

## **Advent Lutheran Church**

### Connecting Devices for Live Stream Worship

#### **Can I watch Advent's streaming service on my television?**

Yes. There are a few different ways, and you probably already have what you need!

There are two different methods, either using a direct cable connection or wireless streaming. Connecting with a cable is the "easiest" if you feel you are technologically challenged, but either method works.

#### **Where can you find help?**

There are three excellent resources if you have questions. The first is Google. Someone has already asked and answered your questions – and written a blog about it! Google will help you find answers. The second is YouTube. Just like Google, someone has already answered your question and made a video! And you can always contact the Church for help.

#### **Direct Cable Connection**

A couple of things to keep in mind.

- You need a cable long enough to reach from your computer to the television
- You need the correct connectors or adapters (HDMI is the standard for television connections)

#### **HDMI Connections.**

If you want to connect your Windows or Apple based computer to your television and both devices use HDMI (have HDMI ports):

1. Connect the HDMI port on your computer to the HDMI video input port on your television using an HDMI cable.
2. Turn on the television and change the video input to use the appropriate HDMI input.
3. Windows
  - a. On your windows computer configure the "Display Settings" for multiple monitors using either the "duplicate my screen" or "extend my screen" options  
Reference: <https://www.support.com/how-to/how-to-connect-a-windows-laptop-to-a-tv-over-hdmi-12554>
4. Apple
  - a. Most newer apple laptops have lightning or usb-c connectors. If this is the case, you need an adapter that converts to HDMI (Apple loves adapters).
    - i. If your Mac has an HDMI port, just connect directly to that.

- b. Plug the adapter into the laptop or computer, plug the HDMI cable into adapter and the other end into your television.
- c. Use the Settings | Display dialog to either mirror or use the television as a second monitor.

## Phones and Tablets with Cable Connections

If you wish to connect your **Android** phone or tablet to your television (with HDMI input) then it is a bit more involved.

1. Determine if your phone supports HDMI-Alt mode (which allows Android devices to output video over a wired connection)
2. Determine what type of connector you have available on your Android device. It likely will be [USB-C](#) or [Micro-USB-B](#).
3. Obtain an appropriate length cable with that type of connector on one end and an HDMI connector on the other end. Or just get an adapter and then use an HDMI cable.
4. Connect the appropriate end of the cable to your Android device and the other end to the HDMI video input port on your television.
5. Turn on the television and change the video input to use the appropriate HDMI input.
6. The screen from your Android device should now be mirrored on the television.

Note: There are other wired options. This is the simplest solution.

If you wish to connect your **Apple** phone or tablet to your television (with HDMI input)

1. Most iPhones or iPads have a lightning connector. It is easiest to get an adapter to go from lightning to HDMI.
2. Connect an HDMI cable from the television to the adapter
3. Turn on the television and change the video input to use the appropriate HDMI input.
4. The screen of your Apple device should now be mirrored on the television.

## Wireless Connections

Connecting your device wirelessly to your television requires that you

- Have a wireless network
- Have a Smart TV that can:
  - Receive a signal on its own
  - Has a streaming device connected to it like a Roku, Apple TV, Chromecast, or Fire Stick

Note: A wireless solution specific to your equipment may require you to do a little research. See above – Google, YouTube, etc.

Before we go further it is important to define two terms.

- “Screen Mirroring” is when you duplicate the display from your device.
- “Casting” is more complicated but lets you stream just a specific video directly to your television.

## **Windows 10**

Here's a simple case with screen mirroring from a Windows 10 computer

- You have a Smart TV (or TV with streaming device) capable of receiving screen mirroring
- From your Windows 10 computer (on the same wifi network) you send the signal by pressing the Windows Key & P simultaneously, then select Connect to a Wireless Display, and then choose your TV from that list
- Depending on your TV you may have to accept the signal or it may just start streaming

## **Android Phone or Chrome Browser**

Example of streaming from your Android device or Chrome browser on a computer

- You have a Smart TV (or TV with streaming stick) capable of receiving a signal and connected it to your wifi network
- From your Android device or Chrome browser on the same wifi network you need to "cast" the signal.
  - From the Chrome browser click on the 3 vertical dots in the upper right and select Cast and then pick your TV or stick
  - From your Android device go to settings and search for "Cast" and then click on it. Then select your TV or stick (you may need to add it first)
- Depending on your TV you may have to accept the signal or it may just start streaming

## **Apple iPhone or iPad (or Mac)**

For Apple products the process is similar, but you will use AirPlay or an AppleTV

- Make sure all devices are on the same wifi network
- From the top right corner of your device, drag down so that you see the option for Screen Mirroring
- Select the TV or AppleTV to send the signal to
  - If using an AppleTV you need to have it connected directly by HDMI to your television
  - If your television accepts AirPlay, you should see the "name" of the TV.
  - If this is the first time you are using AirPlay or Screen Mirroring you may have to enter a code, or accept the signal

Apple AirPlay is also available from most Macs. Options to configure AirPlay are in the Menu Bar when available.

Note: In some cases, your TV may only be able to do screen mirroring and your device may only be able to cast, or vice versa. In such cases the devices won't

be able to interact wirelessly unless you purchase an appropriate streaming stick for your TV that works with your device.

Hopefully the above information helped you to view Advent's streaming service on your television. If not, let us know, and we'll see if we can provide additional assistance.