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Monday, November 9, 2020

Dear Donald,

## Re: St Peter & St Paul, Abington – Streaming system & Audio Upgrade

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Further to my visit to the church last week, please see the information and quotations as requested.

1. Streaming System
2. Upgrade of Audio System
3. Addition of chor microphone

### 1. Streaming System

2 x PTZ (Pan/Tilt/Zoom) cameras with 10x optical zoom and 1080P video output will be mounted on the front of the gallery. From these locations, there is a good view of all locations of the church – to site the cameras in any other location would compromise the performance of the streaming system.

The cameras will be controlled with a mini keypad controller. Up to 99 presets can be programmed to each camera for quick recall of scenes.

Two cameras provide a far better viewing experience for the people at home. Camera A can be live while camera B moves into position. This prevents the viewer from seeing the image pan/tilt/zoom & focus into position.

An ATEM Mini Pro four channel video switch will be installed on the gallery to switch between the 2 cameras and the PC input. The ATEM mini Pro includes an integral H.264 video encoder for direct streaming to sharing platforms such as YouTube, Facebook, Vimeo etc.

By using a Video switcher, the streaming system is simple to use without the need for a laptop for simple services when the projector is not in use.

An Audio signal will be routed from your audio mixer to the video mixer to provide clean audio for streaming.

Qty	Item	Unit	Goods	VAT
2	PTZM400B camera 10X zoom	299.00	598.00	119.60
2	Camera mount	26.00	52.00	10.40
1	PTZ705 mini camera controller	74.00	74.00	14.80
2	TVI-HDMI convertor	89.00	178.00	35.60
20	Metres 4 core cable	0.57	11.40	2.28
20	Metres RG59 cable	0.80	16.00	3.20
30	Metres stereo audio cable	1.22	36.60	7.32
1	ATEM mini Pro video switcher with encoder	535.00	535.00	107.00
1	10" LCD monitor	143.75	143.75	28.75
1	8 way mains block with surge protection	26.30	26.30	5.26
30	Metres CAT 6 cable to router	0.57	17.10	3.42
1	Installation	655.00	655.00	131.00
		Goods/services	2343.15	
		VAT	468.63	468.63
		<b>Total £</b>	<b>2811.78</b>	

## 2. Upgrade of Audio System

The present audio system is of analogue design in a locked cabinet. To make adjustments to the system, an operator must open the cabinet and rotate the control at the front of the church.

By upgrading the audio control to a digital system, you will benefit from the following advantages-

Wireless control of mic & line levels using an iPad from anywhere in the church.

Preset "scenes" for different services or events.

Automatic microphone mixing with compressors and gates on each channel to provide better quality of sound

Basic, Standard & Admin user access levels

Qty	Item	Unit	Goods	VAT
1	Allen & Heath QU-PAC compact digital mixer	1124.17	1124.17	224.83
1	TP link wireless router/access point	32.00	32.00	6.40
1	Apple iPad 32Gb wifi	274.17	274.17	54.83
1	Stereo line input socket installed in gallery	54.00	54.00	10.80
1	Installation, programming, setup	345.00	345.00	69.00
		Goods/services	1829.34	
		VAT	365.87	365.87
		<b>Total £</b>	<b>2195.21</b>	

### *AV operating desk*

A surface will be required in the gallery for operating the Audio Visual system. I recommend that you employ a local craftsman to construct this.

### *EasyWorship*

You may wish to purchase EasyWorship display software for the display of songs, video, images, scripture and liturgy etc.

Annual licence for congregation size upto 99 - £130 inc VAT

Annual licence for congregation size upto 199 - £152 inc VAT

### *3. Choir microphone*

I recommend that a single ceiling hung microphone is installed in the chancel. This will pickup the choir to improve the balance of voices and the organ.

Qty	Item	Unit	Goods	VAT
1	U853R Cardioid condenser hanging microphone	215.63	215.63	43.13
20	Metres baanced audio cable	1.22	24.40	4.88
1	Installation	180.00	180.00	36.00
		Goods/services	420.03	
		VAT	84.01	84.01
		<b>Total £</b>	<b>504.04</b>	

### *Training*

We never leave an installation without providing basic training. However, if you would prefer a more detailed training session, or just more time to get to grips with your new system, then we offer a 2 hour training session at £120 + VAT

### *Installation*

Our team of skilled technicians will install, set up and demonstrate the whole system; Hilltop Audio Visual Ltd do not use sub-contractors.

The work will be carried out with respect for the building and users.

Every effort will be made to produce a discreet installation with minimal impact on the fabric of the building.

Training will be provided on completion of the installation.

### *Conditions*

The quotation is fixed and valid for 6 months subject to continued availability of the exact equipment specified. It may be necessary to supply alternative equipment to the same specification but which is current at the time of ordering. This could result in some adjustment to the quotation.

Installations are carried out in strict rotation from date of order.

Duration of installation is not more than 3 days.

All equipment has a manufacturers warranty of 12 months.

Installation carries an extended warranty is for 3 years.

A 30 day invoice is issued after installation.

Payment beyond 30 days will invalidate the extended 3 year installation warranty.

Safety – The church should be unoccupied and closed to the public on the days booked for installation. If this is not possible, we request that a representative of the church to advise visitors and assist with signage and safe areas would be in attendance at all times.

Please contact me either at the office on 0115 9395 995 or my mobile 07976 946728 if you have any questions or require any further information.

Yours sincerely

A stylized, handwritten signature in black ink, appearing to read 'Anthony Wright'.

Anthony Wright



Ceiling hung microphone for choir  
Dimensions 34 x 12mm

Dotted line indicates cable route.



Locations of PTZ cameras – Black  
Dimensions - 218 x 199 x 136mm



Cables and fixings to be made onto horizontal rail where the lighting is fixed, so as not to make holes in the gallery face.