

# Professional Looking, Budget Streaming/Recording System

**Canon VIXIA HF R800 Camcorder** [\\$249](#) Must be hand controlled by a videographer. Normally mounted on a tripod.



**Blackmagic Design ATEM Mini Pro HDMI Live Stream Switcher** [\\$595](#) Capable of handling 4 HDMI inputs, two audio inputs, recording and streaming live, plus multiple effects and transitions for your videos.

**2 - High-Speed Mini HDMI to HDMI Cable (HDMI to Mini HDMI) 4K Ready - 10 Feet, Black** [\\$8.99 x2](#) Two are needed if you add a second Canon camera. This cable connects the Canon to the switcher HDMI input.

**HDMI cable** [\\$9.95 x2](#) for connecting presentation computer to switcher.

**Cat6 cable to connect unit to internet** 10' [\\$4.09](#)

**TV for Monitoring** [\\$69.95](#) [Walmart](#) connected to HDMI out of switcher. You can choose any TV with an HDMI input. A computer monitor will not work with the switcher.

**Ethernet switch** (needed only if you have only one ethernet port in your sanctuary. It is recommended to use a direct feed to your internet provider but in some cases wireless connection will also work if the speed is adequate) [\\$15.99](#)



**Audio Cable** [\\$14.99](#) You may have to study the output of your sanctuary sound mixer to see what cables or adapters you need in order to connect to the Blackmagic Design Mini Pro sound input; such as 1/4 to 3.5 mm splitter [\\$9.95](#) for 1/4 stereo outputs to 3.5, or 1/4" to 3.5mm [\\$22](#) from headphone out to Blackmagic in.

**USB type-c adapter [\\$19](#)** Needed to set up the Blackmagic mini Pro with an available computer.

**USB Male to Male CABLE [\\$5.49](#)** Needed to set up the Blackmagic mini Pro with an available computer. Used in conjunction with USB type-c adapter.

*(last 2 items not needed if you place two camcorders side by side. Needed if you add a second camera two of which are listed as optional below and place the second camera remotely.)*

**J-Tech Digital HDMI Extender [\\$54.69](#)** This unit will allow you to extend the reach of your HDMI cables so that you can place your camera remotely. Transceiver and Receiver are connected by Cat 5e or Cat6 cable.



**Cat6 Ethernet Cable 50 ft White [\\$17.99](#)** This length for the cable is only a suggestion. You will need to measure what length you need depending on the location of the second camera.

**Base system Total = (\$1011.39 without extender and Cat6 50') \$1084.07 with last two items**

## Options

If you want a two camera system there are two recommended options:

**1. A second Canon VIXIA HF R800 Camcorder [\\$249](#)**

Using this as a second camera will insure a perfect resolution match in your recordings/stream. **Total base system plus this camera \$1260.39**

**2. AViPAS AV-1081 HDMI PTZ Camera [\\$620](#) -**

this unit will allow you to control remotely with panning, tilting and zooming. It has multiple presets available with the included remote control. Also note that this camera has only a



10x zoom range so it cannot get shots as close as the Canon camcorder unless you place it closer to the front of the sanctuary. For a 20x zoom PTZ you most likely would have to pay over \$1500. **Total base system plus this camera \$1631.39**

*Note: You will also need at least one good tripod with this system. You can install the PTZ on a shelf, a ledge or with brackets in the best location possible.*

**HDMI splitter [\\$69.95](#)** - Use this if your computer for presentation software uses an HDMI output for it's monitor. This splitter allows you to change the resolution in case your monitor and the Blackmagic mini pro HDMI ports are different. If it uses a display port a display for to HDMI adapter is needed. [\\$9.99](#). If it use a DVI port, a DVI adapter is needed. [\\$5.50](#).



**VGA splitter** (if your computer for Presentation software uses a VGA monitor [\\$14.61](#) **used with VGA to HDMI converter [\\$49.99](#)**

**A good, solid, fluid head Tripod [\\$79.95](#)**

## System Summary

This system contains two cameras for streaming/Recording when purchasing the second optional camera. The heart of the system is the Blackmagic Design switcher which allows the mixing of the various sources and streams to a live steaming service like YouTube or records to a USB hard drive. It also allows a connection to an optional computer for recording or streaming. The mixer can also be connected to the church's current computer for controlling the settings for the mixer. The sound for the recordings is captured directly from the sound mixer of the sanctuary and the Presentation comes from the computer the church owns (if you desire graphics in your recording/stream.) A new high quality Canon camcorder is the main recording source. The second camcorder allows for another recording source to be used while the first camera is setting up the

next shot. You can use a second Canon camcorder or the optional PTZ camera. It does not have the zoom range of the other two camcorders but allows multiple angles with presets that can be accessed with a touch of the buttons on the remote control device included. This system allows for making pre-recorded videos from the sanctuary, allows for integration of music videos recorded at a different time and fed into live worship, allows for editing of videos for posting later, or Streaming and recording live worship or events to YouTube or Facebook live. With the optional USB hard drive or a USB thumb drive you can make recordings from this system. You can also record to the presentation computer with a USB cable. Later, if you so desired, you could add a separate computer to connect to the Mini pro mixer for many more mixer/recording and streaming controls available through a software interface (a free download from Black Magic).

### **Also Optional for a later time if desired**

**WD USB Hard Drive [\\$64.99](#)** For recording videos directly from the USB port on the Blackmagic design Mini Pro.

**Pinnacle Studio Plus [\\$79.95](#)** Used for editing your videos and posting them on the internet or burning the files to DVD's.

Most of the items are available through [B&H Photo](#)