

What your church needs to live stream worship well

Handout #1 for the July 18, 2020 Zoom webinar • The Episcopal Diocese of Newark

Equipment Options

Low \$

- iPhone, Android Phone, or Tablet
- Stabilizer (table-top or full tripod) with mount
- iPhone Adapter for TRRS (three rings)
- Portable Power Bank

You can buy phone/tablet accessories separately, or purchase pre-assembled bundles from iographer (for any phone or tablet) <https://www.iographer.com/collections/live-streaming> or Padcaster Studio (for iPhone and iPad only; also pricier) <https://padcaster.com/>

Medium \$\$

- Mevo Plus \$299 (with boost add \$199) or Mevo Start \$399 <https://mevo.com/>
- Ethernet and Power adapter for Mevo Start \$199
- Tripod

High \$\$\$

- PTZ Optics (Pan Tilt and Zoom Camera) \$1400-\$1700 — multiple interfaces
- Network Controller \$169
- iPad or PC Computer (with monitor)
- Ethernet cabling
- HDMI or USB cables
- Audio: Shure Ceiling microphone \$79-\$399
- Installation required (?)

Optional, if needed

- Rode Wireless Go microphone \$199 <https://wirelessgo.rodeteam.com/>
- Ring Light for single shot \$88.00
https://www.bhphotovideo.com/c/product/1490918-REG/gvm_gvm_hd_18s_gvm_hd_18s_55w_bc.html

Ring lights of various sizes and prices are also available from Amazon

For installation of high-end systems

Synapse Audio Visual Designs, LLC in Paramus <http://synapseav.com/>

Stephen Cannella, LC ETCP, Managing Partner & Chief Design Consultant

201-576-9200 (o) • 551-206-4323 (c)

Synapse Audio Visual Designs, LLC is a design/build firm that specializes in demanding technical and artistic audio, video and lighting projects in the commercial, industrial, entertainment, and residential markets. St. Mark's, Teaneck worked with them to install their high-end live streaming system.

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10 Zoom Tips

1. **Focus on lighting: Face the light** — make sure that your lighting is in front of you and not behind you. When you are “backlit,” you appear very dark as your camera focuses on the light and not you! Don’t have a window behind you. Close your blinds or shade if your computer set up can’t be adjusted.
2. **Background** — If you are able to move, choose an interesting background like a full bookshelf or a study with interesting photos or pictures in the background.
3. **Framing** — Keep the camera eye-level or higher. If it is at low level, the viewer will be looking up your nose. You also want to make sure your computer is at least a little bit elevated so that you don’t have the double-chin effect.
4. **Use a stabilizer (If you are using your iPhone or Tablet)** — Don’t try to hold your phone as in a “selfie.” Stabilize your phone on books or something that can be stacked in a way that the phone camera remains at eye level.
5. **Avoid shiny spots on face** — Blot your face before recording.
6. **Audio** — If you live in a noisy area, use the headphones that came with your iPhone. Those headphones include a microphone that often wipes out or tones down outside noise. If you can purchase a microphone, choose a USB mic like the Blue Yeti or a lavalier mic. Both are relatively inexpensive on Amazon.
7. **Practice your message** — You don’t have to read it but know what you’re going to say before you begin recording.
8. **Wear solid colors** — Plaids or stripes can make your camera go a bit wonky.
9. **No sudden movements** — Try not to wave your arms or make rapid movements during the livestream. Also, if you have a ceiling fan above your shot, turn it off. The camera is trying to “digest” too much information and you may have an interruption in your signal.
10. **TEST YOUR INTERNET SPEED** — Go to google.com and type in “internet speed test.” In the first entry you should see ‘test speed.’ Your upload speed should be at least 10mbps. However, check with your provider to see how much you are paying for. Also, check your speed at various times during the day. Depending upon the service, you might see varying speeds. Facebook likes an upload speed of 4 MBPS. However, you’ll need at least 10 MBPS for a smooth transmission.