

## EQUIPMENT TO START DOING TELEHEALTH QUICKLY

Many options for equipment exist to use for telehealth. This is a curated list of equipment that has been successfully used in telehealth sessions by the Department of Health. The features that make each piece of equipment useful are what you should consider when purchasing equipment that will work well for you.

**NOTE:** This equipment list assumes that you will have the internet connection, HIPAA compliant videoconference application (e.g. Zoom, Vido, etc.), and any cables needed to connect devices that aren't Bluetooth capable.

We have updated prices as of March 19, 2020 and have noticed that there seems to be price inflation from our non-COVID-19 times. Prices are usually lower.

### For use in an office with only one provider using system at one time:

You will need a desktop computer or laptop. A tablet like an iPad can be used with a stand. You can use the camera on your computer, laptop or tablet but usually these are not very adjustable. If you are using your computer, laptop or tablet, make sure to adjust the height of it to get the best camera level to reproduce eye contact during your telehealth sessions.

### Webcam

A webcam can be used on your existing desktop or laptop computer. The webcam allows you to adjust the camera which can help make the eye to eye contact with the patient better. A webcam that has the ability to be attached to a portable tripod is more versatile.

### Logitech c930e



#### Description:

Quality webcam with HD 1080p at 30 fps. 90-degree field of view and 4x optical zoom. Tripod mountable with ¼ inch threaded hole.

#### Benefit:

Wide angle so can have 2-3 people on camera. Can combine with a supporting tripod.

**Approximate Price:** Amazon: \$200 (\$70 normally)

## Noise Canceling Headset

Good to use when there is only one specialist in the telehealth session. Helps with clearer sound transmission and reception.

### Mpow 071 USB Headset



#### Description:

Built-in unidirectional microphone. Reduces unwanted background noise for clear conversation.

#### Benefit:

Has USB and 3.5 mm jack options.

Approximate Price: Amazon: \$29.99

## Additional laptop/computer

If you want to have the electronic medical record, web-based tools, etc available during your telehealth session, you may want to set up a second laptop/computer. If you are using a telehealth application that allows multiple windows then you can connect to the session with your second laptop/computer and show visual aids while still maintaining video of you.

## FOR USE IN A DEDICATED TELEGNETICS ROOM OR CONFERENCE ROOM:

Instead of the webcam, you can use a monitor/TV, mini computer/laptop, wireless keyboard, and mouse to outfit your telegenetics room. This is especially a good set-up if you have several providers doing a consultation together.

## For use when multiple providers are doing the telehealth session:

### Video and Audio for 2-4 people in room:

#### Logitech Conference Cam BCC950



#### Description:

All-in-one system with HD video. Plug and play with no software installation. Has remote to control functions.

#### Benefit:

Small and easy to use.

Approximate Price: Amazon: \$350 (normally \$299)

## Video and Audio for 4-8 people in room:

### Logitech GROUP video conferencing system



#### Description:

Comes with the Speaker/Mic unit, Power Hub, Camera, and Remote Control. This unit has a Pan Tilt Zoom HD 1080p Camera with 10x zoom. Good for medium sized conference rooms.

#### Benefit:

Easy to use. Speaker is clear. Remote control for camera.

**Approximate Price:** Amazon: \$979

### Logitech Group Bundle with Expansion Mics



#### Description:

Everything included with the Logitech Group Standard. Includes 2 extra mics and is better suited for larger conference rooms.

#### Benefit:

Easy to use. Speaker is clear and extra speakers help with larger groups. Remote control for camera.

**Approximate Price:** Amazon: \$1274

## Computer:

You can use a laptop or even regular computer to connect your videoconferencing system to the internet. You can also use a mini computer with a wireless keyboard and mouse.

## Mini computer:

### Intel NUC NUC6CAYH



#### Description:

Intel powered NUC is a mini computer that includes ports for extra storage and display (4k support).

#### Benefit:

Its small form factor makes it ideal for mounting behind a TV and forgetting about it. Multiple Display Inputs allows up to three displays connected through HDMI or VGA.

**Approximate Price:** Amazon: \$328 for 8 GB DDR3L with 120 GB SSD and Windows 10 Pro.

Other options include the Mac mini or Dell Wyse at higher price points.

## Monitor:

### VIZIO M-Series Quantum 55" Class (54.5" Diag.) 4K HDR Smart TV



#### Description:

Exceptional 4K detail, with 4K UHD and Dolby Vision HDR. Smart TV with non-proprietary browser. Great color. Built in sound control.

#### Benefit:

Browser is non-proprietary so many apps can be used with it. Great resolution.

**Approximate Price:** Amazon: \$550

Most smart TVs work well as a videoconference monitor. Stay away from brands that use proprietary browsers (e.g. Samsung). This can make using some websites and apps impossible. Vizio and TCL are good smart TVs at reasonable price points.

**NOTE: Don't forget to purchase a wall mount if you will be mounting the TV to a wall.**

## Wireless keyboard and mouse



### Description:

Bluetooth keyboard and mouse.

### Benefit:

Can be used wirelessly to control computer during session.

**Approximate Price:** Amazon: \$60

## Wireless Noise Canceling Speaker

Sometimes it's good to have a wireless speaker that clearly indicates when the microphone is on or off and is easy to mute.

### Jabra Speak 510 Wireless Bluetooth Speaker



### Description:

Easy set-up. Light-weight and portable conference call speakerphone. Has both USB and Bluetooth connectivity. 15-hour rechargeable battery.

### Benefit:

Red lights surround outside of the speaker when the speaker is muted and green when on. Allows clear conversation.

**Approximate Price:** Amazon: \$90

## ACCESSORIES TO CONSIDER

### Tripod for webcam

#### Fuguteck Mini Tripod



### Description:

Lightweight standard tabletop tripod. Is about 6 inches tall. Can be turned into a handheld "stick" for observation. Has a 1/4" threaded hole to mount a camera. Includes a spring-loaded bracket to hold a smartphone.

### Benefit:

Can be used to hold webcam, cell phones, etc for stability.

**Approximate Price:** Amazon: \$10

## Document Reader

### Epson DC-07 Portable Document Camera



#### Description:

This document reader is good and portable. You can use this to show visual aids to patients. It also can take a picture of what you have drawn and you can use it to email the patient or upload to your EHR.

#### Benefit:

Easy to use and portable.

**Approximate Price:** Amazon: \$200



Another less expensive option to use as a document reader is to get a second webcam and a mini tripod. This will not give you as nice functions as having the document reader.

**NOTE:** If you want to have both your face on video and the document reader as two separate windows on the screen, you have to connect the document reader to another laptop/desktop and join the videoconference as a separate window.

#### Portability

If you are using tablets with wireless internet and need to move your “telehealth systems”, you may want to have rolling stands.

### Floor Stand, CTA Digital Height-Adjustable Rotating Gooseneck Stand W/Attachable Locking Wheels



**Approximate Price:** Amazon: \$50