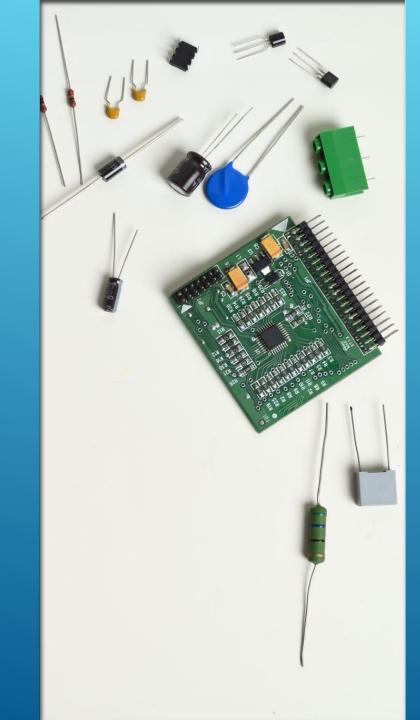
INTRODUCTION TO LIVESTREAMING

Presented on May 17, 2023 by Andrew Porter, Dennis Tkalec, Pastor Rylan





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





Rode Wireless Go II



Rode Wireless Go II





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
 - <u>https://www.adventistchurchconnec</u> <u>t.com/help/knowledge-base/live-</u> <u>streaming</u>
- > 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)
- Lighting
- On going support & maintenance
 - Keep it simple
- Staff training & scheduling
 - Camera operator best practices

QUESTIONS?

Andrew contact information: <u>andrew@headbackup.com</u>

Additional Resources:

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