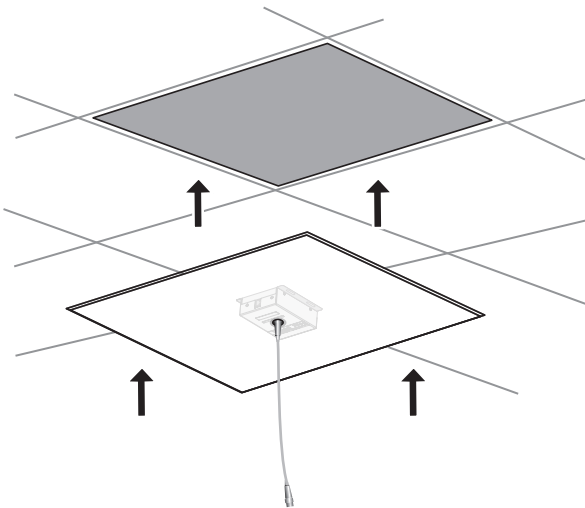
**3**



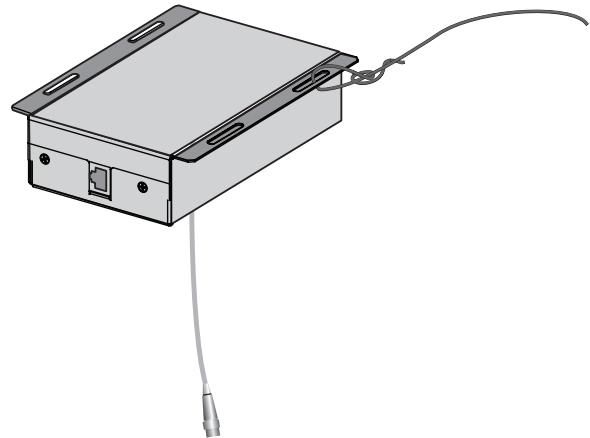
**4**



**5**

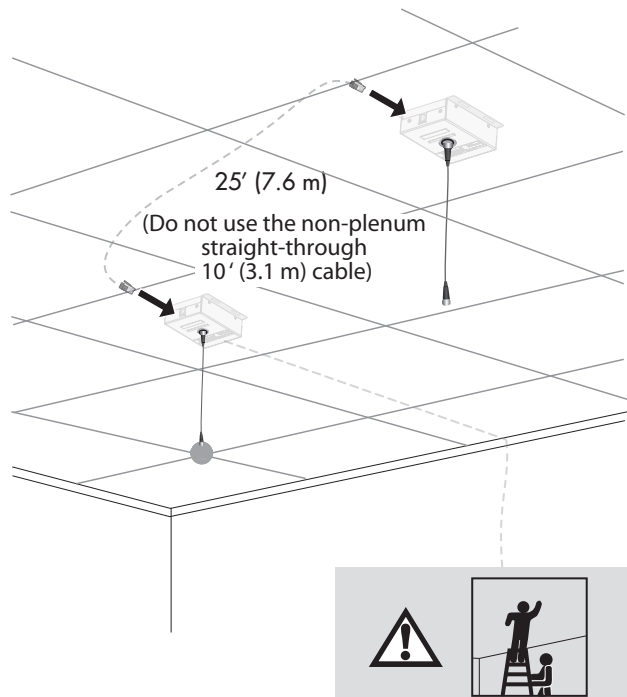


## 6 Optional



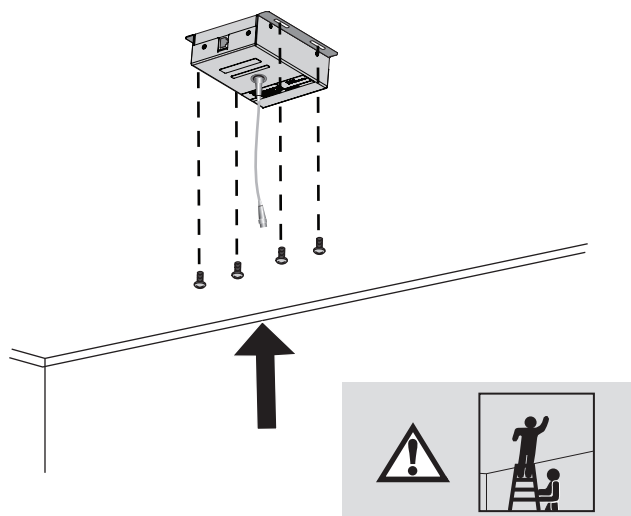
For added safety when removing the ceiling tile at a later time, securely attach the electronics enclosure to the ceiling supports using suitable wire or other hardware appropriate for your ceiling type and in accordance with local regulations. Be sure that the length of wire you use to secure the electronics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

## 7 For Polycom HDX Systems and SoundStructure C-Series Systems



## For ceilings that are not suspended

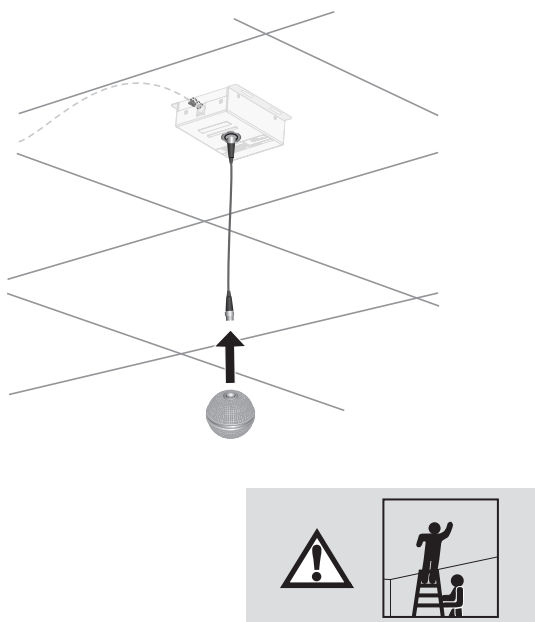
8



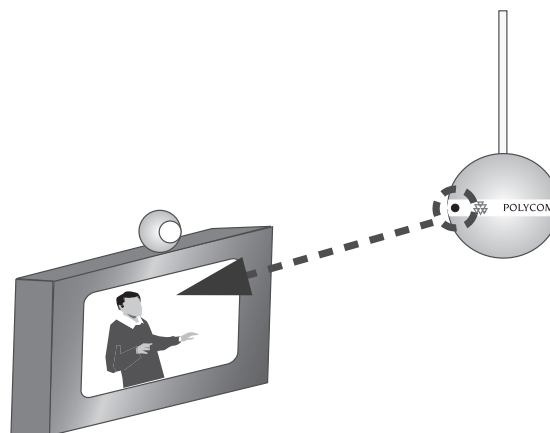
To attach the electronics enclosure, use suitable hardware for your ceiling type. Align the enclosure so that, when the Microphone Array is attached, the dot on the Microphone Array points towards the main display as shown in Step 10 on this page.

## For all ceilings

9



10



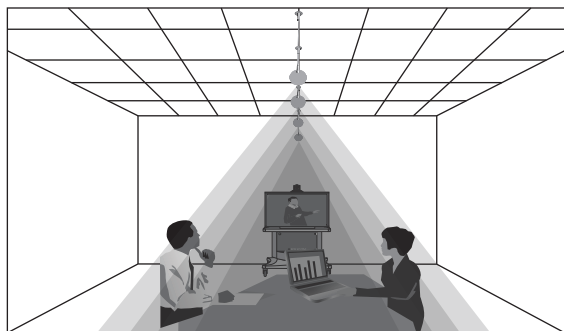
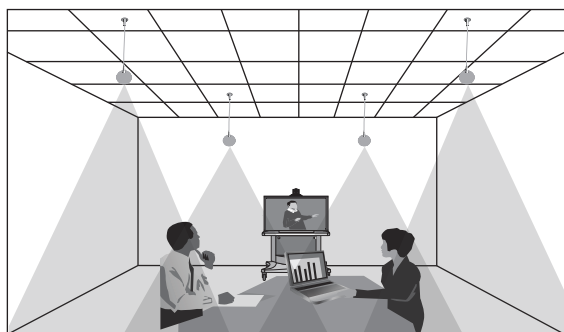
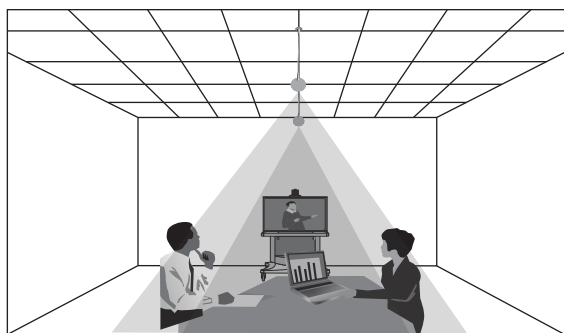
For Polycom HDX: You must point the dot (located on the band around the middle of the microphone ball) towards the main display.

For Polycom SoundStructure C-Series Systems that are being used with a video conferencing system: You must point the dot (located on the band around the middle of the microphone ball) towards the main display.

For Polycom SoundStructure C-Series Systems that are not being used with a video conferencing system: You must point the dot (located on the band around the middle of the microphone ball) towards the front of the room.

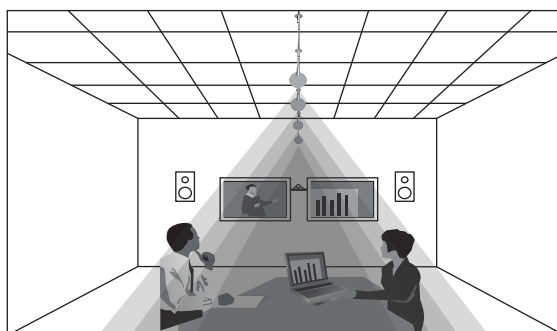
## For all ceilings (continued)

### 11 For Polycom HDX Systems



For information about how to optimally place the microphones to send stereo audio for Polycom HDX Systems, refer to the *Administrator's Guide for Polycom HDX Systems*, available at [www.polycom.com/videodocumentation](http://www.polycom.com/videodocumentation).

### 11 For Polycom SoundStructure C-Series Systems



For information about how to optimally place the microphones to send stereo audio for Polycom SoundStructure Systems, refer to the *SoundStructure Design Guide*, available at [www.polycom.com/voicedocumentation](http://www.polycom.com/voicedocumentation).