

# Release Notes

Polycom® QDX® 6000 System, Version 4.0.2



Polycom is pleased to announce the release of Polycom® Quality Definition Experience™ 6000. This document provides information about the Polycom QDX 6000 system and version 4.0.2 software.



- For best voice performance, speak at a normal conversation level, and direct your voice toward the front of the microphone.
- **PLEASE NOTE V4.0.1 OR LATER UPGRADE REQUIREMENT:** Customers who used data pass-through in 4.0 will need to use a new cable after the upgrade. The part number for the new pass-through cable is 2457-32892-001. Please contact your reseller or Polycom Sales team to acquire the new cable before the upgrade if you currently use this feature.

For more information about using the features described in this document, refer to the product documentation available at [Polycom QDX 6000 support](#).

## Polycom EagleEye View Camera



Polycom introduces the new Polycom EagleEye View Camera. The Polycom EagleEye View camera is an electronic pan, tilt, and zoom (EPTZ) camera that includes built-in stereo microphones. The Polycom EagleEye View camera can be mounted in either the upright or inverted position. Other features include manual focus and privacy shutter.

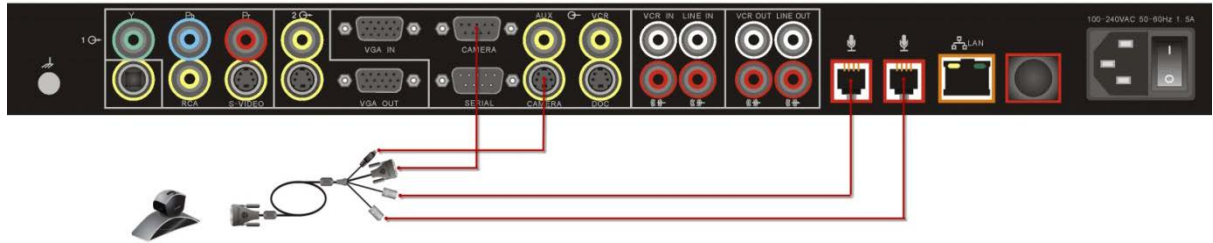
The Polycom EagleEye View is available with the Polycom QDX 6000 system as system camera and the main microphone. In addition, the Polycom EagleEye View can be used as a second pan, tilt, and zoom (PTZ) camera.

To use the Polycom EagleEye View camera, Polycom QDX 6000 systems must be running version 4.0.1 or later.

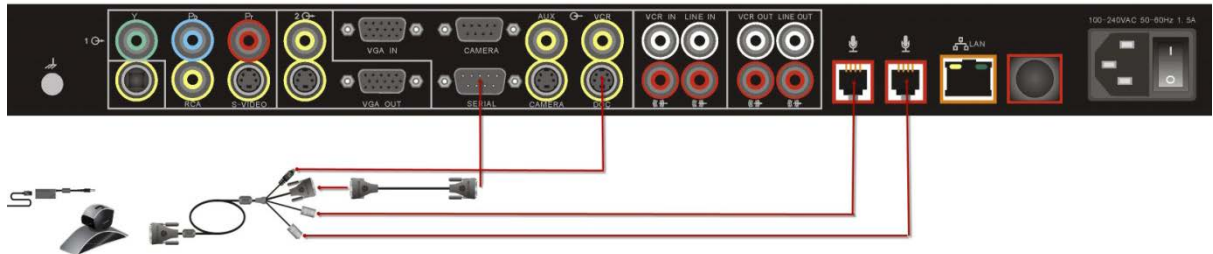
November 2011

3725-82578-402/A

### Polycom EagleEye View Camera as the main PTZ control camera



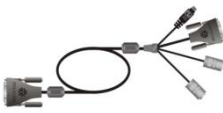

### Polycom EagleEye View Camera as the second PTZ control camera




Note: The part number of the serial cable for second PTZ camera control is 2457-32891-001.

## New Cables

The Polycom QDX 6000 has the following additional cables.

Cables	Description
 <p>PN: 2457-32890-001</p>	<p>An EagleEye View camera cable. One end of this cable is an HDCI connector to the EagleEye View camera, the other end breaks out to the following connectors:</p> <ul style="list-style-type: none"> <li>▪ A DB-9 male connector to QDX serial port for camera control.</li> <li>▪ An S-Video connector to QDX camera input.</li> <li>▪ Two RJ-9 connectors to QDX MIC inputs.</li> </ul>
 <p>PN: 2457-32892-001</p>	<p>A DB-9 male-female serial cable for transparent data pass-through;</p>

Cables	Description
 PN: 2457-32891-001	A DB-9 female-to-female serial cable for second camera PTZ control.

## What's New in Version 4.0.2

The version 4.0.2 software includes the features and functionality of version 4.0.1.1, with the following additions:

- Support for Chair Control for Multipoint Calls
- Support for Time and Date Stamp on Multicast Stream
- Configurable TTL in Multicast Stream
- SDP Information for Multicast Stream
- Countdown Timer for Calls

## Support for Chair Control for Multipoint Calls

During some multipoint calls, you can use chair control to manage the video. In this type of call, the chair controller can choose the site whose video is sent to other sites in the conference. The chair controller can also disconnect a site or end the conference. Any participant can choose to view a specific site, request to be the broadcaster, or request to be chair controller.

Only one site at a time can be the chair controller. Before a site can become the controller, the site with control must give up control.

The type of host for the multipoint call and the system in the call determine whether chair control is available.

Hosted by	Allows chair control if...
Video Conferencing System	The call includes Polycom HDX systems, ViewStation® EX, ViewStation FX, VSX®, and VS4000™ systems connected by IP H.323
Bridge	Allowed by the bridge

**To use the chair control options when you are in a multipoint call:**

- 1 On a computer, open an Internet Explorer 6.x or later.

- 2 In the browser address line, enter the system's IP address, for example, <http://10.11.12.12> to go to the video conferencing system's web interface.
- 3 Click **Place a Call**.
- 4 Click **Chair Control** to go to the Chair Control screen.



The Chair Control is only available when the system is in a multipoint call. It is not available in cascaded multipoint calls.

- 5 Select a site from the list, and then use the controls in the web interface to perform one of these actions:

If you are...	You can do this...	By selecting...
Chair controller	Pass chair control to the selected sites.	Release Chair
	View the selected site's video. This remains in effect until you choose <b>Stop Viewing Site</b> or you release chair control.	View Site
	Return to view the video selected by the chair or by the host.	Stop Viewing Site
	Send selected site's video to the other sites.	Select Broadcaster
	Remove the selected site from the conference.	Disconnect Site
	Disconnect all sites and end the call.	End Conference
Participant	Request control of the conference.	Acquire chair
	View the selected site's video. This does not change what other sites see.	View Site
	Return to viewing the video selected by the chair or the host.	Stop Viewing Site

## Support for Time and Date Stamp on Multicast Screen

When multicast is enabled in a call, the Time and Date stamp can be displayed on the multicast screen.

### To display the Time and Date stamp on the multicast screen:

- 1 On a computer running Windows operating system, click **Start > Run**, and enter "telnet xxx.xxx.xxx.xxx 24" to open the telnet interface of the system.
- 2 Enter "videotimestamp <enable\_flag> <Color> <Pos>", using the following parameters:

Parameter	Description
enable_flag	Specifies whether to enable time stamp: 1 – Enable; 2 – Disable;
Color	Specifies the color of the time stamp displayed on the multicast screen. The color value can be any in the range of 0 – 15.
Pos	Specifies the position to display the time stamp on the multicast screen: 0 – Top left; 1 – Top right; 2 – Bottom right; 3 – Bottom left;

For example, to display the time stamp on bottom left of the multicast screen in color 2, enter "videotimestamp 1 2 3".

## Configuring the TTL value in multicast stream

You can configure the TTL value of the multicast stream to any value in the range of 0 - 255.

### To configure the TTL value of the multicast stream:

- 1 On a computer running Windows operating system, click **Start > Run**, and enter "telnet xxx.xxx.xxx.xxx 24" to open the telnet interface of the system.
- 2 Enter "multicastttl [0...255]".

The TTL value takes effect immediately; there is no need to restart a new

call.

## SDP information for multicast stream

You can get the SDP information about the multicast stream.

**To get the SDP information about the multicast stream:**

- 1 On a computer, open Internet Explorer 6.x or later;
- 2 Go to `http://<QDX_ip_address>/u_stream.sdp`

## Countdown timer for calls

A countdown timer can be displayed on the local screen if a call is in progress. If this feature is enabled, the countdown timer will take the place of the elapsed time or local time in the mini bar on local screen.

**To display the countdown timer on the local screen in a call:**

- 1 On a computer running Windows operating system, click **Start > Run**, and enter `"telnet xxx.xxx.xxx.xxx 24"` to open the telnet interface of the system.
- 2 Enter `"displaylefttimeincall true | false"`.



If the countdown timer is set to true, the call will hang up immediately when the call reaches the maximum duration. Otherwise, there is a popup message asking the user whether to extend the call.

## What's New in Version 4.0.1.1

The version 4.0.1.1 software includes the features and functionality of version 4.0.1. Systems running version 4.0.1.1 software can use the Polycom EagleEye camera as the main camera or as a second camera.


## Using the Polycom EagleEye Camera

The camera will be detected automatically once the system starts up.



If you disconnect the Polycom EagleEye camera, you must detect the camera manually before you can use it again.

**To detect the Polycom EagleEye camera manually:**

1. Connect the Polycom EagleEye camera to the Main/ Document camera input.
2. Press  and set Main/Document camera as video source.
3. Go to **System > Admin Settings > General Settings > Serial Ports**.
4. Set **RS-232 Mode** to **Camera PTZ**.
5. Click **Detect Camera**.

## What's New in Version 4.0.1

The version 4.0.1 software includes the features and functionality of version 4.0.0, with the following additions.

### Multicast

You can configure the QDX 6000 system to allow users to stream audio and video from one to many viewers. Viewers watch the conference from the system's web interface. You can start streaming only when QDX 6000 is in a call.

Points to note about streaming:

- To send a stream across a subnet, multicasting must be enabled on the network or you can unicast to a particular IP address, which will forward the stream to that IP address.
- The number of viewers is limited only by your network topology.

**To configure the QDX system for a streaming call:**

- 1 Go to **System > Admin Settings > Network > IP > Multicast**.

## 2 Configure these settings:

Setting	Description
Enable Multicast	Specifies whether users can start streaming from the system by making the Multicast option available on the Utilities screen of the system's web interface.
Multicast Address	Specifies the multicast address used for the system. The default address is 239.0.0.1.  This can be a unicast location which could be the streaming server.
Audio Port	Specifies the fixed port used for audio. This can be changed if you need to go through a firewall.
Video Port	This value is automatically assigned by QDX. This cannot be changed.
Multicast Content Video	Specifies whether to stream the content video in a call.
Multicast Far Video	Specifies whether to stream the far site people video in a call.
Multicast Local Video	Specifies whether to stream the local people video in a call.

## 3 Go to **System > Admin Settings > General Settings > Security > Security Settings** > > .

## 4 Enable **Allow Video Display on Web**.

Setting	Description
Allow Video Display on Web	Specifies whether to allow users to view video from calls or from the room using the Polycom QDX 6000 web interface.  <b>Note:</b> This feature activates both near site and far site video display in Web Director.

### To stream a conference:

- 1 Go to **System > Admin Settings > Network > IP > Multicast**, select the **Enable Multicast** option.
- 2 In the browser address line, enter the system's IP address, for example, http:

// 10.11.12.13, to go to the system's web interface. Go to **Admin Settings > General Settings > Security**, set the Remote Access password and the Meeting password.

- 3 Place the video call to other participants.



- You can start streaming only when Polycom QDX 6000 is in a call.
- Make sure the **Allow Video Display on Web** option is enabled (**System > Admin Settings > General Settings > Security > Security Settings >>**  **>**  ).

#### To stop streaming a conference:

- 1 Go to **System > Admin Settings > Network > IP > Multicast**.
- 2 Clear the **Enable Multicast** selection.

#### To view a streamed conference:

- 1 On a computer running Windows operating system, open an Internet Explorer 6.x or later.
- 2 In the browser address line, enter [http://xxx.xxx.xxx.xxx/m\\_multicast.htm](http://xxx.xxx.xxx.xxx/m_multicast.htm), where "xxx.xxx.xxx.xxx" is the QDX 6000 system's IP address.
- 3 In the prompted window, enter the user name "meeting" and the meeting password set on your QDX 6000 system.

The stream starts automatically.

#### To stop viewing the streamed conference:

>> Close the web browser.

This stops the stream but does not end the call.

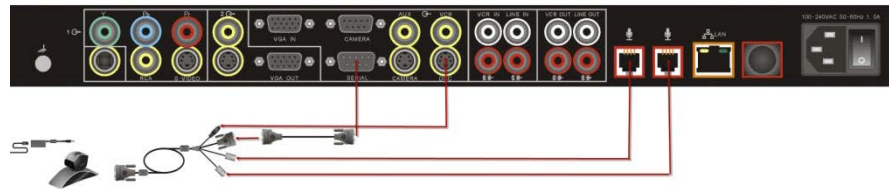
## Camera Control for the Second PTZ Camera

QDX 6000 V4.0.1 supports camera control for the second PTZ camera.

#### To connect a second PTZ camera to the QDX 6000 system:

- 1 Connect a second camera supporting PTZ, such as Polycom EagleEye View

camera, to DOC camera input and serial control. The Polycom female-male convert cable (labeled as “2<sup>ND</sup> CAMERA”) **MUST** be used to connect the second camera serial port to the QDX serial control port.



Note: The part number of the serial cable for second PTZ camera control is 2457-32891-001. This cable can be easily recognized by the “2<sup>ND</sup> CAMERA” label on one end of the cable.

- 2 Set Doc camera as video source.
- 3 Go to **System > Admin Settings > General Settings > Serial Ports**, and set **RS-232 Mode** to **Camera PTZ**.
- 4 Click **Detect Camera** to detect the camera manually.

Notes:

- IR signal cannot be received through the second PTZ camera.
- PTZ speed setting is not available for this camera.

## Others

Feature	Description
G.719 support	G.719 audio protocol is supported in both H.323 and SIP calls on a Polycom QDX 6000 system.
Siren™ 14 stereo support	Siren 14 stereo is supported on a Polycom QDX 6000 system.
Support for H.264 4CIF/4SIF at all data rates	H.264 4CIF/4SIF calls are supported at data rates above 2Mbps on a Polycom QDX 6000 system.

Live music mode support	<p>In live music mode, the system transmits audio using a configuration that best reproduces live music picked up by microphones.</p> <p>To enable live music mode, go to <b>System &gt; Admin Settings &gt; Audio &gt; Audio Settings</b>.</p> <p>Notes: Noise suppression and automatic gain control are disabled when this setting is enabled.</p>
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## Corrected Issues in Version 4.0.2

The following table lists corrected issues in version 4.0.2.

Category	Issue ID	Descriptions
Address Book	QDX-294	Previously, when you imported (exported) entries from (to) the QDX 6000 address book, the SIP addresses of these entries were missing. This issue has been corrected.
Calling	QDX-273	Previously, if a Polycom QDX 6000 system was in a video call, the content statistics was not displayed on the web interface. This issue has been corrected.
LAN Property	QDX-287	Occasionally, if a QDX 6000 system was set to auto get its IP address, you needed to remove and reconnect the LAN cable to get a valid IP address when you powered on the QDX 6000. This issue has been corrected.
Interoperability Polycom® RMX® 2000 Version 7.x	BROAD-2523	Previously, when QDX 6000 was in a call with RMX 2000 running 7.1.0.121 or later version, the received video resolution and frame rate on QDX 6000 was lower than that RMX transmitted. This issue has been corrected.

Category	Issue ID	Descriptions
Interoperability Polycom RMX	QDX-293	Previously, if a Polycom QDX 6000 system was in a multipoint call with a Polycom RMX bridge with MPMx card, the frame rate QDX 6000 received was low, like eight to 12 fps. This issue has been corrected.
Interoperability Polycom RMX 2000	BROAD-1185	Previously, in SIP calls with Polycom RMX2000, Polycom QDX 6000 received H.263 4CIF video instead of H.264 1024x576 video at call rate of 768 kbps. This issue has been corrected.
Preset	QDX-275 QDX-288	QDX 6000 was unable to set presets for video sources other than main camera or document camera. This issue has been corrected.
Video	QDX-245	Previously, there was a “Z” sharp edge at the bottom of local video if the local video output format were Component, S-video or AV. This issue has been corrected.

## Corrected Issues in Version 4.0.1.1

The following table lists corrected issues in version 4.0.1.1.

Category	Issue ID	Descriptions
Preset	QDX-288	QDX 6000 was unable to set presets for video sources other than main camera or document camera. This issue has been corrected.

## Corrected Issues in Version 4.0.1

The following table lists corrected issues in version 4.0.1.

Category	Issue ID	Descriptions
Content	BROAD-892	H.264 content couldn't be negotiated in H323 calls above 1920kbps. This issue has been corrected.
Interoperability Polycom® VSX™	BROAD-871	QDX is not negotiating stereo audio with VSX. This issue has been corrected.
Data Pass-through	BROAD-1184	<p>Data pass through may output garbage data at system start up time.</p> <p>This issue is corrected with the help of a special cable. Please use the Polycom data pass through cable to eliminate garbage data at system start up.</p> <p>You may use a normal serial cable for extension, but the Polycom cable must be connected to the QDX serial control port.</p> <p>Note: The part number of the Polycom serial cable is 2457-32892-001. It is easily recognizable by the "DATA" label on one end of the cable.</p>
Interoperability: Radvision IP/ISDN Gateway	QDX-271	QDX 6000 cannot dial into a Radvision IP/ISDN gateway traversing NAT. This issue has been corrected.

## Known limitations

The following table lists the known limitations for the version 4.0.2 release. If a workaround is available, it is noted in the table.

Category	Issue ID	Found in Release	Descriptions	Workaround
Audio	BROAD-984	4.0.1	Hot-plug the EagleEye View Camera's microphone might change the system's mute status.	Use remote control to correct the mute status.
Audio	QDX-277	4.0.1	Polycom QDX 6000 systems have half duplex audio when both sites speak at the same time.	<ol style="list-style-type: none"> <li>1. Place the microphone about 3 to 4 meters away from the far-end speakers and faced away from them;</li> <li>2. Adjust the speakers volume to 40% to 50% of their total volume range;</li> <li>3. Use the remote for additional volume adjustment.</li> </ol>
Content	BROAD-2179	4.0.2	Time stamp is not displayed while multicasting content using PPCIP connection.	Multicast the content via VGA connection.
Interoperability Polycom VSX	BROAD-978	4.0.1	In SIP calls to the Polycom VSX system, QDX 6000 does not negotiate transmitting stereo audio.	Use call rates lower than 384 kbps (including 384 kbps), or higher than 768 kbps.
Interoperability Sony PCS-XG80	BROAD-1147	4.0.1	Sony PCS-XG80 is unable to send H.239 content to QDX 6000 when connecting to high resolution content source.	Reduce the resolution of Sony content to 1280x720 or lower.
Interoperability Sony PCS-XG80	BROAD-1146	4.0.1	Occasionally, QDX 6000 crashes when the Sony PCS-XG80 sends content when connecting to high resolution content source.	Reduce the resolution of Sony content to 1280x720 or lower.
Interoperability Tandberg MXP	BROAD-1139	4.0.1	Call rates higher than 1920 kbps will down-speed to 1920 kbps when QDX 6000 makes a SIP call with Tandberg MXP.	None
Interoperability FX	BROAD-829	4.0.0	People+Content does not work in calls between Polycom QDX 6000 and FX.	None
Interoperability Tandberg MXP	BROAD-361	4.0.0	Encryption check codes on Tandberg MXP and QDX 6000 do not match.	None
Hardware	BROAD-914	4.0.1	The RS-232 Flow Control is not supported when the RS-232 mode is set to Pass Thru.	None
Multicast	BROAD-1097	4.0.1	System pop up an error dialog "cannot create overlay" while reopening the multicast page.	Close the web browser and reopen.
TV UI	BROAD-793	4.0.0	When 802.1x is enabled on the system, the EAP authentication status does not update if the LAN cable is disconnected.	None
Camera	BROAD-1087	4.0.1	Occasionally, the EagleEye camera as the	Manually detect the EagleEye

Category	Issue ID	Found in Release	Descriptions	Workaround
			2 <sup>nd</sup> camera shows blue screen.	camera.
Camera	BROAD-965	4.0.1	Sometimes the 2nd PTZ camera cannot be detected automatically.	Manually detect the EagleEye camera.
Interoperability Tandberg MXP	BROAD-1183	4.0.1	In HD calls with Tandberg MXP, the lip sync of Polycom QDX 6000 is slightly off.	None

## Interoperability

Polycom QDX 6000 systems are tested extensively with a wide range of products. The following list is not a complete inventory of compatible equipment; it simply indicates the products that have been tested for compatibility with the 4.0.2 release.

Video conferencing systems use a variety of algorithms to compress audio and video. In a call between two systems, each end transmits audio and video using algorithms supported by the other end. In some cases, a system may transmit a different algorithm than it receives. This process occurs because each system independently selects the optimum algorithms for a particular call, and different products may make different selections. This process should not affect the quality of the call.

Type	Product	Version
Management Systems and Recorders	Polycom® RSS™ 4000	7.0.0-30619
	Polycom® RSS™ 2000	4.0.0.001 360
Gatekeeper, Gateways, External MCU, Bridges, Call Managers	Cisco 3745	12.4
	Codian 4505	4.0 (1.44)
	Polycom® CMA™ 4000, CMA 5000	6.0.0.33
	Polycom ReadManager SE200	3.0.6 ER05
	Polycom® PathNavigator™	7.0.12
	Polycom® RMX® 1000	2.1.2-25338
	Polycom® RMX® 1500/2000/4000	7.6.0.170
	Polycom® DMA™ 7000	4.0.0.14
	Polycom® MGC™	9.0.4.3
	RADVISION ECS	5.6.2.4
	TANDBERG Gatekeeper	N6.1
Endpoints	Aethra X3	12.1.19
	Aethra X7	12.1.7
	LifeSize Room	4.5.1(34)
	Polycom CMA Desktop for Windows	5.2.0.11216
	Polycom CMA Desktop for Mac OS X	5.2.0.11216
	Polycom® Telepresence m100	1.0
	Polycom® iPower™ 9000	6.2.0.1208
	Polycom® PVX®	8.0.4
	Polycom V500™, Polycom V700™ Polycom VSX® 3000, VSX® 5000, VSX® 6000, VSX® 7000, VSX® 7000e,	9.0.6.1

Type	Product	Version
	VSX® 8000	
	Polycom® HDX® Series	3.0.3
	Polycom® ViewStation®	512 7.5.4
	Polycom ViewStation	FX 6.0.5
	Polycom SoundPoint® IP 601	3.1.3.0439
	Polycom® VVX® 1500	4.0.1.5738
	Polycom SoundStation® IP 3000	2.8
	Polycom SoundStation® IP 4000	3.1.1.0137
	Sony PCS-1	3.42
	Sony PCS-G50	2.70
	Sony PCS-G70	2.63
	Sony PCS-XG80	2.0.4
	Sony PCS-TL50	2.42
	TANDBERG 6000 B Series	B10.3
	TANDBERG 6000 E Series	E5.3
	TANDBERG C20	3.0.0.211036
	TANDBERG E20	2.1.0.2069545
	TANDBERG 150 MXP	L5.1
	TANDBERG 6000 MXP	F8.2

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