



## Technical Specifications • Main Hall

### PA SYSTEM

The Main Hall features an **8 speaker PA system**.

*4 speakers operate at ground level and 4 operate at balcony level. They can be controlled individually / by zone. The PA system has been phase aligned and optimised using acoustic analysis software to ensure that the audio is clear and even across the hall.*

#### PA System equipment list:

- 4x Noise Control Audio - Aysm2s2 full range speakers
- 4x Noise Control Audio - CX8 full range speakers
- 8x Power-drive tilt speaker brackets
- 1x Noise Control Audio - FF408 loudspeaker management system
- 2x Noise Control Audio - FFA 4004 amplifier (1000W @ 2 ohms)

### AUDIO CONTROL

#### Option 1: On stage audio control

- 1x Soundcraft EMP12 audio mixer (12x mono + 2x stereo channels, 2x aux)
- 1x 31 bands LA EQ graphic EQ • 1x Tascam professional CD player

#### Option 2: FOH audio control at the back of the room

- 1x Roland M300 digital mixing desk • 1x Tascam professional CD player
- 2x Tascam solid-state recorders (main + back up, records to USB, CF & SD flash cards)

#### Audio playback

Q-Lab software - installed on a Conway Hall laptop

### MICROPHONES

#### Radio microphones installed in FOH rack

- 2x Sennheiser EW152 G3 headset radio microphone system (licensed frequency)
- 2x Countryman E6 headset microphone (option for above system)
- 2x Sennheiser EW100 G3 handheld radio microphone system (licensed frequencies)
- 1x Sennheiser Active antenna system with passive paddle antenna

#### Other radio microphones • All radio microphones are licensed with OFCOM

- 6x Sennheiser EW152 G3 headset radio microphone system (licensed frequency)
- 6x Countryman E6 headset microphone (option for above system)
- 2x Sennheiser EW100 G3 handheld radio microphone system (licensed frequencies)
- 2x Sennheiser EW100 G3 handheld radio microphone system (channel 69)

#### Condenser microphones

- 2x AKG CS1000 microphone



### Lectern & table microphones

- 2x Audio Technica ES915 19" lectern microphone + clip
- 4x Audio Technica ES916 6" table microphone + K&M table stand
- 2x Beyer dynamic ES615 8" table microphone + table stand

### DI BOXES

- 2x Radial AV2 stereo passive DI box

### INDUCTION LOOP

- 1x Induction loop master station (with headset to test system)

### MULTICORE, TIE LINES & STAGE BOXES

- 1x Roland S-1608 digital stage box
- 1x RSS digital multicore system with back up lines (from FOH to stage)
- 1x XLR tie line (from FOH to stage) • 1x XLR tie line (from stage to FOH)
- 1x DMX line (from FOH to stage) • 3x XLR tie line (across from stage right to left)

### PROJECTION

#### Main projector

- 1x Panasonic PT-EZ580EJ - 6000 Lumen WUXGA - full HD (1600x1200 4:3 resolution)

#### Back-up projector (in case of main projector failure)

- 1x Panasonic PT-EW600 - 6000 Lumen XGA (downscales to 1024x768 resolution)

#### Lens

- 2x Long throw projection lens - Panasonic ELT20 2.8 - 4.6:1 ratio

#### Screen

- 1x 3.2m x 2.55m 4:3 projection screen - motorised and mounted on the back wall

### VIDEO SWITCHING

- 2x Kramer VP100 video switcher, controlled from the stage and FOH (4x VGA inputs and 2x HDMI inputs, fade through black)

### VIDEO INPUTS & CABLING • All AV inputs are sent via HDMI/DVI-D over CAT6 to switchers & projector

Stage left: 3x VGA input • 1x HDMI input

Stage right: 1x VGA input • 1x HDMI input

Control: 4x VGA input • 1x HDMI input • 1x VGA output • 1x HDMI output

### LAPTOPS

- 2x PC laptops with HDMI and VGA outputs • 1x MacBook Air
- 1x 13" MacBook Pro (with Q-Lab video software installed)



## VIDEO RECORDING

- 4x Sony EVI-H100 PTZ cameras (full HD) • 1x Controller for PTZ cameras
- 1x USB3 DVI capture card • 1x Kramer VGA - DVI scaler
- 1x Black Magic quad link capture card (4x HD-SDI inputs)
- 1x Black Magic output card (1x HDMI + 1x HD-SDI outputs) • 1x USB 2-in 2-out soundcard
- 1x Core i7 iMac running Wirecast 5 software • 1x 4TB Thunderbolt hard drive

## VIDEO CONFERENCING • System utilises the venue's PTZ cameras (see above)

- 1x 13" MacBook Pro (running Google Hangouts)
- 1x USB3 HDMI capture card (captures the mixed output from PTZ cameras)

## LIGHTING

### Fixtures

- 12x PAR64 wash lights - CP88 500W medium flood lamps  
(3 per side at back of hall • 3 per side in front of stage)
- 4x Source 4 zoom 15-30 degree - 750W profile (2 per side - high level lighting from rear of balcony)
- 2x Source 4 profile 50 degree - 575W profile (1 per side at side of stage)
- 2x Source 4 profile 26 degree - 575W profile (1 per side at rear of stage)
- 4x Source 4 profile 36 degree - 575W profile (2 per side at side of stage)
- 4x RGBW high powered LED PAR - 3 DMX channels, RGB (2 per side at front of stage)

### Dimmers & buffer • There are 4x spare dimmer channels for adding extra lights

- 2x Zero88 6 channel dimmer (fed from a 1P32amp supply per dimmer)
- 2x Zero88 Alpha Pack 3 channel dimmer (13amp supply per dimmer)
- 1x DMX buffer

### Lighting control (stage)

- 1x Showtec Showmaster 24 channel DMX lighting desk

### Lighting control (wireless)

- 1x Zero 88 Juggler 24 channel DMX lighting desk
- 1x Wireless DMX transmitter and receiver • 1x DMX merge unit

*The lighting control can be moved anywhere in the venue, by prior arrangement, allowing the flexibility of controlling lighting from the balcony, stage or the back of the room.*

## STAGING

The stage has a usable area of **8.94m x 3.79m**. *On-stage risers are available by prior arrangement.*

## CONTROL HIDES FOR FOH • Oak veneer hides are available to mask the FOH control area

- 1x 5ft x 4ft • 1x 4ft x 4ft • 1x 4ft x 4ft returns

## CONTACT FOR FURTHER INFORMATION:

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