



CADOGAN HALL

Technical specifications (as at 06/02/18)

Please note: all equipment is subject to availability.

Stage Management

An AMX control system is used to coordinate lighting, sound and stage management operations on a series of touch screens. These incorporate a cue light system and remote control of a number of auditorium features including the projection screen, house lights, curtains and backstage working lights.

A Tecpro communications system is fitted with connection points around the Hall and in backstage areas.

A show relay system is provided which includes audio and video from four colour cameras. These may be routed all over the building as required. Backstage calls may be made from the side of the stage and from stage door.

Stage

13m wide
10m deep

The stage is level (i.e. no rake) and consists of oak effect panels which may be removed to provide access to power and AV system connections. A floor plan is available upon request.

A passenger lift rises from Stage Door to stage level. Its safe working load is 1000kg (evenly distributed) and its dimensions are as follows:

Entrance:
1m wide
2m high

Internal:
155cm deep
127cm wide
127cm high

A goods lift with a safe working load of 500kg (evenly distributed) is fitted in the stage to allow access to a storage area below. This cannot be used during performances and does not provide direct access to the street. Its dimensions are as follows.

1.7m wide
2.8m deep
2.1m high

A modular choir riser system is provided that is designed to be built in three tiers (200mm, 400mm and 600mm tall) 8.4m long for up to 54 people. However, this system can be used in a number of different configurations using the sections as follows:

3 x 2.4m x 1m
6 x 2m x 1m
6 x 1m x 1m

We have sufficient legs to put the whole system at the 400mm height if required.

100 x black armless orchestral chairs
80 x music stands with oak desks
12 x metal fold up music stands
Black harlequin floor
Oak lectern with microphones and AV equipment fitted
Steinway model D concert grand piano (weighing 480kg, serial number: 565412)
20 x stage weights

A 63A three phase Ceeform socket is provided USL and USR

Performances with more than 40 people on stage will affect the Halls seating capacity pro rata.

Sound System

The front of house PA system consists of the following speakers:

- 2 x flown seven segment M1D line arrays driven in stereo
- 2 x UPJ fills behind the main system
- 2 x UPM fills for the ends of the balcony
- 9 x UPM delays under the balcony

Speakers on the stage:

- 2 x CQ1 speakers
 - 2 x USW sub base speakers
 - 2 x UPM front fills
- 9 x additional UPM's around the Hall provide a surround sound effect

Front of House equipment

Yamaha QL1 permanently installed in the control position at the back of the gallery.

A flight cased **Yamaha CL3** is available for use at the back of the stalls (some seats will be lost).

One **RIO3224-D** and one **RIO1608-D** permanently mounted USL giving a total of 48 physical inputs and 32 physical outputs.

One additional **RIO1608-D** that can be positioned USL or at the back of the stalls with the sound desk.

Tascam CD-RW2000 CD Recorder

Denon DN-D4500 Twin deck CD player

8 x **Sennheiser EW500 G3** radio microphone receivers (tuned to channel 54). These are linked to a PC running management and diagnostic software.

Microphones

- 1 x Audix D6
- 1 x Audix i5
- 2 x Audix D2
- 1 x Audix D4
- 6 x Shure SM58
- 2 x Shure SM58S
- 4 x Shure SM57
- 4 x AKG 391 microphone bodies
- 4 x AKG CK91 with pop shields
- 2 x AKG 747
- 2 x AKG 414
- 1 x ElectroVoice RE20
- 1 x Beyerdynamic M88 TG
- 8 x Sennheiser SKM handheld radio transmitters with E965 capsules
- 8 x Sennheiser SK500 belt pack radio transmitters
- 7 x DPA 4061 lapel microphones (black) with tie clips (Dmm0004) and string instrument clips (MH56001)
- 2 x DPA heavy duty omni lapel microphones (black) (SCO60B00-H)
- 8 x DPA to XLR adaptors for the above
- 2 x DPA 4066 headband microphones (black)
- 4 x DPA d:fine headband microphones with directional capsules (beige)
- 2 x DPA d:fine headband microphones with omnidirectional capsules (beige)
- 8 x Klark Teknik DN100 active DI boxes
- 2 x Crown 300AL (fitted to lectern)
- 1 x RS Components gooseneck microphone (sound console talkback)

Microphone stands

- 30 x Tall boom stands (tripod)
- 2 x Straight pump stands
- 7 x Small boom stands (tripod)
- 4 x Weighted round bases
- 2 x Small table stands for AKG 747

Monitor speakers

- 6 x Meyer UM-100P powered stage monitor with custom cable looms
- 1 x Meyer UPM speaker
- 1 x Yamaha MS101 Mk.2 (this can be mounted on a microphone stand)

Communications

- 10 x Tecpro Communication single channel belt packs
- 10 x Tecpro single muff headsets
- 2 x Large flasher boxes for Tecpro system
- 1 x AKG K271 headphones

The Hall is fitted with a Sennheiser infrared amplification system for the hearing impaired. Headsets are available from Box Office upon request.

Conference Equipment

We can supply a desktop data projector, screen and laptop.

In addition to this we can supply a flight cased audio rack containing the following equipment:

- 1 x Soundcraft Spirit E12 mixing console
- 1 x Behringer Ultragraph Pro FBQ3102 graphic equalizer
- 1 x Nexo PS 8 Amplifier
- 2 x Nexo PS 8 loudspeakers with stands
- 1 x EMO power distribution board
- 4 x 10m Speakon to Speakon cable
- 2 x 25m Speakon to Speakon cable
- 4 x 4 pole Speakon couplers
- 1 x HHB "Burnit" CDR-830 CD recorder
- 2 x Trantec S4.4 hand held microphones with boom stands

Lighting System

The lighting system is controllable via the Avolites Sapphire Touch lighting console in the Control Booth

The house truss system is a bespoke design for the Hall. Any trim height from stage level to the maximum out dead at the ceiling can be used. The standard rig incorporates an array of open white generic lighting to suit orchestras, and moving lights which may be used when required by other shows.

The house lighting rig requires 4 DMX universes for operation.

PLEASE NOTE: The standard open white generic focus is fixed. It cannot be re-focused or coloured. Additional items cannot be added to the truss.

Fixtures on the truss

- 8 x ROBE DL7S spots
- 9 x JB Lighting A12 LED washlights
- 40 x Source four Par CP62 (OPEN WHITE WASH ONLY)
- 12 x Source four 15-30 profiles (OPEN WHITE WASH ONLY)

Fixtures in roof positions

- 8 x Clay Paky Stage Profile Plus SV
- 2 x ROBE DL7S spots

Additional equipment

- 8 x Par 64 CP62 floor cans in black
- 1 x Unique 2.1 hazer
- 1 x Antari HZ-500 haze machine

Dimming

- 24 x 10A dimmer channels located each side of the stage. Available on Socapex outputs and 16A (6 x 16A and 3 x Socapex per side)
- 12 x 10A dimmer channels on socapex each side, located in the Gallery seating

Follow spots

- 2 x Robert Juliat Ivanhoe

Miscellaneous

16A TRS cabling and adaptors
Various other power adaptors e.g. 13A to 15A etc.

We hold a basic range of gel and can source more if you require it.

Video equipment

The Hall is fitted with a 10mX5.75m front projection screen which can be rolled in and out via the AMX system. Two automated black legs may also be rolled in to convert the screen to 4:3 aspect ratio. The throw from the installed data projector to the screen is approximately 30m.

The in-house projector is a Christie HD14K-M with a 2.8-4.55X+/2.6-4.1 HD lens.