

Start Livestreaming Inexpensively

1. Single camera & no overlay or multiple cameras and/or overlay?
 - a. If multiple cameras or overlay, then a video switcher is required.
2. Video Switcher – Hardware or Software Based
 - a. OBS – Free Open Source Software – not as polished or feature rich as commercial, but its free!
 - b. vMix – Commercial video switcher software**
 - c. Blackmagic Atem SDI – Hardware switcher, computer not required, no NDI support
3. Cameras – how are we capturing the images
 - a. Old Cell phone with NDI camera app (\$20)**
 - b. Sony handycam or equivalent (varies used around \$100)
 - c. Refurbished GoPro (~\$150)**
 - d. New GoPro (\$240 to \$300 + \$80 media mod)**
 - e. AVKANS PTZ (\$450 + \$550 Controller)**
 - f. Logitech Mevo (\$400 + \$200 Ethernet adapter)
4. Sound
 - a. Music
 - i. Soundstripe (\$10/month)**
 - ii. Musicbed (\$30/month)
 - iii. Artlist.io (\$17/month)
 - b. Mixer
 - i. Existing Mixer (free?)
 - ii. Behringer XR18 digital mixer (\$460)**
 - iii. Behringer X32 Rack (\$900)
 - c. Microphones
 - i. Existing Mics (free?)
 - ii. Audio Technica atw-1322 (\$900)**
 - iii. Samson dual vhf mic (\$189)
 - iv. Various brands (just stay away from 600mhz band, became illegal in 2020)
 - v. Crowd Mics (Lewitt LCT 040 \$200/pair)
5. Projector / TV
 - a. Projector More lumens the better, especially in a gym
 - i. Epson Projector (3500 lumen or greater) (\$500)**
 - ii. Screen 150" (\$110)**
6. Various supporting hardware
 - a. If going, non-NDI cameras, then convert your signals (usually hdmi) to SDI (\$50-\$200)
 - b. If going wireless NDI – have a dedicated, strong 5ghz wifi network (**Ubiquiti Unifi AC Mesh Pro \$200**)
 - c. If going wired cameras with a software switcher, a multi-channel capture card (**Blackmagic Decklink quad2 duo \$400-\$1000**)
 - d. Gimbal for camera / cellphone for roaming shots (**Moza Aircross 3 \$450**)

Highlighted in bold is the hardware I use.