Mevo Start Camera Guidelines

The information provided below was provided by a ward in Europe using the Mevo camera to stream sacrament services to the Church webcast system. As mentioned in the document, there are several other platforms this camera supports as well including YouTube Live – referenced below.

The Mevo camera is a good solution and works well. It is an all-in-one camera and streaming device. The estimated cost for the camera is $400.00 plus any accessories purchased.

The instructions below are not intended to duplicate material found on the Mevo support page: https://help.mevo.com. We want to provide additional guidelines we have discovered while testing the Mevo camera and implementing webcasts.

To get started, download and install on your mobile devices the apps Mevo 2.0 and Mevo Mic. They are available for both iOS and android devices. The Mevo 2.0 app is the one you will use to configure and control your webcast. The Mevo Mic app allows you to use the mic of a second device as an additional audio source (more details below).

We find using the Mevo 2.0 app well designed and intuitive. Start by turning on the camera. Hold down the power button at the back for 3 seconds until you hear the beep. Normally Mevo 2.0 on your device will communicate with the camera using a wired or wi-fi connection on the same LAN. If you don't have a wired connection, the first time you use the camera you will need to connect the Mevo2.0 app to the camera using Bluetooth. Once you have the Bluetooth connection, configure the Mevo for your wi-fi. Thereafter, when you power-on, the camera will connect to the wi-fi. Each time you power-on the camera it will take a minute or two to make the wi-fi connection. The 4 LED lights on the camera back will blink until the connection is made.

Browse through the options to get a feel for what it can do. With questions refer first to the Mevo support pages.

Internet Access

The Mevo supports both a wi-fi connection and a wired ethernet connection via the camera's USB C port. This requires an USB C to ethernet adapter. Mevo offers for $100 an adapter that does both ethernet and USB C charging. We have found that any USB to ethernet adapter will work if ethernet is the only function of the adapter. These adapters can typically be purchased for $10 or less. A few multi-function adapters (those that have additional USB ports and HDMI) will work. (See: https://help.mevo.com/hc/en-us/articles/360043944091-Mevo-Start-PoE-Adapter-3rd-Party-Ethernet-Adapters) For both power and ethernet together, we recommend the Anker Power Expand+ 7-in-1 USB-C PD Ethernet hub. We have also successfully tested with older ethernet to USB A adapters coupled to an USB A to USB C adapter. The only issue with the ethernet only adapters is the camera battery cannot be charged at the same time you are broadcasting. Be sure that the camera is fully charged before connecting the ethernet adapter for broadcasting. This should not be a major problem since the camera has a 6-hour battery life.

We recommend disabling the wi-fi access points in the meetinghouse during webcasts and use just the ethernet for access to the internet. If you choose to use the wi-fi, you will also want to add the camera to the local "nosplash" group using the Technology Manager portal (tm.churchofjesuschrist.org).

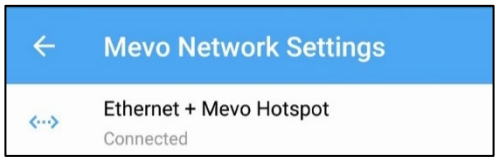
If you are using a wired ethernet connection, you can set the camera up as a "hotspot" to connect your mobile devices running the Mevo 2.0 and Mevo Mic apps. They will need a wi-fi connection after the meetinghouse wi-fi is disabled. By default, any device can connect to the Mevo hotspot. We recommend adding a password for the hotspot.

To set-up the Mevo's hotspot password while using an ethernet connection:

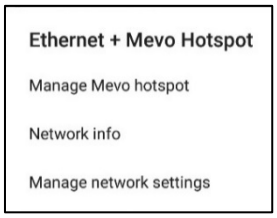
1. Tap *CONFIGURE MEVO*



2. Tap *Ethernet + Mevo Hotspot*



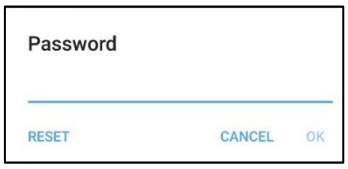
3. Tap Manage *Mevo Hotspot*



4. Tap *Password*



5. Enter password and tap *OK*



6. Tap *SAVE* (on screen from step 4.)

Camera Placement

Since the Mevo camera has a fixed lens with limited digital zoom, it is best to position the camera near the pulpit in the chapel. See the images below for possible setup.





Because a wired ethernet connection is preferred, your choice of camera placement may depend on the location of the ethernet (RJ-45) jacks in the chapel. We personally like the tripod option set in front of the pulpit because it allows us to easily pan to the organ, chorister, or any other location in the chapel.

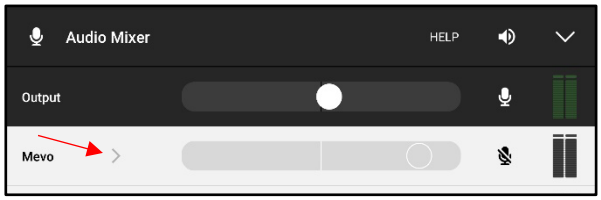
Audio

The Mevo camera has a good built-in mic array. When camera placement is on a tripod in front of the pulpit, there will be a little bit of a hollow sound to the speakers and it will pick up any conversation of members sitting close to the camera. To avoid this, Mevo supports additional audio sources using the Mevo Mic app. Another mobile device (iOS or android) connected to the Mevo camera using the Mevo Mic app can function as an additional mic. We have had good success connecting a cell phone with Mevo Mic then laying the phone on the pulpit. You can also connect a lapel mic to the phone using its 3.5 mm jack. Put the phone in a pocket – allowing the speaker to roam.

While using Mevo Mic, be sure to mute the device's speaker, block incoming calls, and configure your device to prevent the OS from putting the Mevo Mic app to sleep during the webcast. The way to prevent sleep varies between devices. You will need to configure based on your device. The easiest way we know to block incoming calls is to put the device in airplane mode then re-enable the wi-fi. Since Mevo Mic requires a wi-fi connection, it is best to connect the device running Mevo Mic to the camera's hotspot. This will allow you to disable the meetinghouse wi-fi during your meeting.

The camera control program (Mevo 2.0) has a simple audio mixer pane that allows you to:

- activate and mute audio sources,
- individually set the volume of connected audio sources,
- choose between "general", "music", and "speaker" settings. To see this option in the audio mixer, you may need to tap the arrow to the right of the "Mevo" label.



The audio of your broadcast will be much better if you actively change the setting during your meeting as it progresses from speaker to music and back.