

**SURREY CIVIC**

**T H E A T R E S**

**Surrey Civic Theatres  
Main Stage at Surrey Arts Centre  
Technical Information**

Current as of February 2019



## Main Stage at Surrey Arts Centre is a 402 seat proscenium theatre

All dimensions are in mm (imperial)

Seating	Full rake – no balcony 402 permanent seats 3 wheel chair spaces
Green Room	Located immediately behind stage 35 - person capacity 11582 x 6706 (38' x 22') Maple, sprung Sound attenuated walls Sink and counter Is used as crossover behind plaster cyc
Stage Floor	Maple sprung, apron over orchestra pit not sprung No stage traps or elevators.

**Screwing and drilling into stage floor is not permitted.**

### Dimensions

#### Stage

Proscenium opening (WxH):	10973 x 4826	(36' x 15' 10")
Proscenium line to cyclorama:	9068	(29' 9")
Proscenium line to front of apron at center:	3099	(10' 2")
Proscenium line to front of apron at side:	1499	(4' 11")
Center stage to stage left wall:	8280	(27' 2")
Center stage to stage right wall:	15164	(49' 9")
Free working height, stage left wing:	5842	(19' 2")
Free working height, stage right wing:	4953	(16' 3")
Stage floor to underside of grid:	11887	(39')

#### Orchestra Pit

11887 (39') x 3048 (10') at center stage, curving to 1829 (6') at stage sides.  
Pit floor is 1829 (6') below stage level and 914 (3') below audience level.  
Capacity is approximately 20.  
Apron is manually removable to expose orchestra pit.  
Apron may be manually lowered to audience level to accommodate  
35 upholstered chairs.

## Rigging

Single purchase counter-weight fly system. Maximum pipe height is 11659 (38' 3")  
 Electrics are counterweighted and operated by chain motors. Maximum pipe height 7315 (24')  
 Fly Gallery operating position – 5994 (19' 8") above stage left  
 Pipe length – 14199 (46' 7")  
 Center line to end of pipe - SL 6883 (22' 7") - SR 2315 (24')  
 Capacity of flying pipes is 317.5 Kg (700 lbs.) distributed 158.8 Kg (350 lbs.) spot

### Rigging Positions

	Projection screen	-76	(-0' 3")	
	Proscenium Line	0	(0' 0")	
1	Tormentor	470	(1' 6.5")	Counterweight
2	Main Curtain	600	(1' 11.5")	Counterweight
3	1st Border	830	(2' 8.75")	Counterweight
4	1st Electric	1130	(3' 8.5")	Winch
5	1st Legs	1690	(5' 6.5")	Counterweight
6	Free Pipe	1990	(6' 6.5")	Counterweight
7	Free Pipe	2250	(7' 4.5")	Counterweight
8	2nd Border	2480	(8' 1.5")	Counterweight
9	2nd Legs	2820	(9' 3")	Counterweight
10	2nd Electric	3370	(11' .75")	Winch
11	Free Pipe	3590	(11' 9.5")	Counterweight
12	Free Pipe	3830	(12' 6.75")	Counterweight
13	1st Traveler	4130	(13' 6.5")	Counterweight
14	Free Pipe	4410	(14' 5.5")	Counterweight
15	3rd Border	4620	(15' 1.75")	Counterweight
16	Free Pipe	4940	(16' 2.5")	Counterweight
17	3rd Electric	5370	(17' 7.5")	Winch
18	3rd Legs	5890	(19' 4")	Counterweight
19	Free Pipe	6420	(21' .75")	Counterweight
20	4th Border	6620	(21' 8.75")	Counterweight
21	Free Pipe	6800	(22' 3.75")	Counterweight
22	4th Electric	7190	23' 7"	Winch
23	Free Pipe	7600	24' 11"	Counterweight
24	Free Pipe	7900	25' 11"	Counterweight
25	2nd Traveler	8200	26' 11"	Counterweight
26	Free Pipe	8510	27' 11"	Counterweight
	Cyclorama	9070	29' 9"	Plaster wall

## Masking

- 1 - Main Drape, grey velour IFR 14244 (46' 8") W x 5790 (19') H,  
Manual fly – electric travel
- 2 - Travelers, black synthetic duvetyn IFR 14244 (46' 8") W x 5790 (19') H,  
Manual travel
- 3 - Sets of Legs, black synthetic duvetyn, 2845 (9' 4") w x 5790 (19') H
- 4 - Borders, black synthetic duvetyn 14244 (46'8") W x 2134 (7') H
- 14 - Germans, black duvetyn 1220 (4') W x 5790 (19') H (7 per side on track)
- 1 - Scrim, black 12800 (42') W x 5486 (18') H
- 1 - Cyc cloth, white 12800 (42') W x 5486 (18') H

See rigging position chart for locations, the Main Drape, Travelers and Electrics are permanently hung in their positions

## Projection Screen

6350mm (250") 4:3 aspect ratio diagonal projection screen electrically operated  
76mm (3") down stage of proscenium

## Lighting

### Control

ETC GIO  
Protocols: Sacn to dimmers and ETC Net3 gateway output nodes  
DMX 512 output to architectural lighting

### Dimmer Racks

2 - ETC Sensor SR48 racks upgraded to CEM3 control electronics  
144 - 2.4 K ETC Sensor dimmers

### Non-Dims

4 @ 20 Amp 1 each in SL, SR, FOH catwalks and Pit

### Permanent Hanging Positions

3 - FOH pipes (catwalks)  
2 - House pockets  
4 - Electrics

### Circuits

All circuits are 20 amp twist lock (L5-20R) except as noted below

12 – 3rd FOH	19 - 2nd FOH	12 – 1st FOH
8 - House pockets	19 - 1st Electric	14 - 2nd Electric
9 - 3rd Electric	14 - 4th Electric	18 - Gallery catwalks
3 - SR proscenium	3 - SL proscenium	2 - Orchestra pit
12 – SR stage level (2 x 6 circuit Soca)		

## Lighting Instrument Schedule

Fixtures permanently assigned to Main Stage  
See shared equipment list for additional instruments

Quantity	Manufacturer	Model	Type	Lamp	Wattage
14	ETC	Source 4	19°	HPL	575
21	ETC	Source 4	26°	HPL	575
30	ETC	Source 4	36°	HPL	575
24	Strand	3380	6" Fresnel	BTR	1K
4	Strand	Patt 723	8" Fresnel	BTR	1K
6	ETC	ColorSource Cyc	Cyc Light	LED	

House lighting plot is available at <https://www.surrey.ca/culture-recreation/1629.aspx>

### Stage Power

Stage Right 200A 3ph 120/208V on Cam-Loc (Neutral/ground reversed)

50A 1ph 120/208V 14-50R (Stove Plug)

Loading Dock 50A 1ph 120/208V 14-50R (Stove Plug)

### Projection

Epson Z8000WU (H266A) w/ Long Lens

Located in booth. Additional projection equipment in shared equipment

## Audio System

### Console

APB Dynasonics Spectra 32 Ti  
32 mono, 4 stereo inputs x 8 VCA x LCRM outputs  
10 monitor and/or effects sends  
4 matrix outputs

### Equalization

1 - Ashley GQX3101 (cluster)  
1 - Ashley GQX3102 (Mains)  
3 - Ashley GQX3102 (Monitors / Effects)

### Effects / Processing

1 - Yamaha SPX 2000  
1 - Yamaha SPX 990  
2 - dBX 1066 stereo compressors  
3 - dBX 166XL stereo compressors

### Playback

1 - Marantz PMD351 CD / Cassette Combo  
1 - Denon DN-D4500 dual CD player  
2 - Sony MDS-E12 Mini Disk Recorder  
1 - Mac Mini running Q-Lab connected to an Echo Audiobox 12,  
12 in 12 out firewire interface

### House Speakers

Mains - Meyer Lina Line Array, 6 units each SL and SR  
Cluster / Center fill - 1 Meyer UPQ-1P  
Subs - Meyer 900-LFC, 3 units each SL and SR configured as gradient arrays  
Processing - Meyer Galileo Galaxy

### Patching

432 point - tip, ring, sleeve bantam patch bay  
Accessing 45 microphone lines on stage and all equipment inputs - outputs

### Communications

Clear-com - 2 channel system with 7 stations with access at 17 locations throughout  
Main Stage

### Hearing Assist

Sennheiser Infrared System with 10 headsets

For microphones, monitor speakers, and additional amplification see Shared Equipment.

## Shared Equipment

The following equipment is shared between the Main Stage and Studio Theatre.  
Availability of any of the following cannot be guaranteed without written confirmation

### Audio

#### Microphones

2 - AKG C420	Wired headset
1 - AKG C535EB	
4 - AKG D320B	
4 - Clock Audio C35E	Hanging cardioid condenser
1 - EV PL9	Omni dynamic
6 - Sennheiser MD421U	
6 - Shure 55SH	
1 - Shure Beta 52	
6 - Shure Beta 57	
2 - Shure Beta 57a	
12 - Shure Beta 58	
4 - Shure Beta 58a	
2 - Shure SM 58S	
2 - Shure MX418/s	Podium cardioid condenser
2 - Shure SM 11	Miniature omni dynamic
2 - Shure SM57	
2 - AKG 451 E Preamps	
3 - AKG 451 EB Preamps	
3 - AKG CK1 Capsules	for AKG 451 preamp
5 - AKG CK8 Capsules	for AKG 451 preamp
6 - AKG 460 B Preamps	
6 - AKG CK61 ULS Capsule	for AKG 460 preamp
6 - AKG CK68 ULS Capsule	for AKG 460 preamp
2 - Radioshack PZM	
3 - Crown PCC 160	
4 - Superlux E308	Hanging Cardioid condenser
1 - AKG D112 MKII	
2 - Audio Technica ES915	Podium mini shotgun condenser

#### DI boxes

6 - BSS AR133
4 - Radial Pro AV-2
4 - Radial JDI
1 - Rodam Passive
1 - Boss Di-1
1 - Digiflex DPDI
2 - mono house built passive
1 - Stereo house built passive

## Audio continued

### Wireless

4 – Sennhieser Presentation Set (Body pack with Lavalier, speaking voice quality)

Receiver - EM1-B  
Transmitter – SK2-B  
Microphone – ME2-2

2 – Samson Airline 77 (All in one headset/mic)

2 – Shure UHF series receivers each with 2 transmitters

- a) Body pack with Beta 54 headset mic
- b) Hand held with Shure Beta58 capsule

Each receiver is mounted in its own portable rack case

4 – Shure ULX series receivers with single transmitter

Hand held with Shure Beta58 capsule

These receivers are mounted in a single portable rack case

### Playback

2 - Technics 1700 reel-to-reel 1/4 track - 3 3/4, 7 1/2, 15 IPS

1 - Technics SL 1000 Turntable

### Monitors, Passive

2 - EV FM-1502 wedges

6 – EV FM-1202 wedges

2 - EV T-1221M wedges

2 - EV S-1202 cabinets

4 - EV SH-1512 cabinets

### Monitors, Bi-amped

6 - EAW MW12 Micro wedges,  
EAW UX 3600 processing QSC PL 325 and PL340 amps

### Additional amplification

4 – 2 channel QSC MX1500 amps

## **Projection**

### **Projectors**

Epson Power Lite Pro – G6770wv  
W/ Long, medium and short throw Lenses

### **Video Switching**

ATEM Television Studio  
2- HDMI scalers on inputs 1 & 2  
2 – VGA scalers on inputs 3 & 4

PureLink HX-4400S  
4x4 VGA & HDMI matrix switcher

### **Distribution**

2 sets – Kramer VGA over cat 5  
2 sets – HDMI over cat 6

### **Projection Screen**

Draper 9' x 12' rear projection screen

## Other Equipment

### Risers

Wenger Portamaster collapsible 4' x 8' platforms  
8 - 8" high  
6 - 16" high  
4 - 24" high  
4 - 32" high

### Pianos

1 - Yamaha C7-D grand  
1 - Yamaha U5 upright  
1 - Yamaha P200 electronic piano

All pianos regularly tuned to A440 standard

### Dance Floor

7 rolls Rosco Dance Floor (black / gray) 45' x 63"  
6 rolls Rosco Adagio (black) 45' x 59"

### Fog Machines

2 - MDG Mini Max fogger  
1 - Le Maître Radiance Hazer

### Lecterns

All have integral microphone mounts  
2 - Maple finished matching  
1 - Aluminum and acrylic  
1 - Black height adjustable

## Lighting

Lighting instruments not part of any house plot.

Quantity	Manufacturer	Model	Type	Lamp	Wattage
100	ETC	Source 4	Body only	HPL	575
20	ETC	S4 lens tube	19		
40	ETC	S4 lens tube	26		
20	ETC	S4 lens tube	36		
20	ETC	S4 lens tube	50		
2	Strand	3380	6" Fresnel	BTR	1K
16	Altman	1KAF	6" Fresnel	EGT	1K
6	ETC	ColorSource	Cyc light	LED	2K
2	Lycian	Midget 2K	Followspot	CYX	2K

## Shared Resources

The following support areas are shared between the Main Stage and Studio Theatre.

### Scene Shop

Information and availability upon request.

### Loading

- All level access with standard truck height loading dock into scene shop
- Driveway will accommodate 12000 (40') tractor-trailers
- Access to stage via an airlock with two sliding doors with a 2590 (8' 6") maximum W x 4420 (14' 6") H opening
- Access to Studio Theatre through an airlock with two sets of swinging doors with a 1575 (5' 2") W x 2920 (9' 7") H opening

### Dressing Rooms

- There are 7 dressing rooms
- All have make up mirrors and lights
- All (except dressing rooms 3 and 7) have washroom and shower facilities
- There is a central holding area adjacent to the dressing rooms with 2 sliding partitions that serve as a way to flexibly divide the dressing rooms between the two performance spaces
- These partitions allow any number between 3 and 7 dressing rooms to be assigned to the Main Stage with the remainder accessible to the Studio Theatre

#### Approximate Dressing Room Capacities

#1-	5
#2-	20
#3-	6
#4-	6
#5-	6
#6-	10
#7-	10

### Paging

Multi-zone system covering Audience / Backstage locations  
System also performs program sound and audience recall

### Staff

Full complement of qualified staff is available. Employees are members of Canadian Union of Public Employees Local 402