



# MEMO

TO: Dr. Josh Bullock, President

FROM: Greg Nuxoll, Vice President for Business Services

DATE: June 23, 2021

RE: Approval of Bid for HyFlex Classroom Solution with SynapSIS, Inc.

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The College is in the midst of a major overhaul of important IT systems across the college with funding in part from bond proceeds, college budgeted funds and governmental provided HEERF funds. The ISS team has multiple projects on their current docket and many in the queue for the near future.

One of our primary goals is equipping our College's classrooms with state of the art technology so they continue to provide instruction to students who are physically present but also allows other students to attend virtually if desired. Lake Land College has already collaborated with SynapSIS, Inc. of Springfield to implement this type of solution for our dual credit courses as part of the Rural Education Delivery System (REDS) project. The REDS project connects the College to five rural high school sites via high definition video and audio conferencing capabilities.

This fully integrated solution, powered by the Eagle Eye Director by Polycom, has people-tracking technology that automatically zooms in on the active speaker. The system has 70" interactive touch screens, Eagle-eye motion sensitive cameras, and ceiling microphones. Faculty, students and other presenters do not have to worry about staying in camera view or how to work a remote control, they stay focused on the bigger issue—engaging in learning.

The major appeal of the HyFlex Model is its flexibility. Courses can be placed in a regular campus classroom schedule and if social distancing requirements shift, the college can quickly adjust to 100% virtual if needed. Post pandemic, if students are concerned about returning to the in-class sessions on campus or are unable to physically attend, with the HyFlex solution in place, they can fully participate online. Lake Land College states its mission is to create and continuously improve an affordable, accessible, and effective learning environment for the lifelong educational needs of the diverse communities we serve. The HyFlex model ultimately empowers Lake Land College to take the next bold step to offer access to the outstanding educational services we provide.

Per government rules, projects using federal funds and costs exceeding \$250,000 are required to solicit bids. Lake Land College posted this bid with technical and business specifications matching the REDs solution equipment. For the bidding process, we advertised in major newspapers with in our district, on the College's website, and directly emailed to three ideal solution providers. Only one bid

was received by Synapsis, Inc. who included the itemized cost per classroom dependent on specific equipment in each setup.

Below is a listing of the single bid that was received:

| Name                           | Total Bid  |
|--------------------------------|--|
| SynapSIS, Inc., Springfield IL | Type A Classroom - \$44,689 (full complement of equipment) |
|                                | Type B Classroom - \$36,228                                |
|                                | Type C Classroom - \$26,435                                |

The bid also includes (1) a 3 year warranty and device replacement, (2) Train the Trainer Program at no cost to Lake Land College, (3) Offsite Poly Com Bootcamp for 1 College System engineer at no cost to Lake Land College, and (4) Exclusive College online "course posting" page and access to the RISE portal at no cost to Lake Land College.

David Stewart, CIO has worked with Jon Althaus, VPAS and Lake Land faculty to determine the most opportune rooms at the College to install this technology. The College fully expects to install a mixture of Type A, Type B or Type C setups and would like to work with SynapSIS, Inc. to determine the best setup for a total of 25 classrooms and conference rooms throughout the College. Once this initial implementation is completed, Lake Land will have familiarity with the technology, a better understanding of the demand for remote learning, and can determine if more classrooms implementations are needed to address future demands.

I recommend the Board accept this bid from SynapSIS, Inc. expanding our partnership and implementing the Eye Director solution in 25 rooms with maximum total project cost not to exceed \$1,500,000.

HEERF funds can be used to fully cover the cost, as this technology will provide direct assistance to institutions of higher education to respond to student and campus needs related to the crisis.

# Bid Response

The logo for Lake Land College is centered within a solid red square. The text "LAKE LAND" is in a large, white, serif font, and "COLLEGE" is in a smaller, white, serif font directly below it.

LAKE LAND  
COLLEGE

## Specifications for Hyflex Classroom Solutions

Project Number: 2021-006

The logo for SynapSiS features the word "SynapSiS" in a bold, italicized, black sans-serif font. Above the "i" in "SiS" are three blue dots of increasing size, arranged in a diagonal line.

*SynapSiS*

3161 West White Oaks Drive, Suite 302  
Springfield, IL 62704

## SECTION 004146

## BID FORM

## PROJECT

IDENTIFICATION: Hyflex Classroom Solutions, Project # 2021-006

BID TO: Board of Trustees  
 Lake Land College District Number #517  
 C/O Greg Nuxoll  
 Vice President for Business Services  
 5001 Lake Land Boulevard  
 Mattoon, Illinois, 61938

BID FROM: SynapSiS, Inc.  
3161 West White Oaks, Suite 302 Springfield, IL 62704

The undersigned Bidder agrees, if this Bid is accepted, to enter into an Agreement with the Owner, in the form included in the Bidding Documents, to perform and furnish all materials, labor and equipment as specified or indicated in the Bidding Documents for the Bid Price and within the Bid Times indicated in this Bid and in accordance with the terms and conditions of the Contract Documents.

In submitting this Bid, Bidder represents that:

- A. This Bid will remain subject to acceptance for 60 days after the day of the bid opening.
- B. The Owner has the right to reject this bid.
- C. Bidder will sign and submit the Agreement with the Bonds and other documents as required by the Bidding requirements within 15 days after the Owner's Notice of Award. A W-9 Form is required.
- D. Bidder has copies of all the Bidding Documents.
- E. Bidder is familiar with federal, state and local laws and regulations.
- F. Bidder has correlated the information known to Bidder with the Bidding Documents.
- G. This Bid is genuine and not made in the interest of or on the behalf of an undisclosed person, firm or corporation and is not submitted in conformity with an agreement or rules of a group, association, organization or corporation; Bidder has not directly or indirectly induced or solicited another Bidder to submit a false or sham Bid; Bidder has not solicited or induced a person, firm or corporation to refrain from bidding; and Bidder has not sought by collusion to obtain for itself an advantage over another Bidder or over the Owner.
- H. Bidder has received the following addenda receipt of which is hereby acknowledged.

| Date  | Number |
|-------|--------|
| _____ | _____  |

Bidder will provide all materials, labor and equipment as specified in accordance with the Contract Documents for the following price(s):

|   |  |                   |             |
|---|--|-------------------|-------------|
| STIPULATED-SUM BID PRICE                | Hyflex 3 Option Bid all inclusive with | Type A Classroom: | \$44,689.00 |
| (Base Bid – Hyflex Classroom Solutions) | support and installation               | Type B Classroom: | \$36,228.00 |
|   | (use words)                            | Type C Classroom: | \$26,435.00 |
|   |  |                   | (figures)   |

Bidder agrees to provide all materials, labor and equipment, as specified, on or before the number of calendar days indicated below.

SUBMITTED on 6-18-2021, 2021

Company SynapSiS, Inc.

Address 3161 West White Oaks, #302, Springfield, IL 62704

Signed [Signature]  
 Sean Brown  
 (Printed Name)

No. of Working Days To Provide Specified Materials, Labor and Equipment  
30 Days

Phone [Redacted]

Email [Redacted]

END OF SECTION

Lake Land College  
Attn: Greg Nuxoll  
Vice President for Business Services

**RE: Proposal for Hyflex Classroom Solutions, Project NO. 2021-006**

Mr. Nuxoll,

Thank you for the opportunity to present a response for the Lake Land College Hyflex Classroom Solution. This proposal details our services and capabilities to implement a smooth project transition and ultimate support for your Hyflex classrooms, as we have done at various other state educational institutions across Illinois. SynapSiS has extensive experience in designing, installing, and supporting Hyflex classroom solutions, as well as a proven system for training and supporting staff coupled with an online collaborative portal.

I have enclosed details surrounding each of our room solutions, detailed pricing and addendums for room renderings and product specifications. All classroom type costs are noted in the Bid Form with a detailed pricing breakdown in this document. The pricing is a per classroom price. Please note that modifications are expected as we conduct a detailed walkthrough of all proposed lecture halls.

SynapSiS acknowledges all requirements and will comply with all such requirements as started in the bid. SynapSiS will also submit a detailed project plan, to be approved by Lake Land College, prior to project kickoff.

Key highlights of our solution include:

- Video Conferencing roadmap for proven, long term use and REDS expansion
- "Best in Class" H.323/SIP video conferencing technology
- Standards based system that easily connects with Zoom, Pexip, Cisco, TEAMS etc.
- User friendly with the power of integrated collaborative technology
- 3-year Warranty and device replacement
- Exclusive Lake Land College online "course posting" page and access to the RISE Portal at **No Cost**
- "Train the Trainer" Program at **No Cost**
- Offsite Polycom Bootcamp training for 1 Lake Land College Systems Engineer at **No Cost** charge that includes travel expenses
- Customizable room solutions that fit any space including conference rooms

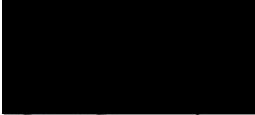


We appreciate the opportunity to propose this solution to meet your Hyflex classroom goals and objectives. Our team greatly values the opportunity to serve you as a client, and

your business is especially important to us. We look forward to discussing the merits of this proposal with you during the evaluation period.

Thank you again for the opportunity to provide this proposal. We have committed ourselves to your success and look forward to working with you and your team on this important project and earning your valued business.

Sincerely,



Sean Brown, Vice President Government, Education, Healthcare  
SynapSiS, Inc.

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## Company Overview

SynapSiS, Inc., a State of Illinois certified MBE/BEP technology integration and services company is headquartered in Springfield, Illinois. Since our founding, SynapSiS has been a leader in providing IT business and technology solutions to clients across the United States with a commitment to continued excellence and innovation. SynapSiS has a successful track record of delivering IT solutions with over 500 consultants and current operations in over 28 States. SynapSiS has established a framework that provides significant capability and customer support through our Center for Project Performance. SynapSiS boasts a 93% customer retention rate, which reflects our level of technical depth, customer experience and commitment to excellence in delivery.

## RISE

In 2016, RISE [Rural Illinois Shared Education] was created by SynapSiS, Inc., to provide an interactive and highly collaborative classroom video conferencing network to encourage resource sharing for schools, virtual classrooms, and professional development for teachers and administrators. The RISE network was designed to resolve the problems with rurality, teacher shortages, and the inability of funding to keep pace with rising costs which has put pressure on districts to reduce costs and eliminate classes. We realized that we must maintain core educational services; however, educational programs that are considered elective, such as advanced STEM courses, AP and Dual Credit Courses, and courses such as computer programming, are often reduced due to budget constraints, low student enrollment, and technology and student travel constraints. The solution to these challenges is to collaborate with other districts as well as through partners such as Lake Land College and their REDS program for specific classes and learning activities.

The lack of educational opportunities and the marriage of RISE and REDS is the perfect storm. A study conducted in rural upstate New York determined that students in high schools with enrollment above 1,200 students received nearly three times the number of Advanced Placement, International Baccalaureate, or Dual Credit College courses<sup>1</sup> as high schools with less than 400 students. In this same study, high schools with 800 students received approximately half of these same opportunities. Both REDS and RISE address this problem.

The study summarized that there was a direct relationship between high school enrollment and the range of course offerings, and that schools with larger enrollments have more educational opportunities. Based on the fact projected enrollment is expected to decline for many of our high schools, continuing attention should be given to the opportunities that will be available to students. Maintaining the current level of course offerings, and even expanding those offerings, will be next to impossible without the collaboration with Lake Land College.

Students in the small rural schools in Illinois have an educational opportunity gap due to small district size, rural location, and lack of funding. The school districts cannot as single districts provide all the educational opportunities that are afforded to students in larger, better-funded districts. Many High Schools, if not all, lack the content area teachers that are necessary to provide students with high-quality instruction on such

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<sup>1</sup> Pryor, K., Saunders, J. (2012). Ontario County Regional High Schools Feasibility Study: Options for Addressing Rising Cost and Shrinking Enrollment. Center for Government Research



topics and computer coding, science, engineering, and other topics which will lead to jobs in high-demand occupations. In addition, with a RISE fully integrated classroom design, Lake Land College will not only provide courses to the traditional, but also the nontraditional student.

The RISE network will benefit hundreds of high school students in thirty-eight [over seventy by the winter of 2021] rural schools by enhancing and expanding their educational opportunities. At present seven current RISE members [Altamont, Cowden-Herrick, Martinsville, Oakland, Ramsey, St. Elmo, Windsor] fall into the Lake Land College region with three additional districts [Neoga, Beecher City, Dietrich] joining the network in the winter of 2021. This constitutes one-third of the Lake Land College region. Each of these districts have either a Type A, or customized Type C fully functioning Hyflex classroom solution to receive instruction from Lake Land College. Type B was designed specifically for Lake Land College. The success of our solution at the district level is simple because it is a “click and go” and highly collaborative solution. Lake Land College currently employs a Type A RISE classroom for its REDS program on the main campus.

As stated, our RISE classroom is designed for ease of use while also maintaining a best-in-class user experience for both the instructor, the far end students, and the near end students. Our solution provides the requirements needed for a comfortable, highly collaborative, and highly integrated room system. In addition, our proposed room solution types for the expansion of the REDS program are designed to be customizable based on actual room requirements. Each classroom has its own physical and functional requirements, which we will take into consideration, with the help of the Lake Land College staff. We will work with your departments on the optimal solution to fit their individual needs; however, we have provided three types of rooms that we feel will fill those needs. Please note that in some cases we will be able to reduce ancillary equipment such as microphones to reduce the proposed costs per room.

### Hyflex Classroom Solutions

Our Hyflex classroom solution types include robust technology that meet Lake Land College’s objective to expand the REDS program by offering educational opportunities, provide ongoing, sustained professional development for instructors and the utilization of best-in-class technology to support best practices in teaching and learning. This is possible by the functionality and quality of the equipment that we are proposing, which allows for highly interactive and collaborative environments managed by a single Polycom Touch Control device.

We strongly believe that no classroom and subject area are alike. For instance, a room design that works best in a chemistry class may not be the optimal solution for a speech class. Multiple classroom solution options provide an opportunity to make selections that best fit a classroom based on room layout, size, and subject areas that may be taught in that space. We recommend a detailed walkthrough to document both classrooms and any additional conference rooms that Lake Land College would like to integrate. This process serves as both best practices for room utilization as well as a project cost savings exercise.

#### A. Lecture Hall Type A: Dual EagleEye Director II

The Dual EagleEye Director II solution is designed to be the optimum instructional solution in a standard size [32'x32'] classroom. Each EED II houses 3 cameras [2 EagleEye IV 12X and 1 wide angle room view camera], giving each room a total of 6 total cameras. No part of the classroom goes unseen, or unheard with the addition of the Polycom Ceiling Microphones. This solution enables instructors to move around the classroom without the worry of not being seen in real time. The cameras and the Pano wireless content share provide the far end students with live synchronous instruction while near end students participate and interact with the far end students. This gives all the students the experience of being in the same classroom. The added Polycom Touch Control device makes placing a call and sharing content quick and easy, providing instructors with the ease of use they are looking for.

This solution includes the following equipment:

- 2 Polycom EagleEye Director II Cameras
- Polycom Group Series 500 H.323/SIP codec
- Polycom Pano Content Share Wireless Controller
- 2 Polycom Ceiling Microphones
- Dell 70" Interactive Front Touch Panel
- Optional 70" Front Facing Monitor
- TCL 65" Rear Facing Monitor
- Polycom Touch Control
- Installation & Maintenance
- User Training & Support

#### B. Lecture Hall Type B: Single EagleEye Director II

The single EagleEye Director II camera is an exact copy of Type A minus 1 EagleEye Director Camera. The solution is also designed to be a secondary, optimal instructional solution for classrooms. The single EED II camera houses 3 cameras mounted at the rear of the classroom. The majority of the classroom is captured with the main focus on the instructor and the front of the room. Much like the Type A solution, this solution enables instructors to move around the classroom without the concern that the students on the far end will not experience real time instruction.

This solution includes the following equipment:

- Single Polycom EagleEye Director II Camera
- Polycom Group Series 500 H.323/SIP codec
- Polycom Pano Content Share Wireless Controller
- 2 Polycom Ceiling Microphones
- Dell 70" Interactive Touch Panel
- Optional 70" Front Facing Monitor



- TCL 65" Rear Facing Monitor
- Polycom Touch Control
- Installation & Maintenance
- User Training & Support

#### C. Lecture Hall Type C: Single EagleEye IV Camera

The single EagleEye IV camera with 4x, or optional 12x zoom camera, is the optimum instructional solution for courses with labs, demonstrations and larger classrooms that exceed the square footage restrictions of an EagleEye Director solution. The EagleEye IV camera has powerful zoom capabilities that can be adjusted to any location in the classroom. With the camera mounted in the back of the classroom, movements in the classroom are captured with the default room view. With the option of setting up to 10 preset camera locations, the instructor can utilize the camera's zoom capabilities to highlight different aspects of their instruction. Like the other two solutions, the far end students will receive high quality live synchronous instruction giving them the experience of being in the classroom without physically being there. The added Polycom Touch Control makes placing a call, setting presets, and sharing content quick and easy, providing instructors with the ease of use they are looking for in their classroom.

This solution includes the following equipment:

- Single EagleEye 4x zoom Camera
- Polycom Group Series 500 H.323/SIP codec
- Polycom Pano Content Share Wireless Controller
- 2 Polycom Ceiling Microphones
- Dell 70" Interactive Touch Panel
- Optional 70" Front Facing Monitor
- TCL 65" Rear Facing Monitor
- Polycom Touch Control
- Installation & Maintenance
- User Training & Support

#### RISE Portal – No Charge

The RISE network has an online portal exclusive to RISE members. The portal was created as a means of communication between the RISE members. On the portal, districts can post course needs and course offerings to establish course sharing partnerships. In addition, instructional resources are also provided for teachers if they wish to enhance their curriculum. We are extending access to the portal along with a custom page designed exclusively for the Lake Land College REDS dual credit program. This will be provided to Lake Land College at no cost. This page can be utilized to post dual credit and course offerings, communicate news, and advertise certifications and 2-year programs.

### Technical Training – No Charge

Technical training will be set up as train-the-trainer model. Trainers will receive extensive training on how the system works, how to use the system, and trouble shooting. The REDS training program is an immersive, hands on course that requires attendees to practice and demonstrate their skills to ensure that they are ready to train other instructors at Lake Land College. Quick start guides, “how-to” videos and other materials will be provided. Training will consist of 2 sessions that last approximately 3 hours per session. In addition, a RISE team member will be onsite to assist instructors and technical staff during the first week of “go live.”

### Detailed Pricing

#### A. Lecture Hall Type A: Dual EagleEye Director II

| Lecture Hall Type A: Dual EagleEye Director II |  | Cost      |           |
|--|--|-----------|-----------|
| Quantity                                       | Equipment  | Unit      | Total     |
| 1  | <b>Poly RealPresence Group Series 500</b> ; codec only. RealPresence Group 500-720/1080p SIP/H.323 codec Poly Group Series 500 video conferencing technology will allow each school to receive, and Lake Land College to deliver distance learning. This solution is an affordable, room integrated 720/1080p HD visual communication technology for high quality, HD distance learning sessions that supports both people and content. The technology allows for live real-time distance learning classes between remote teachers and students. The technology also can share images and rich-media content which enhances the students to experience quality interactions with participants. See the attached product specification sheet. | \$7500.00 | \$7500.00 |
| 1  | <b>Onsite installation, RealPresence Group Series 500</b> - provides installation to include integration into the network, internet, and physical room of the Group Series 500.  | \$1200.00 | \$1200.00 |
| 1  | <b>Total Coverage, Group Series 500, Three Year Warranty Maintenance and Part Replacement</b> - codec only. This support and service provide access to experts and support for the first three years of the project so that we can properly deploy the new RPG 500. Provides analytics on video utilization and benchmarking. Provides priority 24 x 7 telephone support and access to technical experts and online support tools for instructors and campus information technology staff. Provides  | \$1800.00 | \$1800.00 |



|   |  |           |           |
|---|--|-----------|-----------|
|   | advance parts replacement. Provides access to adoption portal that provides quick insight on usage and advanced usage.   |           |           |
| 1 | <b>Pano Wireless Presentation System/Content Share</b> - allows instructors or students to connect their device with no cables or application to video output for up to four simultaneous streams of high-definition content to allow for People and Content in the same data stream. Please see attached specification sheet. | \$1690.00 | \$1690.00 |
| 1 | <b>Onsite Installation, Pano.</b> Includes the installation, configuration, integration with Group Series 500 and testing of one (1) Pano Box at a single customer address.  | \$1100.00 | \$1100.00 |
| 1 | <b>Total Coverage, Three Year Warranty Maintenance, Polycom Pano Wireless Presentation System</b> - provides 3 years of service and support, to include experts on the deployment of the device.   | \$1200.00 | \$1200.00 |
| 1 | <b>Polycom Touch Control</b> - for use with Group 500 and allows for click and go easy connection. Provides user touch controls of the video conferencing system. Has a 7-inch color touch screen. Allows touch control of content-sharing to allow "People and Content". Please see attaches specifications sheet.            | \$1399.00 | \$1399.00 |
| 1 | <b>Onsite Installation, Polycom Touch Control</b> - Includes the installation, configuration, integration with the Group Series 500 and testing of one (1) Touch Control at a single customer address.   | \$800.00  | \$800.00  |
| 1 | <b>PoE Injector for Polycom Touch Control</b> - The Polycom Power Kit for the Polycom Touch Control supplies power to the Touch Control. The kit includes a midspan, AC power cord and Ethernet cable for powering the device.   | \$109.00  | \$109.00  |
| 1 | <b>HDMI Split Deck 1X2-</b> Provides video source on two separate HDMI displays [rear and front] simultaneously with support for resolutions up to 4K. Only used with optional second display.   | \$75.00   | \$75.00   |
| 1 | <b>15' HDMI Cable-</b> Provides connectivity to second front facing monitor to the Group Series 500. Only used with optional second display.   | \$22.00   | \$22.00   |
| 1 | <b>50' CAT6 Patch Cable</b> – RJ45 connectors allows for connecting 2 EagleEye Directors to Group Series 500.  | \$17.00   | \$17.00   |
| 1 | <b>50' Directional HDMI Fiber Cable</b> - provides a direct high speed HDMI connection from the Group Series 500 to the rear mounted TV/Monitor. Also provides connection from HDMI  | \$120.00  | \$120.00  |



|   |   |           |             |
|---|---|-----------|-------------|
|   | Split Deck to rear monitor if second optional front monitor is utilized.  |           |             |
| 1 | <b>Ceiling Microphone Array - White "Extension" Kit:</b> Includes 2ft/60cm drop cable, electronics interface, 25ft/7.6m plenum cable. Provides an extension microphone that provides 360 degree high-definition audio microphones. Allows students and teachers to interact auditorily across the distance learning network. Please see attached specification sheet.   | \$1139.00 | \$1139.00   |
| 1 | <b>Ceiling Microphone Array-White "Primary".</b> Includes 2ft/60cm drop cable, electronics Interface, wall plate with 10ft/3m and 50ft/15m plenum cable, RJ45(F)/Walta(M). Provides a 360-degree high-definition audio microphones. Allows students and teachers to interact auditorily across the distance learning network.   | \$1139.00 | \$1139.00   |
| 1 | <b>Onsite installation of Ceiling Microphone arrays.</b> Provides installation of the microphones, room integration, Group Series 500 integration and testing.  | \$1200.00 | \$1200.00   |
| 2 | <b>EagleEye Director II Cameras, with 2 EEIV-12x cameras per unit.</b> The camera provides sharp HD video up to 1080psi. Provides quick 12X zoom and auto-focus on active speaker to ensure a good view of the speaker. The cameras also provide a 180-degree panning radius and 65 degree viewing angle wide viewing angle and allows students to interact with the distant site Professor. Please see attached specification sheet. | \$7800.00 | \$15,600.00 |
| 2 | <b>Total Coverage, 3 Year Warranty Maintenance, EagleEye Director II Camera, Base only.</b> Provides 3 year of service and support, to include experts on the deployment of the device.   | \$800.00  | \$1600.00   |
| 1 | <b>Onsite Installation of 2 EagleEye Director II -</b> Provides installation of the cameras and integration with Group Series 500.  | \$1300.00 | \$1300.00   |
| 1 | <b>Slide WALL MOUNT for GS500 and Pano wireless content share.</b> Provides a mount that sits behind the 70" Dell Monitor for both the Group Series 500 and the Pano device.  | \$110.00  | \$110.00    |
| 2 | <b>Medium Fusion Mount-Wall Mount</b> for rear 65-inch display. Provides a mount for two LED monitors.  | \$123.00  | \$246.00    |
| 1 | <b>Dell C7017T - 70" Class (69.513" viewable) LED display - interactive communication - 1080p (Full HD) 1920 x 1080 - black - with 3 years Advanced Exchange; includes wall mount.</b> The 70" Interactive LED display that provides users with a stylus or finger interactive touch screen with 10-point touch   | \$2705.00 | \$2705.00   |

|   |   |          |                    |
|---|---|----------|--------------------|
|   | interactive capabilities for multiple users. Provides the ability to share interactive content at both hub and end-user sites without a PC. Includes pre-installed annotation software. The display is also a computer with a built-in dual core processor and 8GB internal storage, in addition to integrated versatile connectivity which includes HDMI, VGA, CVBS, RS232, RJ45 and USB ports. The 70" interactive Touchscreen Display also presents powerful computing for annotations, web-surfing and multi-media playback without the demand of a PC. |          |                    |
| 1 | <b>Monitor Installation</b> - provides installation of the monitor brackets, mounts and hanging of the monitors.  | \$600.00 | \$600.00           |
| 1 | <b>TCL 65" Series - CLASS Led rear facing monitor Display.</b> Mounted at the rear of the room, this monitor allows the instructor a view of the far classroom/students.  | \$700.00 | \$700.00           |
| 1 | <b>Vizio 70" Series – CLASS Led front facing monitor Display.</b> Optional Monitor mounted at the front of the room; this monitor allows the near students to view the far end classroom/students.  | \$900.00 | \$900.00           |
| 1 | <b>Vizio HT - SOUND BAR - FOR TV – WIRELESS.</b> Provides high-quality audio for instruction hall/classroom.  | \$145.00 | \$145.00           |
| 3 | <b>Surge Protector with 9' Power Cord</b> - provides reliable, convenient and cost-effective power distribution for the Polycom Equipment. Multi-outlet design reduces cable clutter and enables the connection of multiple electrical devices to a single AC wall socket.  | \$39.00  | \$117.00           |
| 4 | <b>Legrand Wall Plates to include Brush and CAT6 with RJ45 Keystone:</b> provides safety and secures wires in the classroom.  | \$39.00  | \$156.00           |
|   | <b>Total</b>  |          | <b>\$44,689.00</b> |

#### B. Lecture Hall Type B: Single EagleEye Director II

| Lecture Hall Type B: Single EagleEye Director II |  | Cost      |           |
|--|--|-----------|-----------|
| Quantity   | Equipment  | Unit      | Total     |
| 1  | <b>Poly RealPresence Group Series 500;</b> codec only. RealPresence Group 500-720/1080p SIP/H.323 codec Poly Group Series 500 video conferencing technology will allow each school to receive, and Lake Land College to deliver distance learning. This solution | \$7500.00 | \$7500.00 |



|   |  |           |           |
|---|--|-----------|-----------|
|   | is an affordable, room integrated 720/1080p HD visual communication technology for high quality, HD distance learning sessions that supports both people and content. The technology allows for live real-time distance learning classes between remote teachers and students. The technology also can share images and rich-media content which enhances the students to experience quality interactions with participants. See the attached product specification sheet.   |           |           |
| 1 | <b>Onsite installation, RealPresence Group Series 500</b> - provides installation to include integration into the network, internet, and physical room of the Group Series 500.  | \$1200.00 | \$1200.00 |
| 1 | <b>Total Coverage, Group Series 500, Three Year Warranty Maintenance and Part Replacement</b> - codec only. This support and service provide access to experts and support for the first three years of the project so that we can properly deploy the new RPG 500. Provides analytics on video utilization and benchmarking. Provides priority 24 x 7 telephone support and access to technical experts and online support tools for instructors and campus information technology staff. Provides advance parts replacement. Provides access to adoption portal that provides quick insight on usage and advanced usage. | \$1800.00 | \$1800.00 |
| 1 | <b>Pano Wireless Presentation System/Content Share</b> - allows instructors or students to connect their device with no cables or application to video output for up to four simultaneous streams of high-definition content to allow for People and Content in the same data stream. Please see attached specification sheet.   | \$1690.00 | \$1690.00 |
| 1 | <b>Onsite Installation, Pano.</b> Includes the installation, configuration, integration with Group Series 500 and testing of one (1) Pano Box at a single customer address.  | \$1100.00 | \$1100.00 |
| 1 | <b>Total Coverage, Three Year Warranty Maintenance, Polycom Pano Wireless Presentation System</b> - provides 3 years of service and support, to include experts on the deployment of the device.   | \$1200.00 | \$1200.00 |
| 1 | <b>Polycom Touch Control</b> - for use with Group 500 and allows for click and go easy connection. Provides user touch controls of the video conferencing system. Has a 7-inch color touch screen. Allows touch control of content-sharing to allow "People and Content". Please see attaches specifications sheet.  | \$1399.00 | \$1399.00 |

|   |  |           |           |
|---|--|-----------|-----------|
| 1 | <b>Onsite Installation, Polycom Touch Control</b> - Includes the installation, configuration, integration with the Group Series 500 and testing of one (1) Touch Control at a single customer address.   | \$800.00  | \$800.00  |
| 1 | <b>PoE Injector for Polycom Touch Control</b> - The Polycom Power Kit for the Polycom Touch Control supplies power to the Touch Control. The kit includes a midspan, AC power cord and Ethernet cable for powering the device.   | \$109.00  | \$109.00  |
| 1 | <b>Poly Digital Extender</b> - provides the flexibility of your video conference needs by mounting your EagleEye IV cameras up to 330 feet away from your Group Series system. The digital extender provides a separate power supply for the connection between the camera and video conferencing system, letting you extend the cable length between the two ends of the system over CAT6 cable. Used to mount the camera and extend the HDCI signal from the rear of the room. | \$1350.00 | \$1350.00 |
| 1 | <b>Onsite Installation, Digital Extender.</b> Includes the installation, configuration, integration, and testing of one (1) Digital Extender at a single customer address.   | \$300.00  | \$300.00  |
| 2 | <b>50' CAT6 Patch Cable</b> – RJ45 connectors allows for connecting Digital Extender to Group Series 500.  | \$17.00   | \$34.00   |
| 1 | <b>50' Directional HDMI Fiber Cable</b> - provides a direct high speed HDMI connection from the Group Series 500 to the rear mounted TV/Monitor.   | \$120.00  | \$120.00  |
| 2 | <b>50' RCA 2M/2F Cable</b> - used to connect the Group Series 500 system to the Polycom EagleEye Director II camera and the room audio playback system. It is dual male RCA connectors (used with the EagleEye Director II dual stereo adapter for the Group Series 500 codec) a 3.5 mm male connector (for the EagleEye Director II) and dual female RCA connectors (for the room audio playback system).   | \$35.00   | \$70.00   |
| 1 | <b>Ceiling Microphone Array - White "Extension" Kit:</b> Includes 2ft/60cm drop cable, electronics interface, 25ft/7.6m plenum cable. Provides an extension microphone that provides 360 degree high-definition audio microphones. Allows students and teachers to interact auditorily across the distance learning network. Please see attached specification sheet.  | \$1139.00 | \$1139.00 |
| 1 | <b>Ceiling Microphone Array-White "Primary".</b> Includes 2ft/60cm drop cable, electronics Interface, wall plate with 10ft/3m and 50ft/15m plenum cable, RJ45(F)/Walta(M). Provides a 360-   | \$1139.00 | \$1139.00 |



|   |   |           |           |
|---|---|-----------|-----------|
|   | degree high-definition audio microphones. Allows students and teachers to interact auditorily across the distance learning network.   |           |           |
| 1 | <b>Onsite installation of Ceiling Microphone arrays.</b> Provides installation of the microphones.  | \$1200.00 | \$1200.00 |
| 1 | <b>EagleEye Director II Cameras, with 2 EEIV-12x cameras per unit.</b> The camera provides sharp HD video up to 1080psi. Provides quick 12X zoom and auto-focus on active speaker to ensure a good view of the speaker. The cameras also provide a 180-degree panning radius and 65 degree viewing angle wide viewing angle and allows students to interact with the distant site Professor.  | \$7800.00 | \$7800.00 |
| 1 | <b>Total Coverage, 3 Year Warranty Maintenance, EagleEye Director II Camera, Base only.</b> Provides 3 year of service and support, to include experts on the deployment of the device.   | \$900.00  | \$900.00  |
| 1 | <b>Onsite Installation of EagleEye Director II</b> - Provides installation of the cameras and integration with Group Series 500.  | \$800.00  | \$800.00  |
| 1 | <b>Slide WALL MOUNT for GS500 and Pano wireless content share.</b> Provides a mount that sits behind the 70" Dell Monitor for both the Group Series 500 and the Pano device.  | \$110.00  | \$110.00  |
| 1 | <b>Medium Fusion Mount-Wall Mount</b> for rear 65-inch display. Provides a mount for LED monitors.  | \$123.00  | \$123.00  |
| 1 | <b>Dell C7017T - 70" Class (69.513" viewable) LED display - interactive communication</b> - 1080p (Full HD) 1920 x 1080 - black - with 3 years Advanced Exchange; includes wall mount. The 70" Interactive LED display that provides users with a stylus or finger interactive touch screen with 10-point touch interactive capabilities for multiple users. Provides the ability to share interactive content at both hub and end-user sites without a PC. Includes pre-installed annotation software. The display is also a computer with a built-in dual core processor and 8GB internal storage, in addition to integrated versatile connectivity which includes HDMI, VGA, CVBS, RS232, RJ45 and USB ports. The 70" interactive Touchscreen Display also presents powerful computing for annotations, web-surfing and multi-media playback without the demand of a PC. | \$2705.00 | \$2705.00 |
| 1 | <b>TCL 65" Series - CLASS Led rear facing monitor Display.</b> Mounted at the rear of the room, this monitor allows the instructor a view of the far classroom/students.  | \$700.00  | \$700.00  |



|   |  |          |                    |
|---|--|----------|--------------------|
| 1 | <b>Monitor Installation</b> - provides installation of the monitor brackets, mounts and hanging of the monitors.   | \$600.00 | \$600.00           |
| 1 | <b>Vizio HT - SOUND BAR - FOR TV – WIRELESS.</b> Provides high-quality audio for instruction hall/classroom.   | \$145.00 | \$145.00           |
| 2 | <b>Surge Protector with 9' Power Cord</b> - provides reliable, convenient and cost-effective power distribution for the Polycom Equipment. Multi-outlet design reduces cable clutter and enables the connection of multiple electrical devices to a single AC wall socket. | \$39.00  | \$78.00            |
| 3 | <b>Legrand Wall Plates to include Brush and CAT6 with RJ45 Keystone:</b> provides safety and secures wires in the classroom.   | \$39.00  | \$117.00           |
|   | <b>Total</b>   |          | <b>\$36,228.00</b> |

#### C. Lecture Hall Type C: Single EagleEye IV Camera

| Lecture Hall Type C: Single EagleEye IV Camera |  | Cost      |           |
|--|--|-----------|-----------|
| Quantity                                       | Equipment  | Unit      | Total     |
| 1  | <b>RealPresence Group 500-720p Collaboration Kit:</b> Includes Group 500 HD codec, EagleEyeIV-4x camera, mic array, and univ. remote. Cables: 2 HDMI 1.8m, 1 CAT 5E LAN 3.6m, 1 HDCI digital 3m, Power: AMER-Type B, NEMA 5-15. Maintenance Contract Required. The RealPresence Group 500-720p Codec Poly HDX 700 video conferencing technology will allow each school to receive and deliver distance learning. This solution is an affordable 720p HD visual communication technology for high quality, HD distance learning sessions. The technology allows for live real-time distance learning classes between remote teachers and students. The technology also can share images and rich-media content which enhances the students to experience quality interactions with participants. The system includes a 500 HD codec, EagleEye IV-4x HD Camera, desktop microphone array, power supply, 2 HDMI cables, and camera cable. See the attached product specification sheet. | \$7900.00 | \$7900.00 |
| 1  | <b>Onsite installation, RealPresence Group Series 500</b> - provides installation to include integration into the network, internet, and physical room of the Group Series 500.  | \$1200.00 | \$1200.00 |

|   |   |           |           |
|---|---|-----------|-----------|
| 1 | <b>Total Coverage, Group Series 500, Three Year Warranty Maintenance and Part Replacement – Collaboration Kit.</b> This support and service provide access to experts and support for the first three years of the project so that we can properly deploy the new RPG 500. Provides analytics on video utilization and benchmarking. Provides priority 24 x 7 telephone support and access to technical experts and online support tools for instructors and campus information technology staff. Provides advance parts replacement. Provides access to adoption portal that provides quick insight on usage and advanced usage. | \$1800.00 | \$1800.00 |
| 1 | <b>Pano Wireless Presentation System/Content Share</b> - allows instructors or students to connect their device with no cables or application to video output for up to four simultaneous streams of high-definition content to allow for People and Content in the same data stream. Please see attached specification sheet.  | \$1690.00 | \$1690.00 |
| 1 | <b>Onsite Installation, Pano.</b> Includes the installation, configuration, integration, and testing of one (1) Pano Box at a single customer address.  | \$1100.00 | \$1100.00 |
| 1 | <b>Total Coverage, Three Year Warranty Maintenance, Polycom Pano Wireless Presentation System</b> - provides 3 years of service and support, to include experts on the deployment of the device.  | \$1200.00 | \$1200.00 |
| 1 | <b>Polycom Touch Control</b> - for use with Group 500 and allows for click and go easy connection. Provides user touch controls of the video conferencing system. Has a 7-inch color touch screen. Allows touch control of content-sharing to allow "People and Content". Please see attaches specifications sheet.   | \$1399.00 | \$1399.00 |
| 1 | <b>PoE Injector for Polycom Touch Control</b> - The Polycom Power Kit for the Polycom Touch Control supplies power to the Touch Control. The kit includes a midspan, AC power cord and Ethernet cable for powering the device.  | \$109.00  | \$109.00  |
| 1 | <b>Poly Digital Extender</b> - provides the flexibility of your video conference needs by mounting your EagleEye IV cameras up to 330 feet away from your Group Series system. The digital extender provides a separate power supply for the connection between the camera and video conferencing system, letting you extend the cable length between the two ends of the system over CAT6 cable. Used to mount the camera and extend the HDCI signal from the rear of the room.  | \$1350.00 | \$1350.00 |



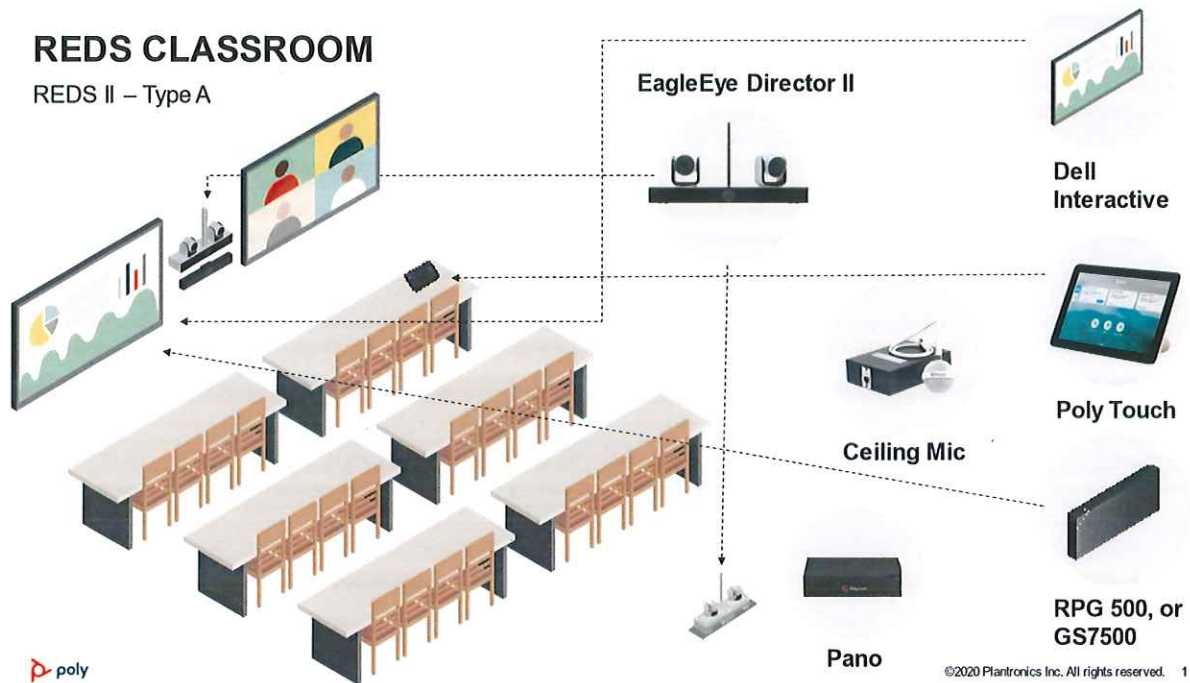
|   |  |           |           |
|---|--|-----------|-----------|
| 1 | <b>Onsite Installation, Digital Extender.</b> Includes the installation, configuration, integration, and testing of one (1) Digital Extender at a single customer address.   | \$300.00  | \$300.00  |
| 1 | <b>50' CAT6 Patch Cable</b> – RJ45 connectors allows for connecting Digital Extender to Group Series 500.  | \$17.00   | \$17.00   |
| 1 | <b>50' Directional HDMI Fiber Cable</b> - provides a direct high speed HDMI connection from the Group Series 500 to the rear mounted TV/Monitor.   | \$120.00  | \$120.00  |
| 1 | <b>Polycom Universal Camera Mount</b> - Provides a mount for the Polycom EagleEye IV camera with the Polycom Camera Mounting Kit. It is designed for use with EagleEye IV 4x and 12x cameras. Camera will be mounted at the rear of the classroom.   | \$155.00  | \$155.00  |
| 1 | <b>Ceiling Microphone Array - White "Extension" Kit:</b> Includes 2ft/60cm drop cable, electronics interface, 25ft/7.6m plenum cable. Provides an extension microphone that provides 360 degree high-definition audio microphones. Allows students and teachers to interact auditorily across the distance learning network. Please see attached specification sheet.  | \$1139.00 | \$1139.00 |
| 1 | <b>Ceiling Microphone Array-White "Primary".</b> Includes 2ft/60cm drop cable, electronics Interface, wall plate with 10ft/3m and 50ft/15m plenum cable, RJ45(F)/Walta(M). Provides a 360-degree high-definition audio microphones. Allows students and teachers to interact auditorily across the distance learning network.  | \$1139.00 | \$1139.00 |
| 1 | <b>Onsite installation of Ceiling Microphone arrays.</b> Provides installation of the microphones.   | \$1200.00 | \$1200.00 |
| 1 | <b>Slide WALL MOUNT for GS500 and Pano wireless content share.</b> Provides a mount that sits behind the 70" Dell Monitor for both the Group Series 500 and the Pano device.   | \$110.00  | \$110.00  |
| 1 | <b>Medium Fusion Mount-Wall Mount</b> for rear 65-inch display. Provides a mount for two LED monitors.   | \$123.00  | \$123.00  |
| 1 | <b>Dell C7017T - 70" Class (69.513" viewable) LED display - interactive communication</b> - 1080p (Full HD) 1920 x 1080 - black - with 3 years Advanced Exchange; includes wall mount. The 70" Interactive LED display that provides users with a stylus or finger interactive touch screen with 10-point touch interactive capabilities for multiple users. Provides the ability to share interactive content at both hub and end-user sites without a PC. Includes pre-installed annotation software. The display is also a computer with a built-in dual core processor | \$2705.00 | \$2705.00 |

|   |  |          |                    |
|---|--|----------|--------------------|
|   | and 8GB internal storage, in addition to integrated versatile connectivity which includes HDMI, VGA, CVBS, RS232, RJ45 and USB ports. The 70" interactive Touchscreen Display also presents powerful computing for annotations, web-surfing and multi-media playback without the demand of a PC. |          |                    |
| 1 | <b>TCL 65" Series - CLASS Led rear facing monitor Display.</b><br>Mounted at the rear of the room, this monitor allows the instructor a view of the far classroom/students.  | \$700.00 | \$700.00           |
| 1 | <b>Monitor Installation</b> - provides installation of the monitor brackets, mounts and hanging of the monitors.   | \$600.00 | \$600.00           |
| 1 | <b>Vizio HT - SOUND BAR - FOR TV – WIRELESS.</b> Provides high-quality audio for instruction hall/classroom.   | \$145.00 | \$145.00           |
| 2 | <b>Surge Protector with 9' Power Cord</b> - provides reliable, convenient and cost-effective power distribution for the Polycom Equipment. Multi-outlet design reduces cable clutter and enables the connection of multiple electrical devices to a single AC wall socket.                       | \$39.00  | \$78.00            |
| 4 | <b>Legrand Wall Plates to include Brush and CAT6 with RJ45 Keystone:</b> provides safety and secures wires in the classroom.   | \$39.00  | \$156.00           |
|   | <b>Total</b>   |          | <b>\$26,435.00</b> |

## Addendum: Solution Renderings

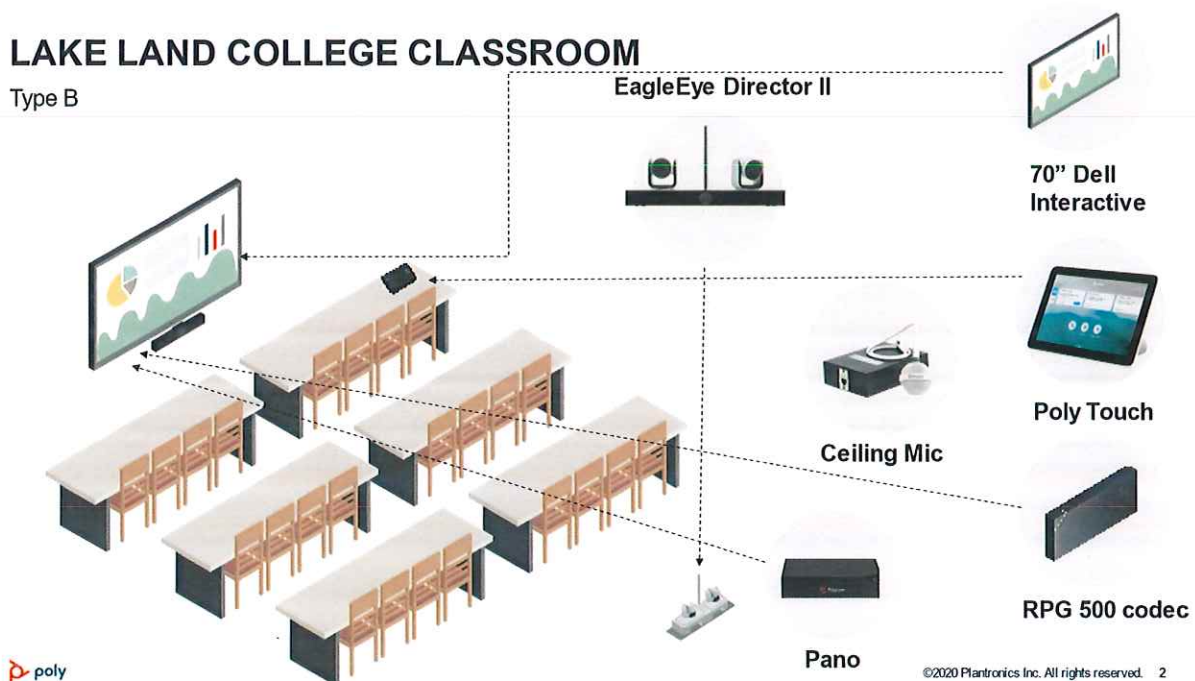
### REDS CLASSROOM

REDS II – Type A



### LAKE LAND COLLEGE CLASSROOM

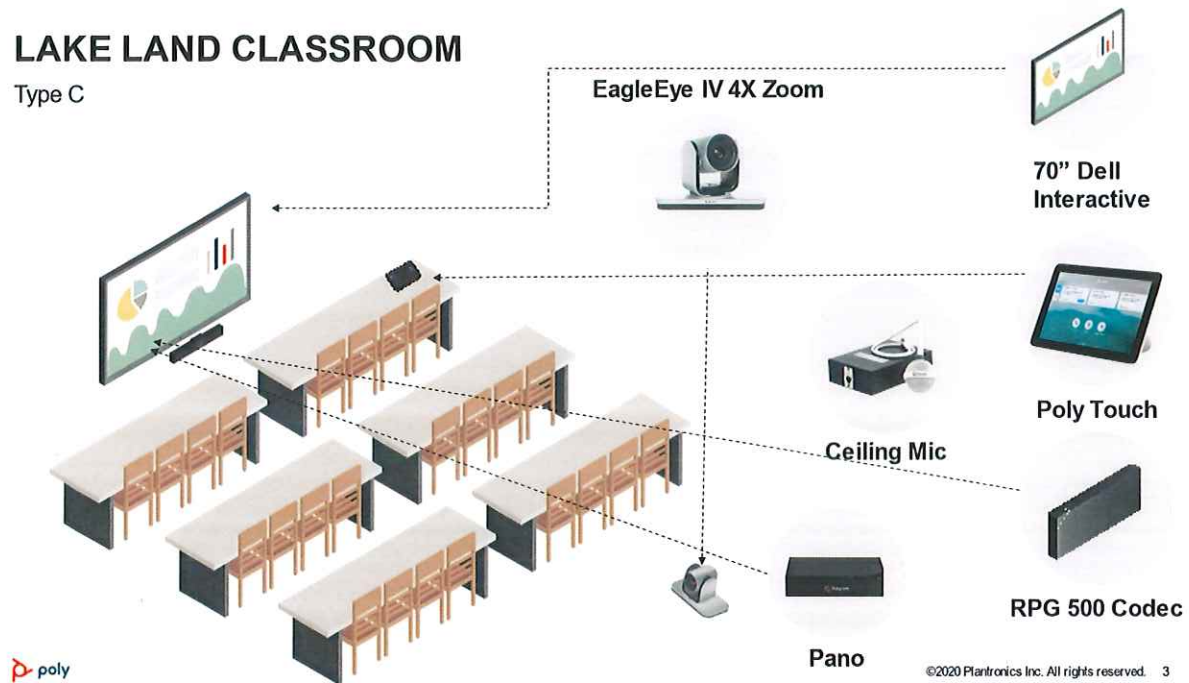
Type B





## LAKE LAND CLASSROOM

Type C



## TYPICAL CLASSROOM LAYOUT CEILING MICROPHONES-360 DEGREES



## LAKE LAND COLLEGE LARGE CONFERENCE ROOM







## DATA SHEET

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# Polycom® RealPresence® Group 500

Powerful video collaboration for group conferences  
in a sleek design that is simple to use

The Polycom® RealPresence® Group 500 solution is ideal for conference rooms and other collaborative environments, from small meeting rooms to larger rooms with dual screens. Powerful video and audio performance and interactive content collaboration bring users closer together and drive meaningful conversation for geographically dispersed teams. The compact, sleek design is easily hidden out of sight, keeping your rooms clutter-free.

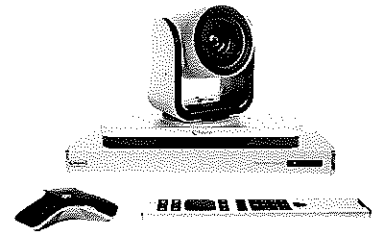
Effectively sharing and collaborating with content across disparate teams is critical. With the Polycom® RealPresence® Group 500 solution there are multiple ways to share and collaborate, allowing each team to use the method most suited to their needs and style. From whiteboarding, to annotating, to sharing applications and programs on a computer or tablet—all can be included as part of a comprehensive, collaborative video session.

Conference rooms come in all shapes and sizes, but it is important to deliver a great experience for all participants, no matter the size of the room. The Polycom® RealPresence® Group 500 solution offers flexible options that ensure that all participants can see and be seen, no matter where they are sitting.

- Polycom® EagleEye™ Producer uses innovative facial-tracking algorithms to accurately frame all room participants, eliminating the “bowling alley” view that is all too common in video calls
- For a more immersive experience, Polycom® EagleEye™ Director automatically zooms in on the person speaking, transmitting facial expressions and body language for higher impact and more productive video collaboration
- The Polycom® EagleEye™ IV camera offers brilliant visual clarity with a 4k sensor, and is available with 12x or 4x zoom and a wide-angle lens adapter, capturing everyone clearly even in odd-shaped rooms
- For smaller rooms, the Polycom® EagleEye™ Acoustic camera takes just seconds to mount on a flat-panel display and delivers excellent 1080p image quality

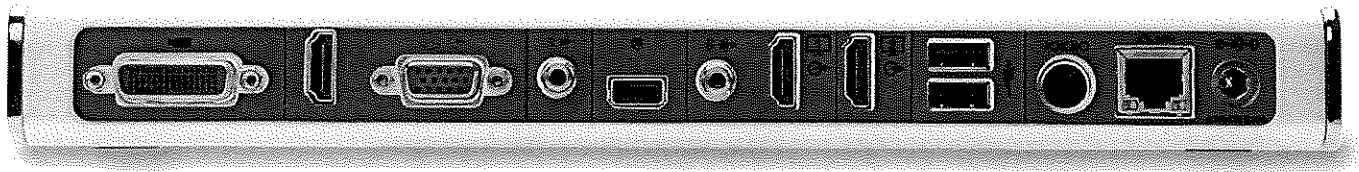
Use the optional built-in multipoint to host video calls with up to 6 participants in HD quality. Included support for dual monitors helps participants see everything more clearly for meetings with greater impact. For a turnkey solution, Polycom® RealPresence® Medialign™ solutions deliver the industry’s best video collaboration with an innovative, modern design that deploys anywhere in minutes.

For more details on the benefits of the RealPresence® Group 500, please see the RealPresence® Group Series family brochure.



## Benefits

- Flexible, interactive content collaboration so distant teams can work more closely together
- High-performance video and content quality so everyone can view and share without compromise
- Simple installation and compact design for quick and easy deployment
- Right-size the solution to meet the needs of each individual conference room with flexible camera and accessory options for the best user experience and cost-effective deployment



## Product specifications

### Package includes:

- RealPresence Group 500 codec
- Cable bundle
- Remote control
- EagleEye IV camera and RealPresence Group Microphone Array, or EagleEye Acoustic camera

### Video standards and protocols

- H.261, H.263, H.264 AVC, H.264 High Profile, H.264 SVC, RTV
- H.239/Polycom® People+Content™
- H.263 & H.264 video error concealment

### Video input

- 1 x HDCI
- 1 x HDMI 1.3
- 1 x VGA

### Video out

- 2 x HDMI 1.3

### People video resolution

- 1080p, 60 fps from 1740 Kbps
- 1080p, 30 fps from 1024 Kbps
- 720p, 60 fps from 832 Kbps
- 720p, 30 fps from 512 Kbps
- 4SIF/4CIF, 60 fps from 512 Kbps
- 4SIF/4CIF, 30 fps from 128 Kbps
- SIF (352 x 240), CIF (352 x 288) from 64 kbps
- QSIF (176 x 120), QCIF (176 x 144) from 64 kbps
- w288p from 128 Kbps
- w448 from 384 Kbps
- w576p from 512 Kbps

### Content video resolution

- Input
  - HD (1920 x 1080i), HD (1920 x 1080p)
  - WSXGA+ (1680 x 1050)
  - UXGA (1600 x 1200)
  - SXGA (1280 x 1024)
  - WXGA (1280 x 768)
  - HD (1280 x 720p), XGA (1024 x 768)
  - SVGA (800 x 600)
- Output
  - WUXGA (1920 x 1200)
  - HD (1920 x 1080)
  - WSXGA+ (1680 x 1050)
  - SXGA+ (1400 x 1050)
  - SXGA (1280 x 1024)
  - HD (1280 x 720)
  - XGA (1024 x 768)
  - VGA (640 x 480)
- Content frame rate
  - 5–60 fps (up to 1080p resolution at 60 fps)
- Content Sharing
  - People+Content and People+Content IP

### Audio input

- 1 x RealPresence Group microphone array input port (supporting a total of 4 microphone arrays)
- 1 x HDCI (camera)
- 1 x HDMI
- 1 x 3.5 mm stereo line-in

### Audio output

- 1 x HDMI
- 1 x 3.5 mm stereo line-out

### Other interfaces

- 2 x USB 2.0
- 1 x RS-232, 8-pin mini-DIN

### Audio standards and protocols

- 22 kHz bandwidth with Polycom® Siren™ 22 technology, AAC-LD (TIP calls)
- 14 kHz bandwidth with Polycom® Siren™ 14 technology, G.722.1 Annex C
- 7 kHz bandwidth with G.722, G.722.1
- 3.4 kHz bandwidth with G.711, G.728, G.729A

### Polycom® Constant Clarity™ technology

- Automatic gain control
- Automatic noise suppression
- Keyboard noise reduction
- Polycom® NoiseBlock™ technology
- Polycom® Acoustic Fence™
- Live music mode
- Instant adaptation echo cancellation
- Audio error concealment
- Polycom Siren Lost Packet Recovery™ (LPR™) technology
- Polycom™ StereoSurround™ technology

### Other supported standards

- H.224/H.281, H.323 Annex Q, H.225, H.245, H.241, H.239, H.243, H.460
- BFCP (RFC 4582)
- TIP

### Network

- IPv4 and IPv6 support
- 1 x 10/100/1G Ethernet
- Auto-MDIX
- H.323 and/or SIP up to 6 Mbps
- Polycom® Lost Packet Recovery™ (LPR™) technology



- Reconfigurable MTU size
- RS232 with API support
- Microsoft® Office Communications Server integration
- Microsoft® ICE support
- Microsoft Lync and Skype for Business support
- IBM® Sametime™ support

#### Security

- US DoD UC APL Certified (see the *Polycom US Federal Government Accreditation site* for details)
- Media Encryption (H.323, SIP): AES-128, AES-256
- H.235.6 support
- Authenticated access to admin menus, web interface and telnet API
- FIPS 140-2 Validated Cryptography (Validation Certificate #1747)
- PKI/Certificate Management:
  - SSL 3.0, TLS 1.0, 1.1, 1.2
  - Self-signed and CA-signed certificate support
  - CRL and OCSP-based certificate revocation checking

- Network intrusion detection system
- Local account password policy configuration
- Security profiles
- Web UI / SNMP Whitelists
- Local account and login port lockout

#### Options

- Polycom® RealPresence® Touch
- Polycom® EagleEye™ Producer
- Polycom® EagleEye™ Director with EagleEye III cameras
- Polycom® UC Board™
- Polycom® SoundStation® IP 7000 conference phone integration
- Polycom® SoundStructure® integration through a digital interface

#### Software options

- Skype for Business and Lync Integration
- TIP interoperability
- 1080p license, providing up to 1080p60 for people and content
- Multipoint license for up to 6 sites at 720p30, or 4 sites at 1080p30

#### Electrical

- Auto sensing power supply

#### Typical operating voltage/power

- 37VA @ 120V @ 60 Hz
- 37VA @ 230V @ 50/60 Hz
- Typical BTU/h: 65

#### Environmental specification

- Operating temperature: 0 to 40 °C
- Operating humidity: 15 to 80%
- Non-operating temperature: -40 to 70 °C
- Non-operating humidity (non-condensing): 5 to 95%
- Maximum altitude: 10,000 ft

#### Physical characteristics

- RealPresence Group 500 base box
  - 11.3" H x 1.2" W x 4.8" D
  - 2.45 lbs

#### Warranty

- One-year return to factory parts and labor

Need flexible financing?

Polycom **CAPITAL**  
Collaborative Financing  
[www.polycom.com/polycom-capital](http://www.polycom.com/polycom-capital)

#### About Polycom

Polycom helps organizations unleash the power of human collaboration. More than 415,000 companies and institutions worldwide defy distance with video, voice and content solutions from Polycom. Polycom and its global partner ecosystem provide flexible collaboration solutions for any environment that deliver the best user experience and unmatched investment protection.

Polycom, Inc.  
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[www.polycom.com.sg](http://www.polycom.com.sg)

Polycom EMEA  
+44 (0)1753 723282  
[www.polycom.co.uk](http://www.polycom.co.uk)





## DATA SHEET

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# Polycom® RealPresence Touch™

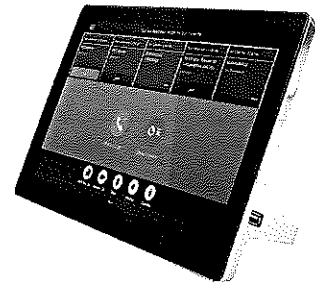
Control your group collaboration experiences with confidence

Polycom® RealPresence Touch™ is a touch interface for Polycom® RealPresence® Group Series and Polycom Immersive Telepresence solutions. The simple and intuitive design lets you focus on your conversations instead of the technology. The design is consistent across the Polycom portfolio, whether you're calling from a conference room or using a Polycom desktop, mobile or web client. RealPresence Touch makes it easy to use video collaboration from any environment, with an interface that is instantly familiar no matter where you're calling from.

Connecting to your calls couldn't be easier. Get your conversations started easily with one touch dialing from the integrated calendar, right on the home screen. Speed dials provide quick access to people, rooms, or virtual meeting rooms. You can also search a directory to quickly connect to the right person or location. Once in a call you have easy access to share content, adjust camera views, change participant layouts and more to get the most out of your meeting.

You can position RealPresence Touch the way that you want, either standing taller or flipped over for a lower profile. No matter how place it, the interface will automatically rotate to the right direction. The sleek design includes a 10" touch display so you can see everything clearly, while staying compact enough to be out of sight during your meetings. Just a single cable carries both power and data to the device, keeping your table clean and clutter-free.

In addition to the flexible placement and integrated calendar, there are other ways RealPresence Touch can adjust for each meeting space. The background image can be customized to match your branding or provide information about the room. Plus the home screen buttons and default screens can be selected by administrators to optimize the experience for their user base, resulting in fewer support calls.



## Benefits

- Take the frustration out of starting and controlling video calls
- Connect quickly and easily through the home screen calendar, easy to access speed dials, and more
- Maximize meeting comfort by positioning it upright or lower profile based on the needs of the room
- Sleek design with integrated Power over Ethernet adds style to any meeting space
- Consistent interface across all Polycom solutions

## Technical specifications

### Package includes

- Polycom RealPresence Touch and RJ45 (LAN) cable
- Set up sheet
- Printed Warranty Statement

### Compatible systems

- RealPresence Group Series 300,310,500,550 and 700
- Polycom® RealPresence Immersive Studio™
- Polycom® RealPresence OTX® Studio

### Usability

- Display: 10.1-inch screen
- Aspect ratio: 16 x 10
- Resolution: WXGA (1280 x 800)
- Designed with built in stand support. No external dock required
- Viewing angle: >= 178 degrees
- Positioning/placing angle: 30 degrees/65 degrees
- Tap and touch control to access call controls and administrative menus
- New Intuitive User interface and home screen customization

### Technology

- Projected Capacitive Touch sensor that supports multi-touch and gesturing functionality
- Direct API command through network
- LCD panel with LED backlighting. IPS (In-Plane Switching)



### Electrical

- Power Over Ethernet (PoE), Compatible with IEEE 802.3af type 1
- Low-power sleep mode

### Warranty

- One-year return to factory parts and labor
- 90-day software warranty
- Service Contract Required

### Physical characteristics

- Physical dimensions: 252 x 175.8 x 11.25 mm (no stand)
- Micro-B USB 2.0 OTG (Supports a USB connection to a PC for content sharing)
- Type A USB 2.0 (Supports software updates)

- Mechanical locking mechanism (Kensington lock)
- Scratch-resistant and oleophobic glass
- Weight: 1 Kg (approximate)

### Operating environment

- Temperature: 0°C to 40°C
- Non-operating: -20°C to 70°C

### Altitude:

- Operating: 0 to 16,405 ft (~5000 meter) ASL
- Non-operating: 0 to 50000 ft ASL

Need flexible financing?

**Polycom CAPITAL**  
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## About Polycom

Polycom helps organizations unleash the power of human collaboration. More than 400,000 companies and institutions worldwide defy distance with video, voice and content solutions from Polycom. Polycom and its global partner ecosystem provide flexible collaboration solutions for any environment that deliver the best user experience and unmatched investment protection.

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## DATA SHEET

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# Polycom® Pano™

## Create, connect and share content and ideas easily.

After spending countless hours creating an amazing presentation using the perfect font and pictures it is now time to present to the group. You find out that the meeting host does not have the same font installed or the right adaptor for you to use with your own device.

Others in the room may have ideas on how to make your ideas better or great ideas of their own. Would it be helpful to be able to see ideas side by side? What if you wanted to highlight the most important information in your presentation and others?

It's time for a different approach. It's time for Polycom® Pano™, the easiest way to share content.

### Create.

You create content on the devices you feel most comfortable with, from a PC, MAC, tablet or other mobile devices. You have your fonts, images and videos all on your device to create the absolute best presentations.

### Connect.

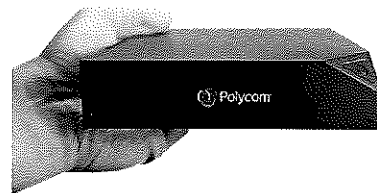
With Polycom Pano, connecting your PC, tablet or phone is simple and familiar. When you first enter a Polycom Pano-enabled room, an on-screen guide walks you through the connection process. Guests also have the ability to share content securely when Pano is connected to the organization's guest network. Connect using the tools you already know such as Apple® Airplay® or Windows® Miracast® for wireless flexibility or a trusty HDMI connection for wireline simplicity.

### Share.

Once you are connected to Polycom Pano, you can easily share your ideas, apps or your active screen. Sharing has never been simpler. With Polycom Pano, sharing is no longer just content delivery, it's a forum for many people and ideas to come together in a single place. Polycom Pano allows multiple users to connect and up to four sources to be displayed simultaneously. By comparing information side-by-side, work teams will experience greater collaboration enabling better and quicker decisions. Polycom Pano also allows presenters to communicate their stories more effectively by providing content interaction and annotation when used with a compatible touch monitor. Users can share their screens, highlight key points with the magic highlighter, or draw on an infinite whiteboard to drive attention and focus.

### Simplicity in your organization.

You need end-user collaboration, but you don't need yet another complex product that is hard to setup, hard to maintain or that creates unnecessary help tickets. Polycom Pano connects to virtually any display through a standard HDMI output or select touch displays for a fully interactive experience.



## Benefits

- Connect fast and easily from any laptop, tablet or phone
- Get a holistic view of your work by sharing up to four screens simultaneously in stunning HD resolution
- Emphasize your key points with exclusive magic highlighter\*
- Capture and save your best thoughts using infinite whiteboard canvas\*
- Play multiple high-res content streams up to 60 fps
- Web and Polycom RealPresence Resource Management enabled for easy and secure device management

\*Requires touch screen monitor. Sold separately.



Additionally, Polycom Pano can be used as a content input to your video conference systems empowering users to share ideas with remote locations around the globe.

## Polycom Pano specifications

### Power

- 54 VDC, 1.2A
- LAN IN; Built-in, auto-sensing PoE+ IEEE 802.3at (Class 4)

### User interface

- Gesture-based, multi-touch capable

### Connectivity

- 1X Ethernet 10/100/1000
- 1X Ethernet 10/100/1000 (reserved for future use)
- 802.11ac Wi-Fi wireless networking; IEEE 802.11a/b/g/n compatible

### Networking and protocols

- Bluetooth 4.0
- Miracast (Wifi-Direct)
- AirPlay (Bonjour)

### Audio output

- 1X 3.5mm

### Content input/resolution

- 1X HDMI/4K, 30fps
- Airplay 1080p, 30fps
- Miracast 1080p, 30fps

### Content output/resolution

- 1X HDMI/4K, 60fps. RGB444
- 1X USB to HDMI (optional, dongle not included)

### Security

- Secure Boot
- Signed Software
- 802.1X Network Authentication
- TLS Version Control
- Certificate Management
- Encrypted Content/Media (AES)
- Miracast (WPA2-AES)
- Airplay (AES)

### Approvals

- FCC Part 15 (CFR 47) Class B
- ICES-003 Class B
- EN55022 Class B
- CISPR22 Class B
- VCCI Class B
- EN55024
- EN61000-3-2; EN61000-3-3
- Australia RCM
- ROHS compliant

### Environmental

- Operating Temperature: 32–104°F (0–40°C)
- Relative humidity: 5–95%, noncondensing
- Storage Temperature: -40–160°F (-40–70°C)

### Electrical safety

- UL 60950-1
- CE Mark
- CAN/CSA-C22.2 No. 60950-1-03
- EN 60950-1
- IEC 60950-1
- AS/NZS 60950-1

### Radio

- FCC Part 15.247
- FCC Part 15.407

### EU

- ETSI EN 300 328
- ETSI EN 301 893
- ETSI EN 301 489-1
- ETSI EN 301 389-17

### Japan

- Article 2, Paragraph 1, Item (19)
- Article 2, Paragraph 1, Item (19) -2
- Article 2, Paragraph 1, Item (19) -3
- Article 2, Paragraph 1, Item (19) -3-2

**Australia**

- AS/NZ4268

**WiFi**

- 2.4GHz - 5GHz
- 2400MHz to 2483.5MHz
- 5150MHz to 5250MHz
- 5250MHz to 5350MHz
- 5470MHz to 5725MHz
- 5725MHz to 5825MHz

**Warranty**

- 1 year

**Country of origin**

- Thailand

**Weight**

- 1.1 lbs. (500g)

**Device dimensions**

- 6.0" (L) x 1.5" (H) x 6.4" (D)

**Packaging dimensions**

- 11.4" (L) x 2.5" (H) x 10.4" (D)

**Included accessories**

- 1x HDMI cable, 1.8m
- 1x CAT 5E, 3.6m, shielded
- 1x USB Type-A Type-B, 2.0m
- 1x Power module (regional choices available when ordering)
- Wall mount kit

**Part number**

- PN: 7200-84685-xxx (regional choices available when ordering)

**Pano App**

- Windows 7, 8 & 10
- MAC OS X
- 1080p, 30fps

**Learn more**

To learn more about Polycom Pano, visit [www.polycom.com/pano](http://www.polycom.com/pano).

**About Polycom**

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## DATA SHEET

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# Polycom® Ceiling Microphone Array

Extraordinary room coverage with superior audio pickup

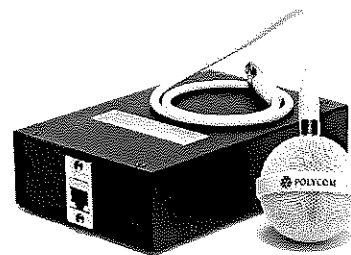
Polycom's digital microphone array is the only audio pickup device for video conferencing systems on the market that offers consistent, reliable, 360-degree voice pickup and Polycom StereoSurround™ audio. When paired with Polycom video conferencing systems, the audio pickup and delivery is unmatched.

That's why Polycom offers the easy-to-mount Ceiling Microphone Array (CMA). It eliminates conference table clutter and stays out of the way of pencil tappers and paper rustlers, while providing the same clear, crisp sound as our tabletop microphone arrays. Unobtrusively, the microphone elements are located in the room while the electronics are mounted above the ceiling tile, so you don't even know it's there. This makes the Ceiling Microphone Array the perfect solution for any application, large or small from the classroom, to the boardroom to the huddle room, anywhere 'out of sight, out of mind' is a good philosophy.

### Stereo pickup with a single microphone array

The Ceiling Microphone Array is designed to eliminate acoustic noise coming from the ceiling, while boosting sensitivity gain even when the speaker is directly beneath the microphone. To achieve up to 1,600 square feet of coverage, simply connect up to four Ceiling Microphone Arrays to a single Polycom® HDX® 9000 video system or the Polycom® SoundStructure® C12 or C16. Adjustable drop height from ceiling will accommodate any room size or environment. This huge coverage area is up to three times larger than competitive unidirectional ceiling microphones. It is delivered as a complete kit with all mounting hardware required for easy installation.

Polycom Ceiling Microphone Array seamlessly integrates with the Polycom HDX or Polycom® RealPresence® Group Series video systems, and Polycom SoundStructure® installed audio solution so you'll always enjoy the best audio quality in echo cancellation, noise reduction, and automatic gain control.



### Benefits

- **Superior audio pickup** — Adjustable drop height provides extraordinary voice pickup from anywhere in the room
- **Award winning technology** — Makes full use of Polycom digital microphone and 22 kHz StereoSurround audio
- **Superb room coverage** — 360-degree coverage from three-cardioid elements can handle a room up to 1,600 square feet with four arrays, three times greater than competitive unidirectional products
- **Capture the speaker** — The only ceiling microphone on the market with a directional microphone beam, automatically pointing to the person speaking
- **Neat, easy installation** — Complete kit includes everything you need to hide electronics in the ceiling, out of the way of the floor and tabletop

## Product Specifications

### Primary solution includes

- Microphone array available in white or black
- Electronics enclosure with ceiling mounting hardware (UL 2043 compliant and suitable for use in air-handling spaces)
- (1) 24-inch (60 cm) microphone interface cable\*
- (1) 30-foot (914 cm) plenum C-Link 2 cable(1) 50-foot (1524 cm) plenum C-Link 2 cable (RJ45)
- Wall plate
- Walta to RJ45 adapter cable used for installations with RealPresence Group and HDX 6000/7000/8000 series systems.

### Extension kit includes

- Microphone array available in white or black
- Electronics enclosure with ceiling mounting hardware (UL 2043 compliant and suitable for use in air-handling spaces)
- (1) 24-inch (60 cm) microphone interface cable\*
- (1) 25-foot (762 cm) plenum C-Link II cable (RJ45)

### Digital microphone specifications

- 360-degree directional pickup
- Three cardioid elements per microphone – Elements spaced 120 degrees apart
- Each Ceiling Microphone Array covers a 24' diameter
- Total coverage area for a single Ceiling Microphone Array is 400 square feet

### Audio features\*\*

- Dynamic microphone steering
- Full-duplex digital audio
- Instant Adaptation Echo Cancellation

| Video System Compatibility  | Maximum CMAs Supported |
|---|------------------------|
| Polycom HDX 9000, SoundStructure C16, SoundStructure C12                      | Up to 4                |
| Polycom HDX 8000, RealPresence Group 700                                      | Up to 3                |
| Polycom HDX 7000, HDX 4000, RealPresence Group 300 and 500, SoundStructure C8 | Up to 2                |
| Polycom HDX 6000  | Up to 1                |

- Automatic Noise Suppression (ANS)
- Automatic Gain Control (ACG)

### Installation guidelines

- Avoid interference with fluorescent lighting
- Avoid close proximity with AC vents
- Secure mounting ears for electronic boxes
- Avoid all other obvious sources of noise
- Microphone array should be 7-8' above the floor
- Maximum cable distance to the primary (first) electronics box is 100', maximum cable distance between extensions is 25'

### Product characteristics

- Dimensions (WDH): 4"6"1 5/8", 101.6 mm/152.4 mm/41.3 mm
- Weight 14 oz; 397 kg

### Warranty

- One-year return to factory parts and labor

### Usage environment ideas

- K-12, primary and secondary school locations
- Higher education including universities, colleges, community colleges, technical colleges
- Corporate training rooms

- Auditoriums
- Large lecture halls
- Medical training facilities
- Corporate boardrooms
- Military training/distributed learning rooms, command centers, briefing centers
- Continuing education center
- Museums or hospitals
- Content provider locations

### Applications ideas

- Basic or advanced meetings
- General distance and distributed learning
- Specialized courses of instruction
- Continuing education
- Professional development
- Blended learning environments
- Music schools
- Theatre content and classes

\* Also available as an option 6' white or black

\*\* Features supported with Polycom room video codecs and SoundStructure installed audio solutions

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## About Polycom

Polycom is the global leader in standards-based unified communications (UC) solutions for telepresence, video, and voice powered by the Polycom® RealPresence® Platform. The RealPresence Platform interoperates with the broadest range of business, mobile, and social applications and devices. More than 400,000 organizations trust Polycom solutions to collaborate and meet face-to-face from any location for more productive and effective engagement with colleagues, partners, customers, specialists, and prospects. Polycom, together with its broad partner ecosystem, provides customers with the best TCO, scalability, and security for video collaboration, whether on-premises, hosted, or cloud-delivered. Visit [www.polycom.com](http://www.polycom.com) or connect with Polycom on Twitter, Facebook, and LinkedIn.

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## DATA SHEET

# Polycom® EagleEye™ Director II

Get ready for your close-up with the only smart camera that makes every video conference a true face-to-face experience

Meeting across sites is as natural as being in the same room now that presenters are seen up close without fumbling with technology. Polycom® EagleEye™ Director II camera automatically zooms in on an active speaker without the use of a remote control or camera presets. EagleEye Director II takes video conferencing to the next level so meeting participants no longer have to worry whether they're in camera view or stop the conversation to grab the remote control. For larger meetings, two EagleEye Director II cameras can be connected via Cascading Mode to ensure every part of your meeting is in view. Now, 100% of your time in meetings is focusing on the bigger issue—solving critical business problems.

### Automatic people-tracking

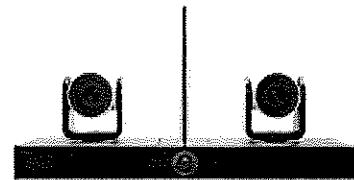
By zooming in and framing active speakers, everyone will be able to clearly see vital facial expressions and any subtle body language which allows for deeper engagement and more effective meetings. Utilizing the latest in speaker tracking and facial recognition technologies, EagleEye Director II continually scans the room and commands the cameras to appropriately frame everyone in the room. When someone in the room starts to speak, the system seamlessly transitions to an up-close view of that speaker, similar to a TV-production experience.

### Inclusive experience

Maintaining engagement with everyone in the room, not just the active speaker, is critical for every meeting. EagleEye Director II does this seamlessly, keeping everyone connected by highlighting the active speaker up close at the same time as providing a smaller view of the whole group in one video stream. To further improve engagement, two EagleEye Director IIs can see multiple angles of any room with Cascading Mode, leading to more natural and immersive meetings.

### Smart data analytics

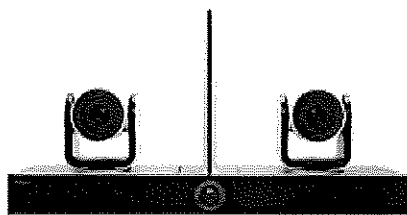
The power of EagleEye Director II extends beyond the conference room by providing powerful data analytics to measure the return on investment of video collaboration, when used in conjunction with Polycom® RealPresence® Group Series or G7500 and Polycom® RealPresence Clariti™\*. Data reports include the number of participants at the beginning, middle, and end of each meeting, which can be used to ensure each video room investment is utilized to its fullest potential. Additionally, IT professionals can monitor room usage to ensure that automated conferences are being attended and not running in empty rooms.



### Benefits

- More engaging and less stressful meeting experience with automatic camera technology that zooms in on an active speaker without anyone using a remote control
- See nonverbal cues up close and maintain context of the room with single stream video of both the active speaker and everyone in the room
- Measure return on investment with powerful data analytics for IT administrators\*
- Extend into larger rooms up to 10 m such as boardrooms, classrooms and assembly meeting spaces.
- Easy to upgrade existing video systems for immersive-like meeting experience
- Remote configuration is easy with the EagleEye Director II App and web user interface





Front view



Rear view



Side view

#### Product specifications

##### Package includes:

- EagleEye Director II base, power supply and necessary cables
- EagleEye Director II base, power supply, necessary cables and one EagleEye IV camera
- EagleEye Director II base, power supply, necessary cables and two EagleEye IV cameras

##### Compatible cameras

- 2x EagleEye™ IV 12X camera

##### Compatible Polycom video systems

- Polycom RealPresence Group 300, 310, 500, 550 and 700\*\*
- Poly G7500

##### Compatible Skype for Business video systems

- Certified for Skype for Business
- Microsoft Surface Hub (55" and 84")
- Skype for Business 2015 and Lync 2013 client running on Microsoft Windows 7, 8, 8.1 or 10

#### Recommended room size

- Participants should be within 33 feet (10 m) of each EagleEye Director II
- Performance may vary in different room configurations

#### Modes

- Frame speaker
- Frame group

#### Connections

- 1 x mini-HDCI out to video system
- 2 x USB 2.0
- 1 x 3.5 mm stereo line-in
- 1 x HDMI in
- 1 x HDMI out

#### Environmental Specifications

- Operating temperature: 0° — 40° C ambient
- Operating humidity: 10—90%
- Storage temperature: -40° — 70° C
- Non-operating humidity : 5% — 95%, non-condensing

- Altitude: 5,000 meters operational, 10,668 meters non-operational (transportable)
- Will operate in florescent lighting environments worldwide

#### Physical characteristics

- Base box with vertical array 11.14" x 21.57" x 5.5" (H x W x D)
- 283 mm x 548 mm x 140.5 mm (H x W x D)
- Weight: 4.7kg with two EagleEye IV cameras

#### Electrical

- Auto sensing power supply
- Typical operating voltage/power - 100 — 240VAC, 50/60Hz Output 12V@5A

\*Data analytics require Polycom RealPresence Group Series or G7500 and RealPresence Resource Manager 10.1 or higher

\*\*RealPresence Group Series 6.1 or higher

#### For more information

Please visit your local Executive Experience Center to see a demo. *Schedule your free demo.*



## DATA SHEET

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# Polycom® EagleEye™ Series Cameras

## High definition video imaging

Polycom® EagleEye™ cameras provide the ultimate experience to optimize video collaboration. EagleEye™ IV and EagleEye™ Acoustic cameras are designed to meet your varying environments and applications in conjunction with Polycom® RealPresence® Group Series video systems. From huddle rooms, to desktops, classrooms to customized board rooms, Polycom EagleEye cameras deliver best in class video quality to all participants.

All Polycom EagleEye cameras offer the following features:

- High definition video transmission
- Clear, crisp natural colors from precisely tuned optics
- Quick, fluid movements with sharp focus
- Camera power supplied by Polycom RealPresence Group Series video system eliminating the need for a power supply

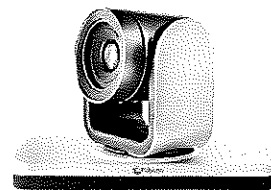
## Multiple camera options to meet your needs

### EagleEye IV

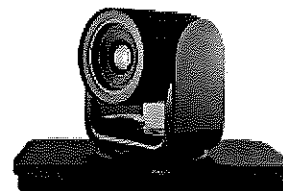
The Polycom EagleEye IV 4x and 12x cameras have a completely digital camera sensor to capture incredible detail for more natural communication. With a wide field of view, these cameras are flexible enough to use in any room environment, from a small huddle room to a large boardroom. With the optional Polycom EagleEye Digital Extender, the cameras can be mounted up to 330 feet away from the video system, providing you the flexibility to move the camera where you need it. Combine the EagleEye IV camera with EagleEye™ Producer or EagleEye™ Director II for an automated camera experience.

### EagleEye Acoustic

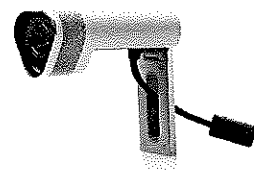
The Polycom EagleEye Acoustic camera is an optimal solution for a smaller environment. With built-in microphones and small footprint, this camera will easily blend into an executive office or huddle room.




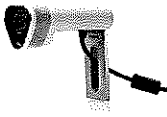
Polycom EagleEye IV 12x  
Camera (silver)



Polycom EagleEye IV 4x  
Camera (black)



Polycom EagleEye Acoustic Camera

|                            | EagleEye IV<br> | EagleEye Acoustic<br> |
|----------------------------|--|--|
| Camera type                | 1/2.33" CMOS   | 1/2.7" CMOS  |
| H/V resolution             | 1920 x 1080  | 1920 x 1080  |
| Output                     | SMPTE 296M 1280 x 720p60, SMPTE 274M 1920 x 1080p, 60/50   | SMPTE 274M 1920 x 1080p, 30/25   |
| Lens focal length          | f=3.76–37.6 mm   | f=4.37 mm  |
| Lens F#                    | 1.2  | 2.0  |
| Zoom                       | 4x optical (black),<br>10x/12x (silver)<br>optical/digital                                       | 2x digital   |
| Focus                      | Auto   | Auto   |
| Horizontal field of view   | 65°, 85° with wide<br>angle adaptor  | 67°  |
| Vertical field of view     | 39°  | 39°  |
| Min. illumination          | 50 lux   | 50 lux (F2.0)/50 IRE   |
| Exposure                   | Auto-Iris, AGC   | AGC  |
| SNR                        | 50 dB  | 50 dB  |
| Pan range                  | +/-100°  | +/-24°   |
| Tilt range                 | +20/-30°   | +/-14°   |
| I/O                        | Mini-HDCI—<br>Hirose DH60-37P  | HDCI, 60 pin (incl: power, Comm, IR, HDMI, audio)  |
| IR detectors               | •  | •  |
| Power consumption          | 12 v @ <1.2A power   | 200 mA @ 12V DC  |
| Dimensions<br>(W x H x D)  | 218 x 138 x 118 mm   | 45.4 x 43 x 111 mm   |
| Built-in-microphones       | •  | •  |
| Video system compatibility | RealPresence Group Series  | RealPresence Group Series  |
| Room size                  | Small, medium, large   | Small  |

\* All camera data is subject to change without notice and performance may vary based upon environmental conditions.

## Automated camera options

**EagleEye Producer Kit**—Utilizing the latest in facial recognition technology, the system continually scans the room and seamlessly commands the MPTZ camera to appropriately frame the users. This intelligent method of dynamic framing greatly improves the user experience and solves the common problem of wide angle shots that fail to immerse participants in a meeting. EagleEye Producer enables you to see true expressions and vital non-verbal communications for more naturally effective meetings.

Compatible with EagleEye IV 4x and 12 cameras. The EagleEye Producer mounting kit uses the Universal Camera mount to mount the EagleEye Producer and the EagleEye camera on the wall, display or tripod.

**EagleEye Director II Kit**—Changes the face of group video communications by enabling close-up views of every speaker in a video conference, regardless of their location or the number of people in the room. By highlighting, zooming in, and framing active speakers, everyone can clearly see critical facial expressions and read the subtle body language which enables deeper engagement and more effective meetings.

Compatible with EagleEye IV 12x cameras.



## Available accessories

**Wide angle lens**—extends the field of view for EagleEye IV to 85°

**Cables**—The EagleEye IV camera uses a mini-HDCI to HDCI cable which comes in a variety of different sizes to meet your needs:

- 300mm (2457-64356-030)
- 457mm (2457-64356-018)
- 1m (2457-64356-100)
- 3m (2457-64356-001)
- 10m (2457-64356-101)

**EagleEye Digital Extender**—allows EagleEye IV or EagleEye Acoustic, sans audio, to be mounted 330 feet away with a Cat6a cable to extend the video, control and power from the source to the destination.

**Digital Breakout Adapter**—breaks out the EagleEye IV or EagleEye Acoustic to HDMI type connector and DB9 connector. One version at the camera also provides power to the camera. At the codec the Digital Breakout Adapter connects to an available HDCI input.

**Universal Mounting Shelf**—supports the EagleEye IV cameras. Provides necessary parts to mount the EagleEye IV on the wall, a tripod or a display.

**Codec Shelf Mounting Kit**—allows the RealPresence Group Series 300, 310 or 500 and EagleEye™ IV camera to be mounted together in conjunction with the Universal Mounting Shelf.

**Privacy Cover**—For added security, the privacy cover for either the EagleEye IV or the EagleEye III secures to the camera allowing you to open and close the cover as needed.

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