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## *Gower Street United Church*

### *Video Stream and Recording System – Main Sanctuary*

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#### **System Overview – Updated June 1 2021**

Gower's 2021 Video System has been designed to enable high quality, professional looking live streaming, large screen projection and recording of its Sunday church services and in sanctuary concerts / events. In addition to providing a high quality of service, the system can be managed/operated on most occasions, by a single trained operator.

Principle System Specifications are:

1. Four (4) cameras are in place that can view the entire width of the pulpit end of the sanctuary, pulpits, organ wall and choir loft, entire east side balcony (GC Band area) including close ups of the pulpits, organ side view, band director location, lower rail, piano, baptism font, youth congregation area and projection screen. These areas also serve to provide excellent wide and tight views of the stage area when in use for concerts and similar occasions.
2. A maximum HD Video camera resolution of 1980x1080p with low light capability allows for a high quality, high definition production.
3. One of the three cameras is tripod mobile, with manual operation for smooth zoom and fluid panning.
4. Two (2) of the cameras have remote controlled Pan Tilt Zoom (PTZ) capability. This allows location presets to be quickly recalled by the operator for rapid pre program camera positioning, thus reducing the need to broadcast long periods of zoom and pan without content.
5. A wall mounted projector feed is available as an HDMI input located at the main pulpit. Another feed is possible from the computer located at the AV control booth.
6. The projector and projection screen can be operated remotely. The screen can be controlled from anywhere within the main sanctuary with a wireless remote.
7. The fourth camera acts primarily as a capture device for viewing the contents of the Projection Screen. By using a camera, the system is somewhat less complex and is independent of the projection source. The fourth camera can also be used for other views during events that do not require the projection screen.
8. Gower's AV system employs a state-of-the-art hardware video switcher/mixer to minimize the need for software and related computer training / operator knowledge.
9. The video switcher supports 4 HDMI video streams to handle the 4 cameras.
10. Limited Picture in Picture (PIP) and Program Stream Preview are features of this system.
11. Prepared graphic slides such as Date, Welcome, Thank you for Watching, etc, can be easy added as a fifth scene using the AV Control Computer and dedicated control software. Once the graphic has been loaded into the Video switcher, it can be switched in and out in the same way as the four cameras, with the touch of a button.

12. The video switcher supports a configurable direct to on-line live stream with one touch stream activation (YouTube, Facebook or Twitch options). Gower's system has been set to stream directly to a dedicated YouTube Channel.
13. Mixed audio from the sanctuary is fed directly from Gower's existing 16 channel audio system and mixed with the video stream at the video switcher. The video switcher has control over the final output Live Stream sound volume. Overall audio mixing is still managed by the original iPad based Mackie Master Fader software.
14. High speed recording of the Program Stream, including all individual simultaneous video feeds are possible with a single touch of a button.