

Welcome to Streaming 101

Thanks for being with us, we will be starting
shortly. 9:00 am PDT



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Steve Lacy – President JSL Solutions



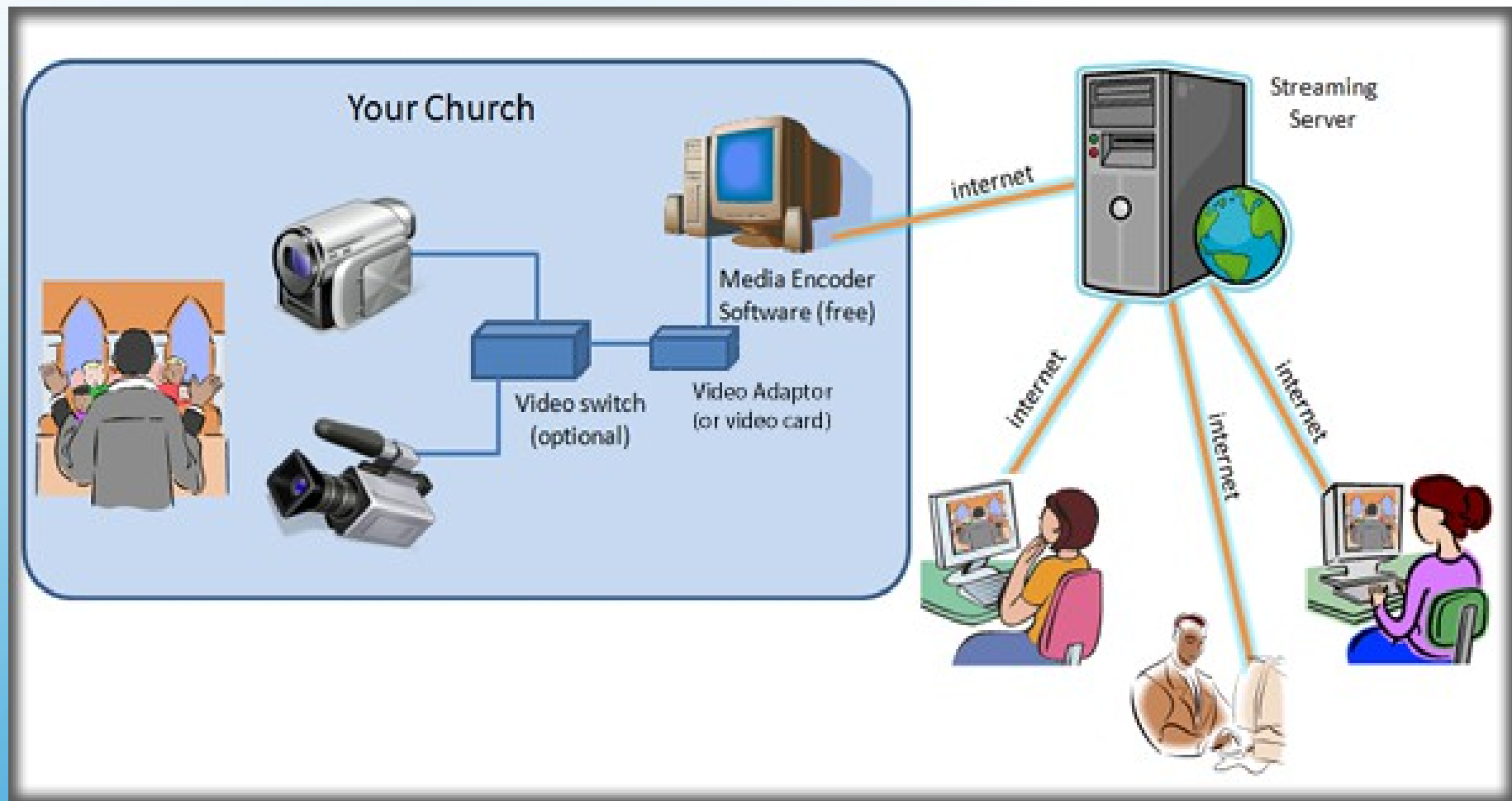
Phil Thompson – Executive Director JSL Solutions

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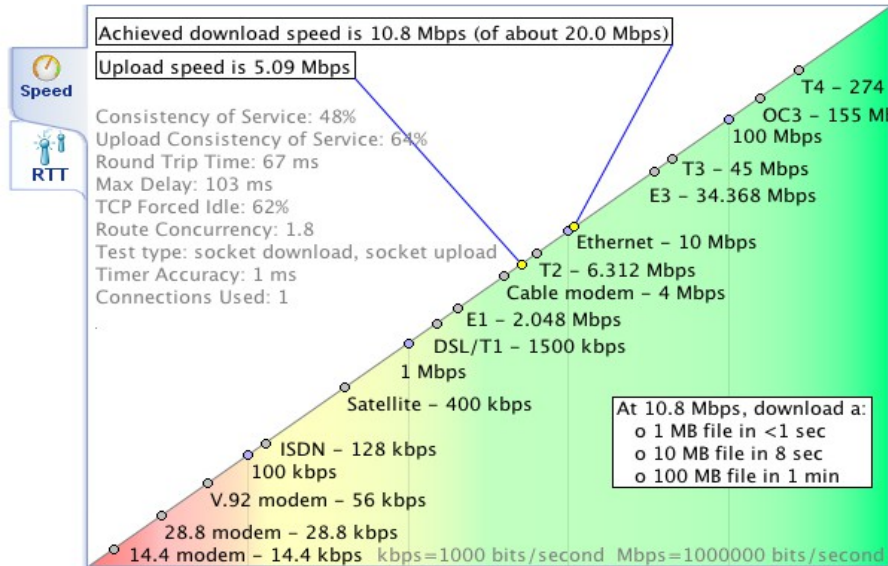


How Streaming Video Works



**What Do You Need To Do
Streaming Video?**

MySpeed Test (Application Speed)



Internet Upload Speed

Technical Specifications



Mac Minimum Requirements:

- Operating System*: OS X 10.7 (Lion) and later
 - ◊ OS X 10.8 and later required for Local Desktop Presenter, Virtual Microphone Output
- Mac computer with Intel Core 2 Duo processor
 - ◊ Core i5 or later recommended for 720p streaming
 - ◊ Core i7 recommended for 1080p streaming
- 2GB RAM minimum
 - ◊ 4GB recommended for 1080p streaming
- 200MB free hard drive space for installation
- Hard drive space for recording to disk
- Compatible Flash streaming server, or account with a supported Flash streaming portal required for Flash H.264 streaming
- QuickTime Streaming Server or Darwin Streaming Server 4.1.3 or later required for QuickTime Unicast Streaming
- 256 MB PCI-Express graphics card with 3D acceleration
 - ◊ GeForce or Radeon class card recommended
- Sufficient upload speed for streaming
 - ◊ Minimum recommended 500Kbps for 240p, 5Mbps for 1080p
- Note: There is a memory leak in Intel HD Graphics 4000 drivers on Mac OSX 10.8.2. This affects newer Mac Minis, MacBook Airs and 13 inch MacBooks that contain the Intel HD Graphics 4000 graphics card and no secondary graphics card. Upgrading to OS X 10.8.3 resolves this issue.

**Please note: Wirecast 5 does not support Mac OS X 10.6*



Windows Minimum Requirements

- Supported Operating Systems*: Windows 7 or Windows 8
- Minimum Dual-core CPU required, 2.3 GHz 32-bit or 64-bit
 - ◊ 2.8GHz or higher recommended for 720p or higher streaming
- 2GB RAM minimum
 - ◊ 4GB recommended for 1080p streaming
- QuickTime 7.7 or greater
- 200MB free hard drive space for installation
- Hard Drive space for recording to disk
- 256 MB PCI-Express graphics card with 3D acceleration
 - ◊ GeForce or Radeon class card recommended
 - ◊ NVIDIA cards may cause some visual distortion if YUV color space rendering is enabled in Preferences.
- Microsoft DirectX 10 required
- Sufficient upload speed for streaming
 - ◊ Minimum recommended 500Kbps for 240p, 5Mbps for 1080p

**Please note: Wirecast 5 does not support Windows XP*

Computer Specs



Cameras For Streaming



Prosumer GL2

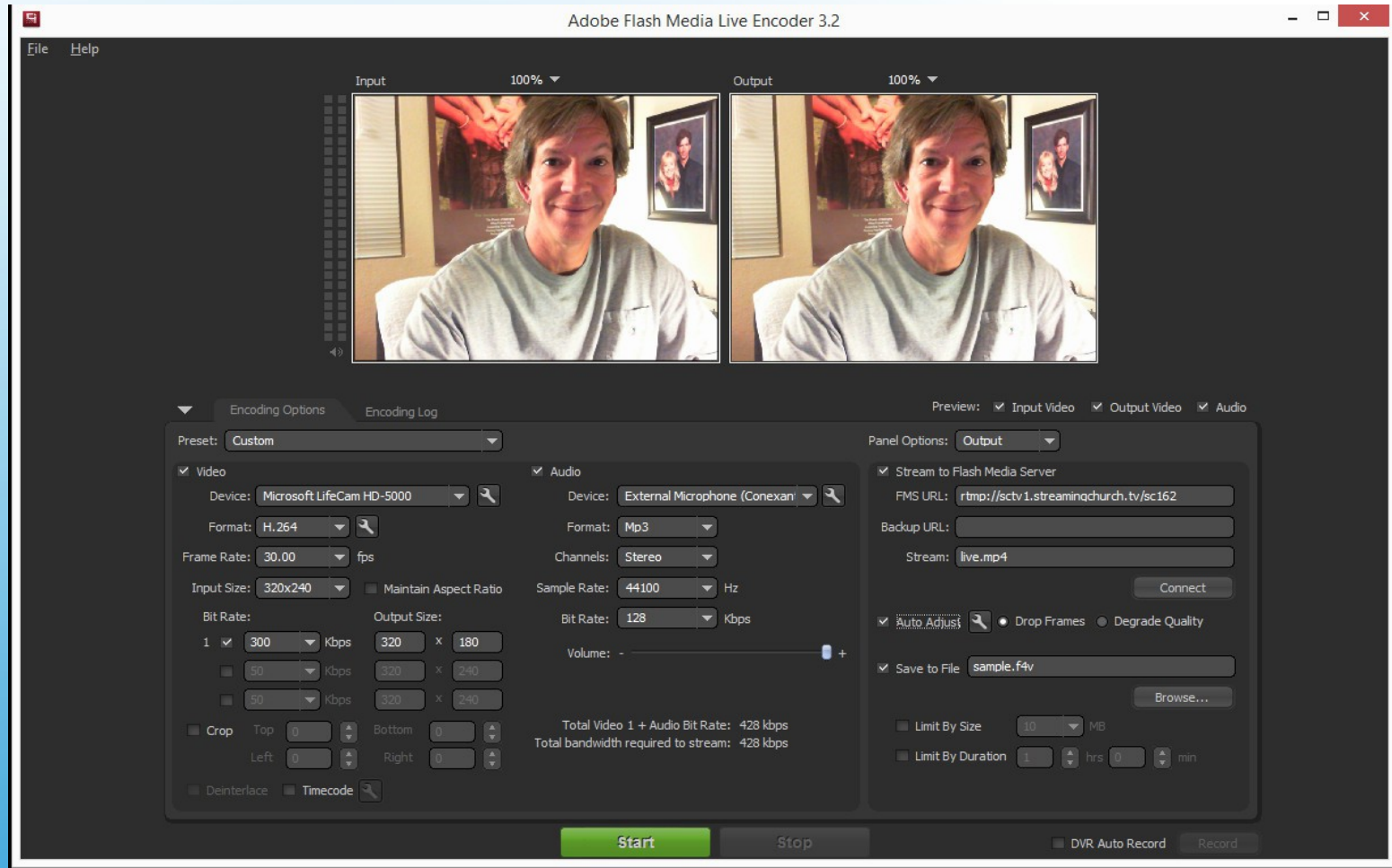


Other Camera Options

StreamingChurch.tv Equipment Recommendations

	Good	Better	Best
Camera	 <p>Almost Any Consumer Camcorder Analog, SD output \$300 - \$500</p>	 <p>2 Canon XA10HD Camcorders \$3000</p>	 <p>Vaddio Wallview 100 PTZ Camera System 3 Cameras \$4100</p>
Adapter	 <p>Grass Valley ADVC 55 \$180</p>	 <p>2 Grass Valley HD 50 \$1300</p>	 <p>Vaddio Sony Joystick Control Bundle \$1495</p>
Encoder	 <p>Flash Media Live Encoder (free)</p>	 <p>Wirecast Studio \$495</p>	 <p>Wirecast Pro \$950</p>
Internet	DSL or better	Cable or better	Dedicated High Speed Cable

Some Recommendations



Live Encoders

- Setting Up FMLE (Flash Media Live Encoder)

<http://tinyurl.com/sctvlive>



Wirecast



Wirecast with 3 cameras



Hardware Live Encoders



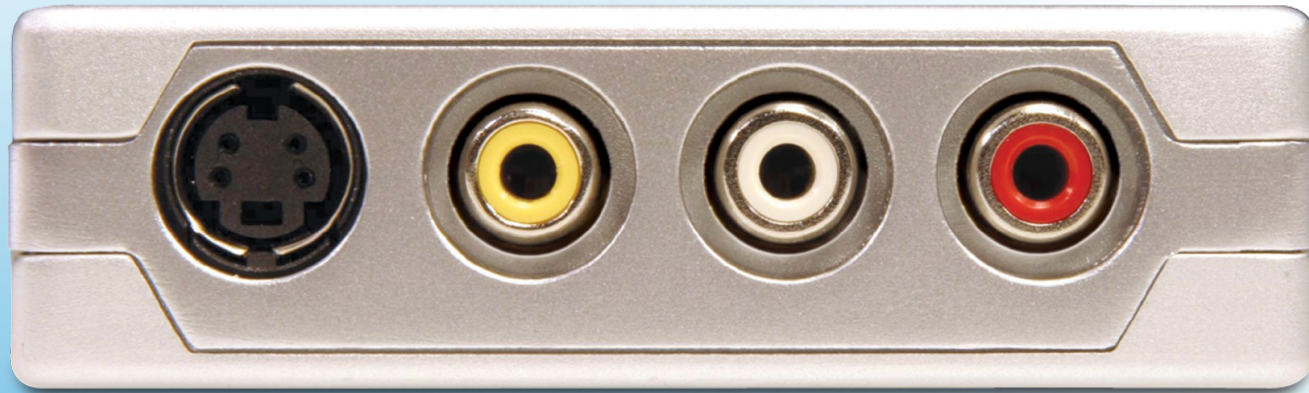
Digital Video Switchers



Grass Valley ADVC 55



Firewire



Grass Valley ADVC 55



How It Works



Audio Mixer



Lighting



RC Motion Panel

Main Description:

Voltage: AC90-240V 50/60Hz

Power consumption: 30W

Lamp: 288*10mm LEDs (R:96 G:96 B:96)

Channel: 6

Control Mode: DMX-512, sound control, auto, master-slave

3-pin XLR in and out for DMX

4-button LED digital display

RGB Color Mixing, strobing effect

Remote control (included) within 8m



Lights

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