

Essentials for Live Streaming a Worship Service

1. You will need a **YouTube Premium account to livestream**. \$11.99 (At this point you no longer need the premium account. Just a regular account now works.)
2. A fairly decent **computer**. Minimum requirement Windows 10, Dual Core Processor, 2 gigs Memory and a video card that does Direct X10.1 (almost all do this anymore) Screen Resolution 1280 X 720 Recommended i7 processor, 8 gigs of memory, and a dedicated video card with 2 gigs memory and a screen resolution of 1920 X 1080 We bought a Dell 8300 for \$1400 but you can find a decent i7 laptop with good specs for \$700
3. **Web Camera**: You can use the included webcam and microphone in most laptops, but an external camera and mike allow you more freedom to place things. We got the PTZOptics 20x-USB Gen2 Full HD Broadcast and Conference Indoor PTZ Camera because we will place it at the back of our sanctuary and it has a remote to move back and forth and up and down and zoom it. It was \$1799. But you can get a decent webcam for \$100
4. You have to have a good **mike input**. We ended up with the Shure CVG18-B/C Gooseneck Condenser Microphone, 18-Inch, Inline Pre-Amp, Flange Mount, Cardioid for \$99
5. To get the microphone input into the computer you will need a **USB mixer**. We got the BEHRINGER U-PHORIA UMC202HD, 2-Channel Audio Interface We paid \$118 for on Amazon, but it is currently \$177) I also found a Pyle 4 Channel Mixer with USB out on Amazon (PMXU43BT.5) which also works great Current \$76.99 You can hook it up to your current sound system.
6. Now for the software needed. First off, you will need an **encoding software**. We are using vMix. (www.vMix.com) There is a free low-resolution version that gives you only 4 inputs. The high resolution version (which I recommend) is \$60. If you are just adding a mike input and a camera and not adding any images, videos or audio files., 4 inputs are plenty. However, we are adding more inputs (each video or image is an input) in, then you need the vMix version which goes to 1000 inputs (nothing in between) and the cost is \$350
7. You will need a good video exiting software. We are using **VideoPad** from NCH Software (www.nchsoftware.com) and it is really good. The master version is on sale for \$69 and the more limited version is \$39.95
8. Also useful is **Prism video file converter** from NCH. There used to be a free version but the full version is only \$19.99
9. We use Audacity (<https://www.audacityteam.org/>) to **edit audio files** and to pull audio out of video files. It is awesome and it is FREE!
10. And finally, if all your equipment is upfront and you want to control everything from the back of the sanctuary, we use a **remote control software** called TightVNC (<https://www.tightvnc.com/>) and it is also free. We are now using Remote PC which works better but it has a yearly cost.

There are tutorials all over the web on how to do this, but if you need advice just email me, Bob Kelley, bob@the-kelleys.com