

► Technical Specifications

Polycom® Open Telepresence Experience™ OTX™ 300



VIDEO & AUDIO TECHNOLOGY

Technology Components:

- Polycom HDX™ video codecs supporting 1080p at 30fps or 720p at 60fps
- Polycom Digital Ceiling Microphone Arrays
- Polycom StereoSurround™ speaker kits
- High-definition 65-inch LCD displays
- High-definition video cameras
- Color Touch Panel user interface
- Motorized 21.5-inch high resolution content displays integrated in conference table
- Power and LAN access for laptop at the table

Video and Audio Specifications

Video Standards	Description
H.264/ H. 264 High Profile	Video codec
H.239	People+Content
H.261 and H.263++	For compatibility with legacy video conferencing endpoints
LPR (Lost Packet Recovery)	Video Error Concealment for resiliency against network issues
AES Media Encryption	For secure video/audio and content
Audio Standards	
Siren™ 22	22kHz bandwidth with StereoSurround™
G722.1 Annex C	14kHz bandwidth with Polycom Siren 14
G.722, G.722.1	7kHz bandwidth
G.711	3.4kHz bandwidth

High Profile Bandwidth requirements:

Support for the following data rates with QoS enabled, bidirectional, with a 50% burst increase within 100ms window. These data rates do not take overhead and management bandwidth into consideration. Each system transmits and receives at the given rates, so the total bidirectional network traffic is twice the given rates.

For this table 1 Mbps equals 1,024 Kbps which equals 1,024,000 bits per second.

Frame Rate	Minimum	Recommended	Maximum
1080p30 High Profile	4.5 Mbps per suite	9 Mbps per suite	18 Mbps per suite
720p60 High Profile	4.5 Mbps per suite	9 Mbps per suite	18 Mbps per suite

Performance

- Packet loss < 0.1%
- End to end latency <150 ms
- Packet jitter < 40 ms

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LAN Connection Requirements: See Appendix A for LAN wiring options

The OTX 300 solution requires 100/1000BASE-T network connections, on RJ-45 connectors as well as static IP addresses.

	LAN connections for HDX's	LAN connection for Crestron AV2 System Control	LAN connection for power distribution unit	LAN connections for table	Total LAN connections
Default Configuration	3	1	1	10	15
Alternate Configuration	3	1	1	1 (customer provided switch for table)	6

One analog (POTS) line for voice add-on

Directory Support

Global Directory (LDAP/H.350)	Supports directory services via the Polycom Converged Management Application™ (CMA™) 5000
Local Directory	Configure local directory for sites without CMA directory integration or for situations where entry on the CMA directory is not desirable

	With Complete Experience Kit (Includes OTX Rear Wall and Lights)			Without Complete Experience Kit (Does Not Include OTX Rear Wall and Lights)		
	Width	Depth	Height	Width	Depth	Height
Recommended Room Size	22 ft 4½ in (6.820 m)	15 ft 6 in (4.724 m)	8 ft 8 in (2.642 m)	22 ft 4½ in (6.820 m)	15 ft 6 in (4.724 m)	8 ft 8 in (2.642 m)
Minimum Room Size	22 ft 4½ in (6.820 m)	15 ft 6 in (4.724 m)	8 ft 0 in (2.438 m)	19 ft 0 in (5.791 m)	13 ft 8 in (4.166 m)	8 ft 0 in (2.438 m)

Room Environment



If you are planning to use the OTX Complete Experience kit: The Complete Experience kit includes the OTX rear wall and the ceiling lights.

Complete Experience Kit
(includes rear wall and lights)

Lighting

- Six lighting elements 12" x 4' [365.76 cm x 121.92 cm]
- Fluorescent lamp, 4100K

Rear Wall



Width	Depth	Height
20 ft 7 7/8 in (6.309 m)	3 ft 9 1/2 in (1.188 m)	6 ft 0 in (1.828 m)

Seating

- Six seats on-camera
- Ten seats for off-the-call use

Chairs

Chairs are to be supplied by the customer. Polycom recommends the Herman Miller Eames Aluminum executive chair. This chair was chosen to complement the décor of the OTX 300 in both style and size. It's recommended that chairs are the same size, color and shape to maintain cohesiveness of the suite.

For customers choosing to supply their own chairs, the dimensions must NOT exceed:

- Arm span: 24.5" [62.23 cm]
- Wheel base: 27" [68.58 cm]

Power & Cooling			
	Total Power (Watts)	BTUs/Hour	Cooling in Tons
Standby (Components off except rack components and cameras)	300	1025	.09
In Use (Max call rate with Content and doc sharing)	2000	6824	.57
Maximum (system will not exceed)	2500	8530	.71
Optional Lighting (part of the Complete Experience Kit)	810	2764	.23

Environmental Conditions	
Conference room operating temperature	41-86° F, 5-30° C
Relative humidity	20% to 80% (non-condensing)
Sound Pressure Level	43 dBA or better
Recommended NC rating	30 or better

Total Installed Weight				
OTX 300	Units	Weight	Area	Avg. Static Load lb/ft² - kg/m²
Front Wall	lbs	1216 lbs	26 sq ft	47 lb/ft
	kg	553.2 kg	2.42 sq m	229 kg/m
Multipurpose Conference Table	lbs	656 lbs	81 sq ft	8 lb/ft
	kg	298.1 kg	7.52 sq m	40 kg/m
Rear Wall	lbs	843 lbs	17 sq ft	50 lb/ft
	kg	382.9 kg	1.54 sq m	248 kg/m

Regulatory Compliance
<ul style="list-style-type: none"> • CE Marking • FCC Part 15 Class A

Content Sharing



Figure 1.0 – content displayed during a video call



Figure 1.1 – content displayed off a call

On a call, content is displayed on the tabletop content monitors.

Off the call, content may be displayed on both the table content displays and on the main displays as shown.

Display resolution	1920x1080
Laptop connectivity	Power and LAN are optionally available at the table (10) Ethernet ports (10) power plugs and (1) VGA input
People + Content	Content sharing via VGA cable on multipurpose conference table
People + Content IP	Content sharing sent over corporate IP connection from your computer to the video conference system (no cables necessary)

Close Up Option

The OTX 300 includes an optional feature, which when enabled via software during installation, allows the user to either zoom the center camera in for a “close up” view of the center two participants or out for the standard “wide shot” view of the participants. There are specific scenarios where this feature would be deployed:

- A point to point call between an OTX 300 and an HDX or other traditional video conferencing system (single display endpoints)
- Any call via an RMX or MGC bridge (including multipoint)

User Interface

The color Touch Panel is the interface to the OTX 300 solution. It enables you to place video and audio calls, hang up calls, control the audio and perform other telepresence conferencing tasks. The Touch Panel is placed within easy reach of the center seats at the main table.

Below is a summary of the tasks can perform using the color Touch Panel.

Button/Function	Description
Make a call	The user has the ability to dial manually or speed dial. There are 18 video speed dial buttons available (9 buttons will appear on the home screen at a time) and there are 4 audio speed dial buttons.
Search and directory capability*	Select suites from a local or CMA directory and use advanced search capabilities
Polycom Calendaring for Microsoft® Outlook*	This feature allows the user to use the Touch Panel to quickly and easily view a list of scheduled meetings and join those meetings.
Meeting Composer	Enables the meeting organizer to initiate and control a multipoint call entirely from the Touch Panel*
Hang up	Allows the user to end the call
Audio controls	Allow the user to raise and lower audio levels
Audio mute	Allow the user to stop transmission of audio through the microphone(s)
Content controls	Allow the user to start and stop sharing content
Help desk	Button set up by the system administrator to place an audio call to a help desk that can assist users should they experience technical difficulties or have a question.

*available with the Enhanced UI

Multipoint Conferencing

The OTX 300 telepresence solution provides two methods for viewing participants in a multipoint conference.

Room Continuous Presence: In this standard mode, the multipoint view will automatically be generated either to follow the general principles of Polycom Immersive Telepresence multipoint (all participants are “present” during a multipoint conference) or to fit a custom-set view configured by the conference administrator for the particular combination of sites in the conference.

Voice Activated Room Switching (VARS): VARS is different from the standard Room Continuous Presence mode in that the speaker’s site is the only site seen by others. The view of the speaker’s site is sized to be as large as possible on all of the other participants’ displays. The current speaker sees the previous speaker’s site (i.e., the speaker’s layout remains unchanged). Layouts used in VARS are not customizable.

To implement telepresence multipoint conferencing with Polycom telepresence solutions, the following components are required:

Device	Function	Model(s) Supported
Endpoints/rooms	Provide experience, ease of use, etc...	RPX™, OTX, ATX™, HDX, Traditional videoconferencing endpoint
Multipoint server	Provide multisite call capability, gateway to other solutions such as ISDN/H.320, Microsoft OCS, etc.	RMX™ 2000 and RMX™ 4000 with the telepresence option enabled and supported by Polycom’s Multipoint Layout Application
Global Directory Access	Directory	Converged Management Application™ (CMA™), HDX Directory
Others	Call control, firewall traversal, etc.	Varies depending on network infrastructure

For more detailed information about telepresence multipoint conferencing, please refer to the Polycom Telepresence Multipoint Overview posted on the Partner Resource Center web site.

Appendix A: OTX 300 LAN wiring options

The customer has a choice of LAN wiring option which will depend on whether they want a switch in the OTX 300 room, or prefer home runs back to a more centralized switch.

Supported LAN wiring options include:

- Home runs for OTX 300, table and system components (Figure 2.0)
- Home runs for the OTX 300, system components and LAN switch which will distribute network to the table (Figure 2.1)

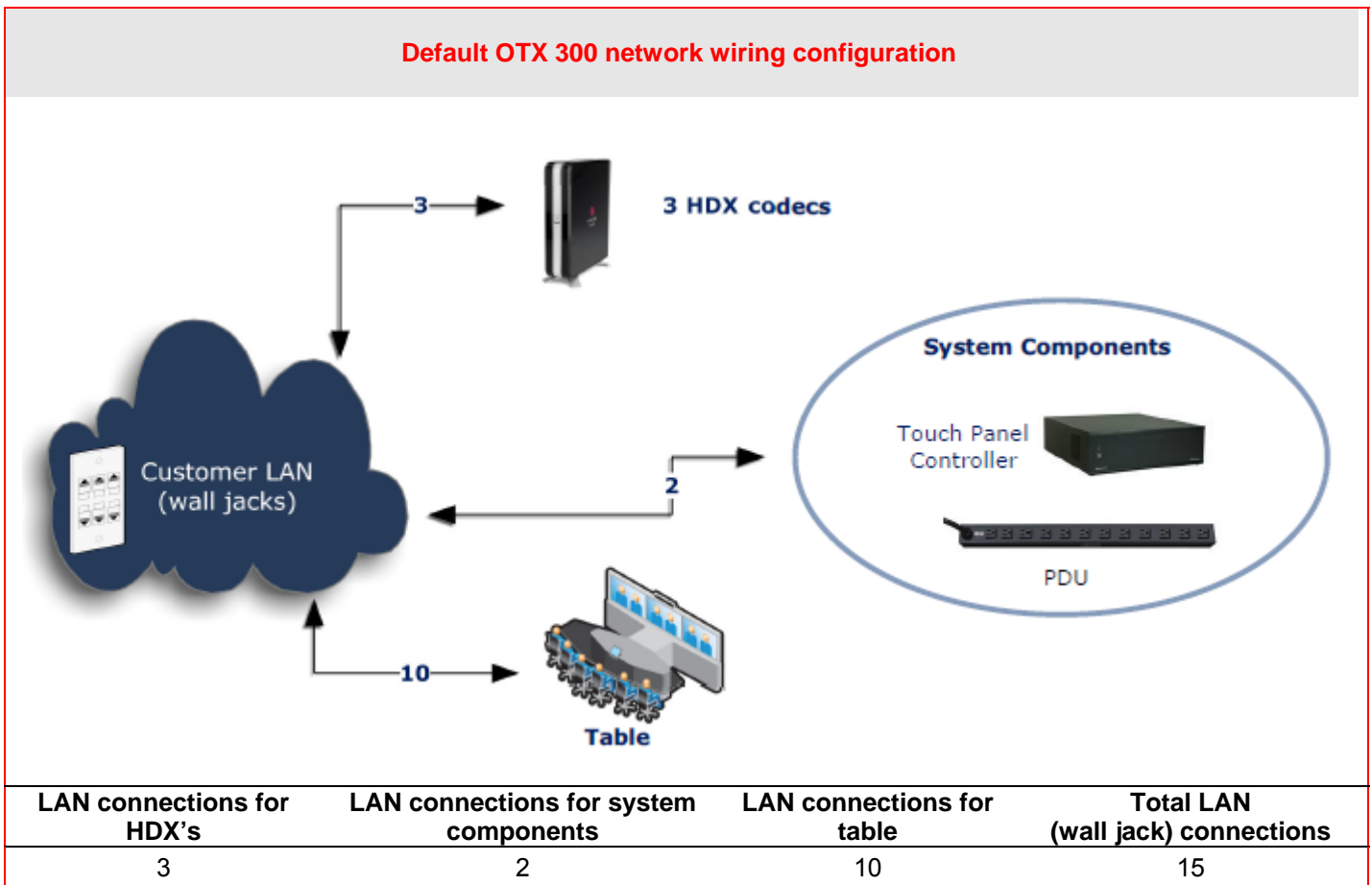
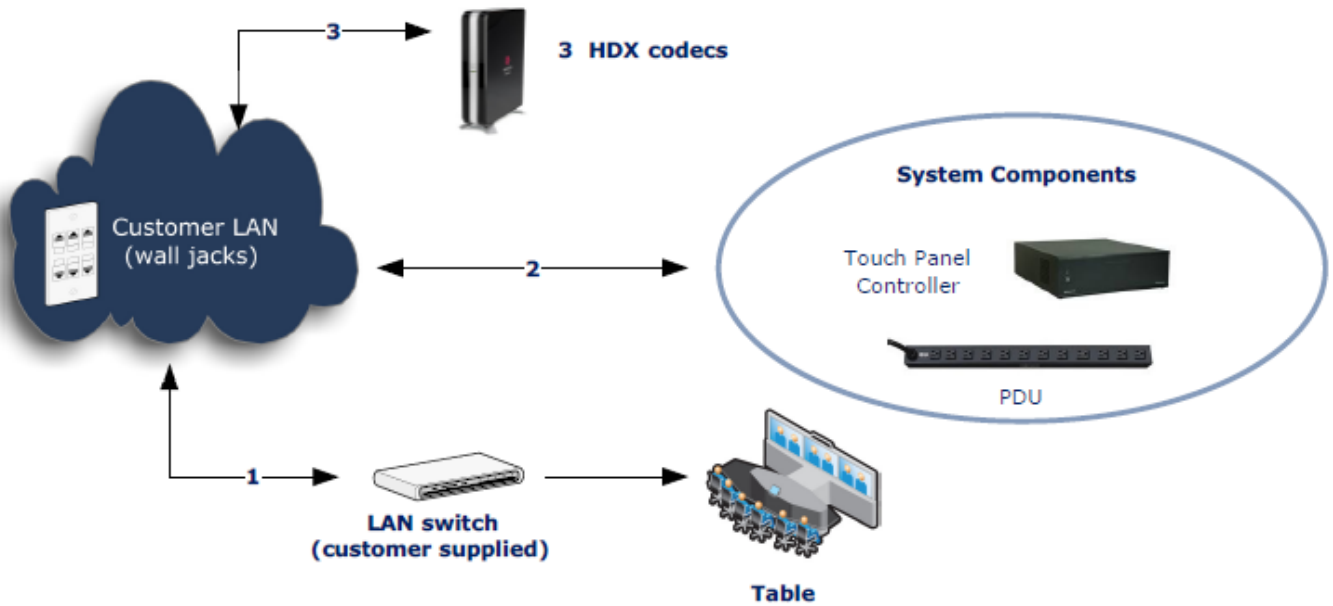


Figure 2.0 – default network configuration

Alternate OTX 300 network wiring configuration



LAN connections for HDX's	LAN connections for system components	LAN connection switch	Total LAN connections
3	2	1	6

Figure 2.1 – alternate network configuration

Recommendations for customer-supplied switch:

1. Rack mountable, 1U height
2. Input power: 100-240 VAC, auto-ranging, 50-60 Hz
3. Acoustic noise-recommend maximum of 43 dBa, ISO 7779. It is the responsibility of the customer to investigate and select the appropriate managed switch for their particular application.