

# Steps to Live Streaming Video

Here's a quick resource for those of you looking to create a simple quality live-stream to Facebook or YouTube. Here's what you need:

- **A digital camera with an HDMI or SDI out** (eg. Canon Vixia or Blackmagic Design Pocket Cinema Camera).
  - Some cameras have XLR inputs so you can connect to your audio console directly. Your camera will then send the audio out via HDMI so the encoder will receive synced audio.
- **A capture device** (eg. Blackmagic Design Web Presenter, Epiphan Webcaster X2, or a SlingStudio Hub).
  - The Blackmagic Design Web Presenter connects directly to your computer via USB and you can use its source as a "webcam" within Facebook and YouTube to stream live.
  - The Epiphan Webcaster X2 and SlingStudio Hub will stream directly to Facebook and YouTube without a computer.
- **High Speed Internet.** To livestream without interruption and buffering a church's upload speed will need to be 5mbps for 720p and 10mbps for 1080p. If you do not have those consistent upload speeds, the best option is to pre-record the service and upload ahead of time. You can then create a premiere party on Facebook or schedule your post on YouTube.
- **(Optional) A Content Distributor or CDN.** A CDN pushes your video stream to several platforms like Facebook and YouTube at the same time. We recommend using Churchstreaming.tv for this. They are currently providing their service to new customers free for 90 days in response to COVID-19. After that their basic service is \$79.99 a month. They also offer higher tiers which will allow you to stream to Roku and Apple TV.

Below are some options for the different gear you can buy. We have grouped them by price packages.

### **Basic Tier**

- Option 1: Good quality iOS or Android phone/tablet streaming directly to Facebook on a good WiFi signal.
- Option 2: Pre-record the service and upload ahead of time. You can then create a premiere party on Facebook or schedule your post on YouTube. Have live hosts interact with the congregation during the video.

### **Economy Tier (\$763.99) - All on Amazon.com**

- Canon VIXIA HF R800 - \$220
- Sony VCT-R640 Lightweight Tripod - \$40.49
- RODE VideoMic Studio Boom Kit- \$199.00
- Cable Matters High-Speed HDMI to Mini HDMI Cable - \$9
- Epiphan Webcaster X2 hardware encoder - \$295

### **Standard Tier (\$1767.00 - \$2267.00)**

- Canon VIXIA HF G21 Full HD Camcorder - \$999.00
- Manfrotto MK190X3-2W Aluminum 3-Section Tripod Kit - \$259.88
- At this level, you likely are running a full soundboard so we recommend that you run the audio out of the soundboard and into the camera
- Cable Matters High-Speed HDMI to Mini HDMI Cable - \$9
- Blackmagic Web Presenter encoder (\$500) or SlingStudio Hub (\$1000)

### **Premium Tier (\$2500+)**

- To stream at this tier we recommend that you ask a consultant to help you process through the best gear for your church.