

Home Office and Classroom

“Home office” has become a common phrase in households worldwide as a result of the COVID-19 pandemic. The term refers to spaces serving a variety of purposes including parents hosting business meetings or their children learning remotely. In either situation, a robust professional home conferencing AV configuration provides better meeting and learning experiences over that of the typical laptop or computer on its own.

Needs Assessment

Purpose	Create an easy-to-use home AV system compatible with popular video conferencing software
Display	Flat panel display of sufficient size for critical viewing of meeting/lesson content as well as far end participants
Source	User laptop
Camera	Provide video capture performance that is superior to the native abilities of the laptop
Audio	Provide superior speaker and microphone performance over the native abilities of the laptop
Connections	Interfacing with the AV system should be simple, with minimal cable connections



AV Routing and Extension

Most homes are not designed with optimal business meetings or classroom learning as a priority. But, many of us are having to re-think that strategy, and adapt existing spaces to support these applications. However, some common technologies combined with Atlona components can help these spaces perform at levels that help both parents and their children.

Adding the Atlona **AT-OME-EX-KIT-LT** to a room with a large flat panel display allows the user to take advantage of superior video performance as compared to the laptop. The larger screen allows more detailed viewing of business presentations or lesson materials as well as greater interaction with remote participants. The OME-EX-KIT-LT is a transmitter and receiver pair that extends HDMI and USB signals distances up to 230 feet (70 meters), allowing maximum flexibility for arranging the laptop and display in the room. It also interfaces with the Atlona **AT-HDVS-CAM** PTZ camera with USB, as well as a USB microphone to enhance video capture and sound capabilities.

To facilitate quick and easy changes between home office and home student users, simple HDMI and USB connections are all that is required for connecting a laptop. This prevents the hassle of plugging and unplugging multiple peripherals as well as concerns over availability of enough USB ports on modern laptops.

USB

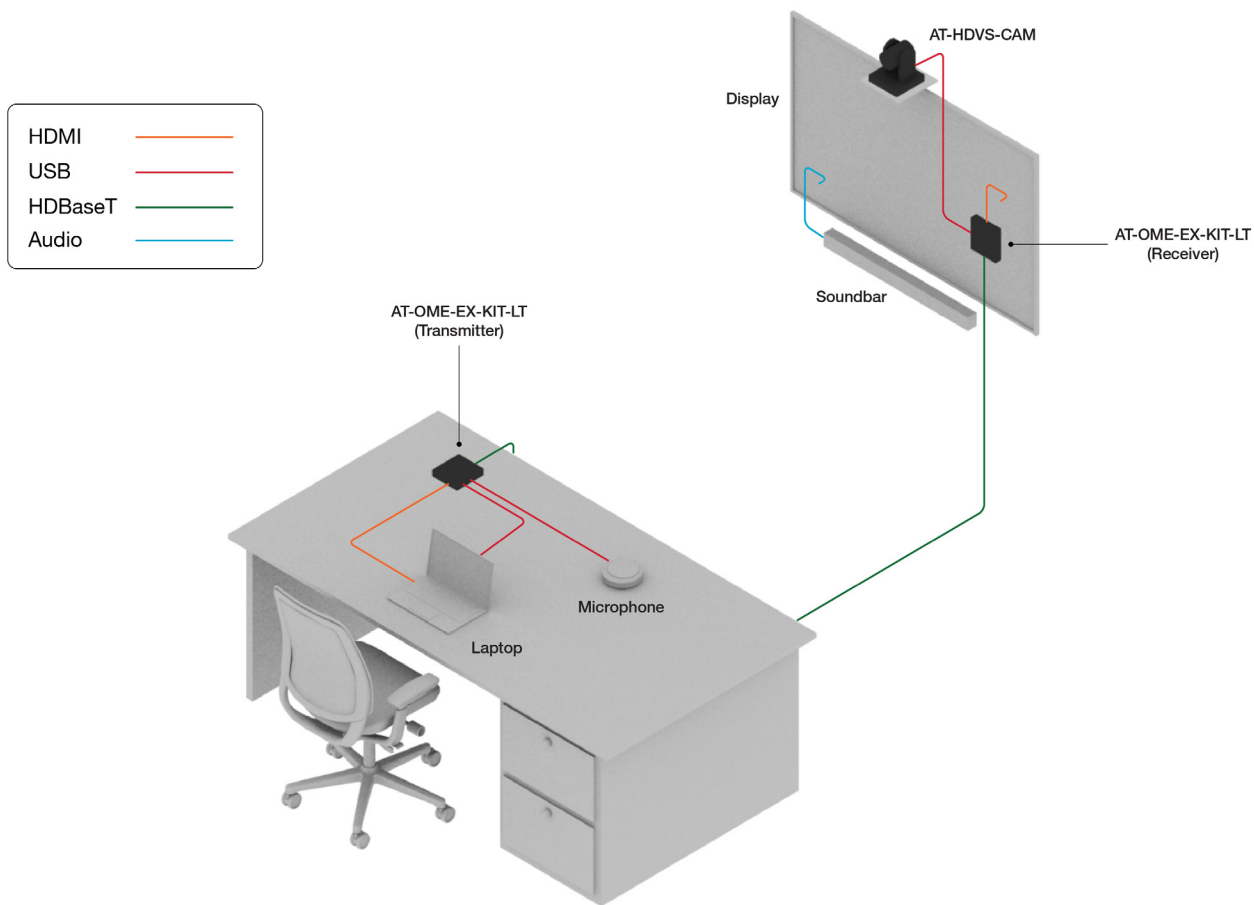
A key element of this solution is its integration of USB to provide a superior video conferencing experience over native laptop resources for popular applications including Zoom, Skype® for Business, Microsoft® Teams®, Cisco® Webex®, BlueJeans, and GoToMeeting®. When users connect their laptop USB to the system, they gain access to the high-resolution camera and conferencing grade microphone with a single connection, no matter where the components are located in the room.

PTZ Camera

The AT-HDVS-CAM delivers professional-quality video that is far superior to a conventional webcam. A larger sensor and 10x optical zoom provide greater detail for video conferences and school sessions. The handheld remote allows precise control of motorized pan, tilt, and zoom for proper framing.

Audio

Hearing and being heard clearly are critical in both business communications and learning. The USB microphone provides better coverage and quality than the typical laptop, as well as more flexible placement for optimal pickup. The soundbar offers superior coverage and clarity over laptop speakers.



Home Office and Classroom Bill of Materials

QTY	Description	SKU
1	Omega HDBaseT TX/RX for HDMI with USB	AT-OME-EX-KIT-LT
1	PTZ camera with USB	AT-HDVS-CAM
	Display, USB microphone, soundbar, laptop, miscellaneous cabling	Furnished by others



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