



---

## ZyPerUHD60 Huddle Room Certification

---

ZeeVee, Inc.  
295 Foster Street, Suite 200  
Littleton, MA 01460 USA  
October 21, 2024

## Table of Contents

Huddle Room Overview .....	3
Key Features of Huddle Rooms/Spaces.....	3
Basic Huddle Rooms and Spaces .....	3
Content Sharing.....	3
Huddle Room Example with the ZyPerUHD60.....	4
Kramer Advantages .....	4
Technology Basics .....	5
USB Cable Lengths.....	5
USB Transport.....	5
Common Huddle Room Equipment tested/validated with ZyPerUHD60 .....	6
Displays/Projectors.....	6
USB Cameras .....	6
USB Speakers/Microphones .....	7
USB Touch panels/overlays .....	7
USB Mice/Keyboards.....	8
USB Storage Devices.....	8
Other USB Devices.....	9
Laptops/Video Sources.....	9
Disclaimers .....	10

## Huddle Room Overview

A huddle room is a **small and private meeting area**. Much like a traditional conference room, huddle rooms are generally outfitted with audio and video conferencing equipment, a display system and a traditional or digital whiteboard.

Huddle rooms are **collaborative spaces meant for informal, peer-to-peer communication**. Perfect for brainstorming or touching base with co-workers or classmates, huddle rooms are becoming a popular addition to modern working spaces.

They're small, convenient meeting spaces that enable a few employees to quickly meet. They eliminate cumbersome reservation processes. And they're all about ad hoc conversation. Huddle **spaces** lose the walls and serve the same purpose within open areas. Either way, huddle areas facilitate informal closeness and easy collaboration.

### Key Features of Huddle Rooms/Spaces

- **Small and intimate.** Huddle spaces typically accommodate groups of 2 to 6.
- **Informal.** Need a quick conversation with coworkers? Huddle rooms let you drop in as needed. Freedom from scheduling is a key factor.
- **Versatile.** Huddle spaces are available as needed to support any business objective. They're outfitted with a range of furniture, equipment, and technology to support these needs.
- **All about spontaneous collaboration.** Huddle rooms enable a spontaneous, collaborative flow of information.

They promote productive work by providing a quiet, enclosed space for:

- Project team meetings
- Client meetings
- Brainstorming sessions
- Staff meetings or manager/employee one-on-ones
- One-on-one or small group presentations
- Private space for traveling/remote employees

### Basic Huddle Rooms and Spaces

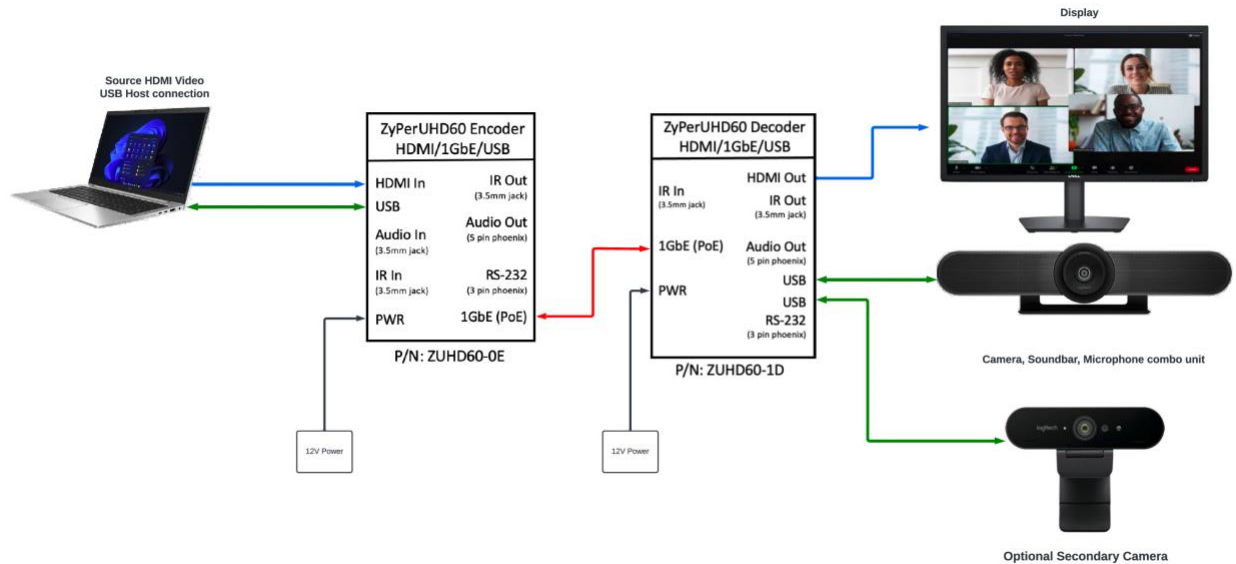
At its most basic, a walled huddle room will include a central surface (table or other furniture) with 2-6 chairs. It will contain one or more whiteboards or a display device. There will be one or more cameras used for video conferencing as well as appropriate speakers and microphones.

### Content Sharing

The ability to easily share content on a display expands a workgroup's collaborative capabilities. Ideally, everyone who walks into a huddle room should be able to quickly connect, share and manipulate content. It should be easy to join remote meetings using such conferencing tools as Teams, Zoom or Skype.

## Huddle Room Example with the ZyPerUHD60

The ZyPerUHD60 system eliminates the need for extensively long HDMI or USB cables by providing a simple solution with one device located near the display/camera system and another device located more convenient to the user. Note that typically the ZyPerUHD60 units are mounted out of sight and connected into via a convenient adapter located on a tabletop or wall plate.



### Kramer Advantages

The example dedicated Huddle Room above can easily be converted to an interconnected Huddle/Overflow room by connecting the ZyPerUHD60 endpoints to a network switch creating a many to many AV over IP deployment where any source can be routed to any display and any camera can be routed to any source.

## Technology Basics

This section explores and explains some basic technology related to Huddle Rooms and why the ZyPerUHD60 is an ideal solution.

### USB Cable Lengths

Camera, speaker and microphone signals are typically transported using the USB 2.0 standard over USB cable. The maximum recommended cable length for USB 2.0 cables is only 5 meters (16 feet). This makes a direct connection between a camera for example and the user a problem in all but the smallest of Huddle Rooms.

The ZyPerUHD60 solves this problem by keeping the “Decoder” device located near the camera and display while the “Encoder” device can be located anywhere in the room. (See diagram on previous page)

### USB Transport

To support Video/Camera transmission over USB, the system must support Isochronous transport mode. Not all USB delivery systems support this transport mode. The ZyPerUHD60 fully supports this mode of USB transportation, and the “Encoder” device can be linked back to multiple camera feeds simultaneously via the use a virtual USB Hub inside the “Encoder” device.

## Common Huddle Room Equipment tested/validated with ZyPerUHD60 (Note: this is not intended as a complete list of all supported equipment)

### Displays/Projectors

Benq BL2711  
Dell U2414Hb  
Dell P2415Qb  
Dell U2718Q  
Epson EB-PU2220B  
Hannspree HF199H  
Insignia  
LG 43UK6500AUA  
LG 43UM7300PUA  
LG 24UD58B  
LG 43UF7600  
LG 55SK8000PUA  
Monoprice GS27Q  
Optoma UHL55  
Optoma UHD51ALV  
Optoma ZU606TST  
Phillips  
Samsung LN46C550  
Samsung U28E590D  
Samsung UN40J5200AFXZA  
Samsung UN40JU6500  
Samsung LU28D590DS  
Samsung UN49MU7000  
Sharp LC-46D65U  
Sharp LC-43LBU591U  
Sony KDL-32BX330  
Sony XBR43X800E  
Vizio E24-C1  
Vizio M50-E1  
ViewSonic VA2265Smh

### USB Cameras

Ausdom AW615  
AVer PTZ330  
Avonic CM70/71  
BlueLover T3200  
Generic USB webcam  
HP Pro Webcam C920  
Kramer KAC-CAM-CC-10

Kramer KAC-BAR-81  
Kramer K-180Mini  
Logitech C270 HD Webcam with Noise reducing MIC  
Logitech C615 HD Webcam  
Logitech C1000e  
Logitech C920  
Logitech C925e  
Logitech C930e  
Logitech Rally Ultra HD PTZ  
Lumens VC-R30  
Microsoft LifeCam Studio  
NEXIGO N60  
Panasonic AW-UE40  
Poly Studio X70  
Polycom EagleEye mini  
ProITAV UC-G48  
ProITAV UC-GL18  
ProITAV UC-HAI18  
ProITAV UC-MA180  
ProITAV UC-UAI48  
Sony SRG-X40UH/BC  
VHD J1702CS  
VHD JX1700US  
VHD UC-V-L 17

### USB Speakers/Microphones

Audio-Technica AT9933 Microphone  
Jabra UC Voice 550A  
JBL Pebbles Mini Wireless  
Logitech C270 HD Webcam with Noise reducing Mic  
Logitech Headset H390 with Noise Cancelling Mic  
MPOW Headset/Microphone  
ProITAV USP-G008  
ProITAV USP-G006

### USB Touch panels/overlays

Chengying CYS-24-p10 (Counts as 2 USB input devices)  
DeYoWo IR touch frame  
HiteVision ICB-N550 White board  
i3TOUCH X2 touch screen (Counts as 3 USB input devices)  
MAXHUB EC55CAB White board

### USB Mice/Keyboards

A4Tech KR-85 keyboard  
Amazon Basics 2.4Ghz Wireless Optical Mouse  
Apple M7803 keyboard  
Apple USBM2352 keyboard  
Cherry JM-0300 mouse  
Dareu EK810 keyboard  
Dareu EK819 keyboard  
DeLux KA280 wireless combo  
DeLux M269 wireless combo  
Fuhlen X100 mouse  
HP K500 mouse  
HP KUS1206 keyboard  
Jelly Comb KUT091 wireless combo  
Logitech G15Y-W93 keyboard  
Logitech G903 mouse  
Logitech M215 wireless mouse  
Logitech M185 wireless mouse  
Logitech M170 wireless mouse  
Logitech Wireless Combo MK270  
Logitech MK Keys keyboard  
Newmen GL600 keyboard  
Nulaxy 2.4G Wireless Optical Mouse  
Redragon M801P-RGB wireless mouse  
Rapoo V150S mouse  
Razer RZ03 keyboard  
Rii 2AJU3RT716 mini keyboard  
SteelSeries Kinzu mouse  
Sunsonny SM-8509 III mouse

### USB Storage Devices

ADATA UV350 64G Flash Disk  
Aigo U330 64G Flash Disk  
HP X306W 64G Flash Disk  
Kingston 16G Flash Disk  
LaCie P'9223 Porsche Design Slim Drive 1T HDD  
Lexar M45 64G Flash Disk  
Netac 32G Flash Disk  
Samsung 32G Flash Disk  
Samsung MU-PC1T0K 1TB SSD  
SanDisk Cruzer Glide 64GB  
SanDisk Ultra 32GB



4GB Generic Memory stick  
Teclast 64G Flash Disk  
Toshiba 16G Flash Disk  
Western Digital 1T HDD

### Other USB Devices

Honeywell Barcode scanner  
Microsoft Xbox One X Console to Xbox One X Controller  
MonoPrice Aquagate 2.0 (7-port USB Hub)  
Mokin USB-C Adapter (USB Hub)  
Q-Sys Core 8 Flex

### Laptops/Video Sources

Apple MacBook Pro 15 2015  
Apple MacBook via USB-C and HDMI adapter  
Apple MacBook Pro via USB-C and HDMI adapter  
Apple TV  
Dell Inspiron 15  
Dell XPS 15 9530  
Dell XPS 15 9570  
Dell G5 15 5587  
Dell Inspiron 13 7347  
Dolemee media player  
Gigabyte GB-BXCE-3205  
HP 15-ax230TX  
HP 15-au195TX  
Intel NUC BOXNUC7CJYH1  
LG 15Z950-GT70K  
LG 15UD470-GR3NK  
Lenovo ThinkPad  
Marshall Electronics Test Generator  
Microsoft Xbox One X  
Murideo Test Generator  
Nexsmart media player  
Sony Blu-Ray player  
Sony PlayStation 5  
ZettaGuard HDMI 1x2 Splitter

## Disclaimers

ZeeVee has striven to ensure that this document is accurate and represents the described products fully. Although, ZeeVee assumes no responsibility for errors found, should any be found, please contact [support@zeevee.com](mailto:support@zeevee.com) and corrections will be issued as appropriate.

Customers should always consult with qualified Network Engineers regarding all network designs. Design guidance provided by ZeeVee should be considered for reference only. It is up to the customer to validate and implement any network designs. ZeeVee cannot and will not be held responsible for network designs, equipment, cabling or other installation related network items.

ZeeVee hardware designs are property of ZeeVee.

Components, sub-assemblies, and methods utilized in the designs are free of any encumbrances or appropriate licenses and rights have been obtained by ZeeVee for the use in the described products in the intended manner.

ZeeVee software is the sole property of ZeeVee except within the restrictions and guidelines of any open-source or public-license component utilized. ZeeVee represents that normal usage of the product in a typical customer installation is fully within the granted rights and privileges of any licensed component. Visit [www.zeevee.com](http://www.zeevee.com) for further details.

The specifications of the described products may change at any time without notice.

ZeeVee forbids unauthorized disassembly, reverse-engineering, duplication, or any other attempt to recreate all or portions of the hardware or software outside of any use explicitly authorized in writing by ZeeVee.

## Trademarks

All trademarks are the property of their respective owners.

## Copyright

This document is copyrighted with all rights reserved. This document or any portion contained may not be reproduced or copied by any means - graphically, mechanically, or electronically - without express written authorization of ZeeVee.

**© 2023 ZeeVee, Inc. All rights reserved**