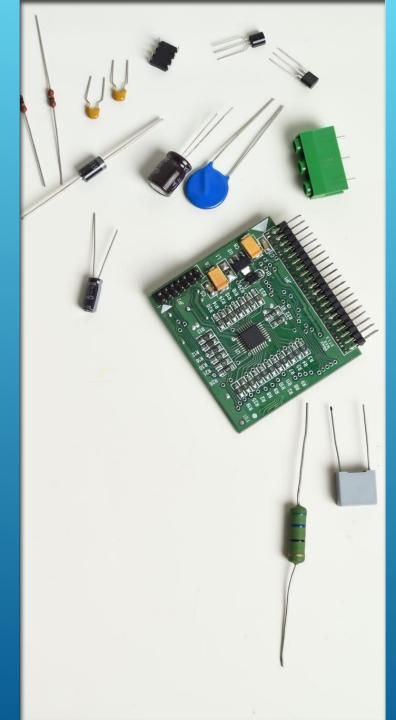


## LIVE STREAMING OVERVIEW

Presented on May 17, 2023 by Andrew Porter, Dennis Tkalec, Pastor Rylan andrew@headbackup.com



## ABOUT US

- Andrew currently manages
   the Information Systems
   department at the Guam
   Seventh-day Adventist Clinic
- Dennis is a Systems Analyst at the Guam Seventh-day Adventist Clinic
- Pastor Rylan Kuartei is the Lead Pastor at Agana Heights Seventh-day Adventist Church



### WHY STREAM?

- Reach people around the world
- Sick or homebound members
- Stay connected with members after they relocate
- Sharing tool
- Overflow seating
- Friends and family who can't attend in person
- Consider negative impacts
  - Low quality / reputation
  - Privacy





# WHAT TO STREAM & WHAT TO KEEP?

- What to stream?
  - Church service
  - Sabbath school kids programs
  - Special events: weddings, funerals, seminars, baptisms, dedications, etc
- What to keep or post online?
  - Just the sermon vs whole service
  - Can trim after the live event
- Copyright Considerations
  - https://us.ccli.com/streaming/
  - https://christiancopyrightsolutions.com/worshipcast/



## WHAT DO YOU NEED TO GET STARTED?

- Internet connection
- Device with a camera
- Streaming destination
  - Free / low cost options
    - > Zoom
      - Free version has a time limit
      - Can get discounted licenses through GMM
    - ▶ Facebook
    - > YouTube
  - Advantages of a paid streaming destination
    - > Maintain control
    - ► Avoid unexpected ads
    - Lower risk of copy right issues











### DEFINING REQUIREMENTS

Budget

► Low: \$300

▶ Medium: \$1500

Medium/High: \$3000

► High: \$10,000

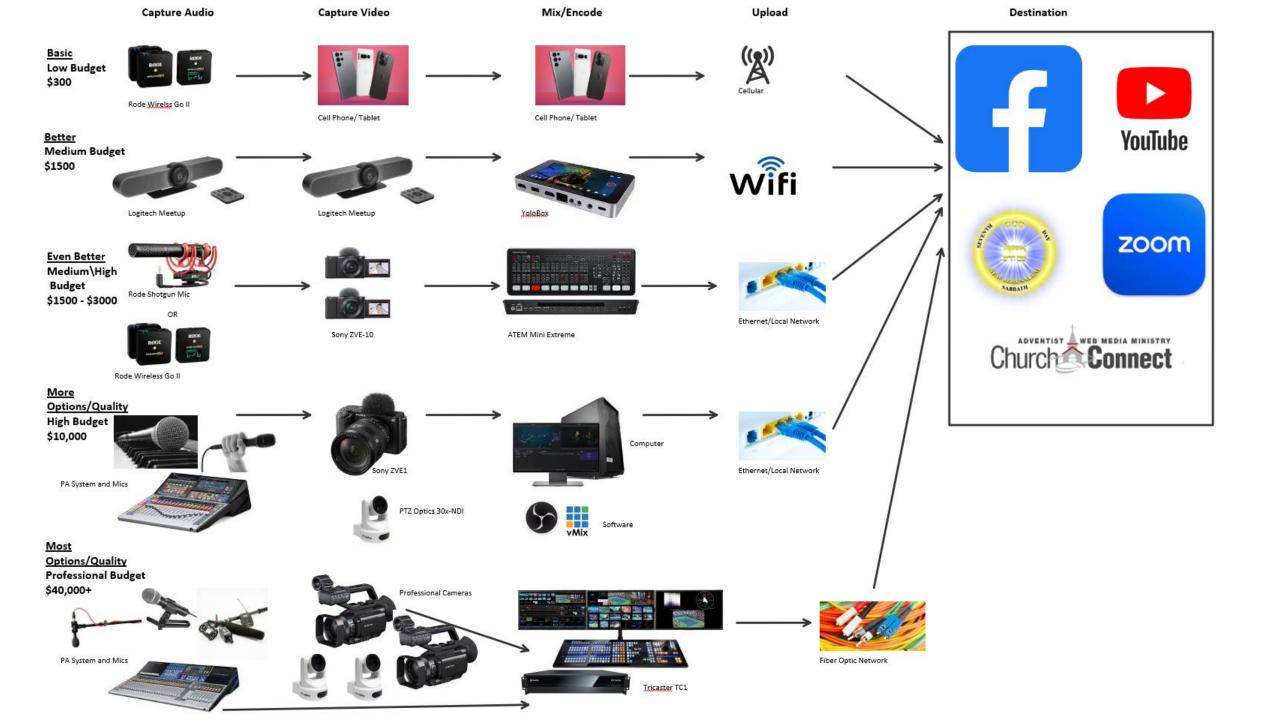
Professional: \$40,000+

▶ How many viewers?

How much bandwidth?

Video Quality	Absolute Minimum Upload Speed	Recommend X 1.5 Upload Speed
720p (SD)	3.0 Mb/s	4.5 Mb/s
1080p (HD)	5.0 Mb/s	7.5 Mb/s
1440p (4K UHD)	25 Mb/s	37.5 Mb/s

- ▶ How many cameras?
- Crew size and skill level









Ethe

Tricaster TC1



#### AUDIO

- ▶ Listen to your audio!
- Audio is most important, more important than video
- Mic placement is the biggest factor in getting good audio the closer the better
- Not all mics are created equal, different qualities, different purposes
- Live stream audio is different than front of house audio
  - Can have a dedicated mixer



### DESTINATIONS

- Zoom
- Facebook
- YouTube
- Adventist Church Connect
  - ▶ Plans starting at \$24.95 per month
  - https://www.adventistchurchconnec
    t.com/help/knowledge-base/livestreaming
- Sealing Time Ministries
  - Adventist supporting ministry,Streaming starting at \$15 monthly
  - http://www.sealingtime.com

### STATISTICS & FEEDBACK

- ▶ Why count?
  - > See if the ministry is reaching people
- > Feedback
  - Live feedback regarding broadcast problems
  - Interaction during the event
- > Statistics
  - YouTube / Facebook

#### ARCHIVING & DISTRIBUTION

- Where to post the videos?
  - > Your web or streaming hosting provider
  - Vimeo
  - YouTube
  - > Facebook
- > Podcasting
- > Thumb drives
- ▶ Backups
  - ➤ What if you lose account access?

#### OTHER THINGS TO CONSIDER

- Projector display on site (closed circuit)
- Presenter content (slides, scripture, movies)
- Physical installation (mounting, cabling, work area)
- On going support & maintenance
  - Keep it simple
- Staff training & scheduling
  - Camera operator best practices

## QUESTIONS?

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#### Additional Resources:

- For more technical details and to download this presentation: <a href="http://headbackup.com">http://headbackup.com</a>
- > Adventist Church Connect Resource document:
  - https://www.adventistchurchconnect.com/file/49 /Live+Streaming+for+Beginners+Document.pdf