

# Summary of Streaming Proposal

## Camera:

There would be a remote controlled PTZ (pan / tilt / zoom) camera on the back wall of the church. This can be controlled by the operator using a joystick control panel.



## Streaming Device:

A Blackmagic ATEM Mini Pro would combine the video from the camera with the output of our existing AV system to stream to YouTube or other streaming platforms. It provides a preview of each input on a monitor for the operator to see what they are about to switch to.



Total for equipment listed above, including cabling and installation of camera: £4014 inc VAT

## Cabinet:

In addition to the equipment above we would also need somewhere for the controllers / monitor to go. There are 2 options for this. The preferred option which would look better and be most practical would be to replace the existing AV cabinet with a longer one which would also accommodate the streaming equipment. The approximate cost of this is £2,400 inc VAT.

Equipment would also need moving between the cabinets, the estimated cost of this would be £780 inc VAT. We could possibly move the equipment across ourselves to save costs.

Alternatively we could get a new cabinet to site next to our existing one. The approximate cost for this would be £1020 inc VAT.

## Extra Camera

To provide better results a second camera would be recommended. We can then switch between different camera positions, for example when a reading is happening we can have one pointing at the pulpit where the preacher is and one at the lectern. While it would be possible to move one camera doing so smoothly would take considerable practice. Having 2 cameras means you can set the position of the second camera before switching to it.

The extra camera would be £1984.80 inc VAT

One controller can control both cameras, however if we wanted to simplify the operation further we could have separate controllers for each camera, this would cost an additional £642 in VAT.

## Laptop

It would be useful to have a separate laptop for streaming. This would be used to manage any settings on the streaming website and play PowerPoints, videos, music etc specifically for the stream (e.g. holding slides). Without a separate laptop the current laptop in the AV cabinet would need to be used for managing the streaming website – this is completely possible but not the most convenient setup.

A suitable laptop could cost around £529 inc VAT

## Total Costs:

Recommended: <ul style="list-style-type: none"><li>- 2 cameras (single controller)</li><li>- Replace existing cabinet</li><li>- Transfer equipment ourselves</li><li>- Dedicated streaming laptop</li></ul>	£8927.80
Minimal: <ul style="list-style-type: none"><li>- Single camera</li><li>- Separate desk</li><li>- No laptop</li></ul>	£5034.00
Everything: <ul style="list-style-type: none"><li>- 2 cameras (separate controllers)</li><li>- Replace existing cabinet</li><li>- AudioWorks transfer equipment</li><li>- Dedicated streaming laptop</li></ul>	£10,349.80

## Potential Future Costs

Initially we would use YouTube for streaming which is free to use, however there are some restrictions over what music can be used under the YouTube licensing. Should this prove too restrictive we may need to consider using a separate streaming service. Based on our current YouTube statistics this would cost about £40 per month, plus we would need a PRS LOML license which is £175.20 per year.

The current laptop in the AV system is quite old and will need replacing in the not too distant future (6 – 18 months?) regardless of whether we get a separate streaming laptop. The cost of replacing this would be around the same as the streaming laptop.