



Union Theatre Technical Specifications

2024

The Union Theatre is a proscenium arch theatre with a fly tower and orchestra pit, house curtain, cyclorama, state-of-the-art sound equipment and LED lighting rig.

The theatre is equipped with standard masking curtains including legs, borders, two sets of tabs, panorama masking, as well as a false proscenium (a hard border and legs that can be used to shrink the proscenium opening).

The Union Theatre is managed by the University of Melbourne. Union House Theatre supports Student Theatre Groups during semesters to stage productions in this theatre. This document outlines some of the key technical information for the venue. For detailed technical information, please contact: production@union.unimelb.edu.au

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Stage

Stage Dimensions

Proscenium

Width	13000mm (False Pro Variable)
Height	7000mm (False Pro Variable)

Setting Line

Upstage edge of Proscenium

Distance From (*SL = Setting Line, CL = Centre Line*)

SL to DS edge of apron	1435mm
SL to DS edge of Orchestra Lift/Pit	Centre 2450mm, Edge 2050mm
SL to first fly line	200mm
SL to last upstage fly line	11800mm
SL to rear wall	12150mm
CL to OP wall (or obstruction)	10700mm
CL to PS wall (or obstruction)	11900mm
Stage to underside of grid	17500mm

Orchestra Pit

The Orchestra Pit is a mechanised forestage platform. It has three standard positions at Stage level, Auditorium level (900mm below stage), or Pit level (2615mm below stage). Other positions may be set in consultation with UHT Production. When at Auditorium level, seating can be added to increase audience capacity. When at Pit level, a prop safety net is put in place over the pit to protect musicians from falling props. This net is not rated to catch a person or large set item.

Dimensions of the orchestra pit:	11175mm x 2450mm Centre, 2050mm Edge
Orchestra pit maximum capacity:	20 persons

Auditorium

Auditorium consists of stalls as well as a balcony level. Aisle end seats in F row of the stalls and C row of the balcony are individually removable for wheelchair access.

Seating capacity with additional Orchestra lift/pit seating installed	398
Seating capacity without Orchestra lift/pit seating installed	361

Lighting

The theatre has four lighting (LX) bars over stage, two front of house (FOH) bridge lighting bars, and 'box boom' positions to either side of the forestage. There are two vertical lighting 'ladders' on either side of the stage at each wing. There is a follow spot room over the auditorium with two follow spot fixtures.

Every light in the venue is an LED fixture, with many capable of changing colour without the need for lighting gels.

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For details of the standard rig configuration for Student Theatre Productions, reach out to UHT Production.

Control

Lighting desk **ETC IonXe** – Contact UHT Production for current Firmware
 Control channels **2,048**
 Control positions Standard position: **Control Room**
 Optional Plotting Position: **Production desk in Stalls**

Standard Rig Available Lighting Fixtures

Standard rig cannot be moved or refocused, except focusing of designated specials

Profile

Make	Model	Angle	Detail / Accessories	Watts	Quantity	Purpose
ETC	Source 4 LED S3 Lustr Fixed Beam	19°		305W	5	DS Stage wash
ETC	Source 4 LED S3 Lustr Fixed Beam	26°		305W	5	DS Stage wash
ETC	Source 4 LED S3 Lustr Zoom	25°/50°		305W	4	Stage fill
Chauvet	Ovation E-260 WW Fixed Beam	19°		230W	5	DS Stage wash
Chauvet	Ovation E-260 WW Fixed Beam	26°		230W	5	DS Stage wash
Chauvet	Ovation E-260 WW Zoom	15°/30°	Iris	230W	6	FOH Specials
Chauvet	Ovation E-260 WW Zoom	25°/50°	12x specials 9 Iris; 10x "B" Size Gobo Holders w/ Rosco 77805 Breakup as Std	230W	22	12x On-stage Specials; 10x Gobo wash/in fill
Used for Student Theatre Group Productions only:						
ETC	Source 4 LED Lustr2 Fixed Beam	36°		171W	5	Mid-stage wash

Fresnel

Make	Model	Angle	Detail / Accessories	Watts	Quantity	Purpose
Chauvet	Ovation F-265 WW	16°/68°	(28) Barndoors	230W	20	Warm White Stage wash

Multi Par

Make	Model	Angle	Detail / Accessories	Watts	Quantity	Purpose
Varilite	VL800	6°/40°	7x Quad Chip RGBW	210W	40	Colour-changing back and side light

Cyc

Make	Model	Angle	Detail / Accessories	Watts	Quantity	Purpose
ETC	ColorSource Cyc			133W	7	Colour-changing Cyc wash

Additional Lighting and Accessories

Item	Make	Model	Detail / Accessories	Watts	Quantity	Purpose
Follow Spot	RobertJuliet	OZ LED	6-Colour Magazine	600W	2	Follow spot
Hazer	Unique	Unique2	DMX activated	N/A	2	Haze

Spare Lighting Stock

Union House Theatre has a small stock of additional lighting fixtures for use in Student Theatre Productions, subject to availability. Contact UHT Production for details and to discuss your requirements.

Audio

The Union Theatre’s in-house audio system includes a state-of-the-art mixing console and line-array PA system, as well as variable monitor configuration and ample on-stage patching for most audio needs.

Control

Audio Console

Digico Quantum 225

Contact UHT Production for current Firmware details

Control Positions

Centre of Auditorium Balcony

Permanent Position

Control Channels

Configurable up to 72 Input Channels and 36 Auxiliary or Sub-Group Channels

Patching

Onstage rack: **48 XLR input / 16 XLR output**

Local ins: **8 XLR input / 8 XLR output**

Additional i/o

Dante Card available

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Speakers

Make	Model	Qty	Purpose	Notes
FOH Speakers				
d&b Audiotechnik	V8 Loudspeaker	10	Main L/R Speaker hang	Permanent position
d&b Audiotechnik	V12 Loudspeaker	2	Main L/R Speaker hang	Permanent position
d&b Audiotechnik	V-SUB Loudspeaker	4	Subwoofer	Permanent position
d&b Audiotechnik	5S Loudspeaker	6	Front fill (stage thrust)	Permanent position
d&b Audiotechnik	5S Loudspeaker	6	Front fill (pit down)	Permanent position
Foldback Speakers				
d&b Audiotechnik	MAX2 Stage Monitor	6	Foldback	Flexible position
d&b Audiotechnik	B6-SUB	1	Foldback Subwoofer	Flexible position

Additional Speakers

Union House Theatre has a small stock of additional speakers to suit different applications for use in Student Theatre Productions, subject to availability. Contact UHT Production for details and to discuss your requirements.

Microphones

The Union and Guild Theatres have a shared stock of microphones, stands, and audio cabling for use between the two venues subject to availability.

Make	Model	Qty	Purpose
Shure	Beta SM58a	12	Wired dynamic microphone suited to vocals
Shure	Beta SM57a	8	Wired dynamic microphone suited to some instruments
Rode	NT55	10	Wired condenser microphone suited to some instruments
Rode	NT55MP Matched Pair	1	Stereo matched pair of wired condenser microphones suited to some instruments
Sennheiser	e901	6	Plate microphone
Shure	PGA 7 Piece Drum Mic Kit		Full drum kit microphone set including mics for kick; snare; 2x toms; 2x overheads
BSS	AR133	8	DI for plugging instruments directly in
Rode	NTG 4	4	Wired shotgun microphone suited to micing wide areas

Additional Microphones

Union House Theatre has a small stock of additional microphones to suit different applications for use in Student Theatre Productions, including a complement of wireless headset and handheld microphones, that may be available. Contact UHT Production for details and to discuss your requirements.

Playback

Item	Device	License	Qty	Notes
Qlab 5	Mac Mini	Full A/V license installed	1	Standard position next to audio console

Audio Visual

Projector

Type	Model	Detail	Position
Panasonic 12K Laser Projector	PT-RZ12K WUXGA	12,000 Lumens - Laser	Permanently mounted in bio box

There are two standard options for projection surfaces:

- Cyclorama upstage (limited coverage)
- Projection screen downstage

Additional Projectors

Union House Theatre has some additional projection devices to suit different applications for use in Student Theatre Productions, subject to availability. Contact UHT Production for details and to discuss your requirements.

Screens

There is a small quantity of portable television screens available for use for captioning or other applications. Contact UHT to discuss your requirements.

Playback

Item	Device	License	Qty	Notes
Qlab 5	Mac Mini	Full A/V license installed	1	Standard position next to audio console

Communications

Comms

- 1x Master Unit (located in stage manager's desk)
- 4x wired comms units (positions variable)
- 3x wireless comms units

Paging / Show Relay

Paging to the dressing rooms is available through the stage manager's desk. Show relay can be distributed to different zones backstage as desired.

A stage video feed is visible at the stage manager's desk and in the dressing rooms & green room.

Venue General

Dressing Rooms

There are four dressing rooms shared across the Union & Guild Theatres with a combined capacity of 42 seats including toilets and showers in each room. Dressing room availability will depend on activity across both venues and allocation of these rooms will be advised.

An additional Green Room rehearsal room is available directly behind the Union stage for use by the occupant of the theatre.