



---

# Royal Theatre

# Technical Information

---

## Table of Contents

General Information	page 2
Front of House	page 3
Stage	page 4
Stage Equipment	page 6
Orchestra and Related Equipment	page 7
Orchestra Pit	page 7
Loading Area	page 8
Wardrobe	page 8
Lighting	page 9
Sound	page 13
Projection	page 17
Dressing Rooms	page 18
Visiting Production, Union, and Miscellaneous	page 19

## General Information

The Royal Theatre opened in 1913 as a privately built and operated roadhouse. It has hosted many of the world's great performers on its stage, including Sarah Bernhardt, Carlos Montoya, Mikhail Baryshnikov and Luciano Pavarotti. The original foyer was augmented by lobby extensions completed in 1991, while the auditorium retains its original Rococo/Renaissance Revival style decor. Extensive technical upgrades, restoration work to the auditorium, and refurbishment of the dressing rooms took place in 2002, along with the installation of new seating. A complete restoration of the façade, which earned awards from the Hallmark Society and the Heritage Canada Foundation, was completed in 2006.

“The Royal” is home to the Victoria Symphony Orchestra, Pacific Opera Victoria, and the Dance Victoria series, as well as being Vancouver Island's premiere venue for touring attractions.

The Royal Theatre was designated a site of national historic significance in 1987, and received its commemorative plaque from the Historic Sites and Monuments Board of Canada in 1990.

### Contact information:

Administration:	(250) 361-0800	Toll-free: 1-800-361-0800
Fax line:	(250) 361-0805	
Box office:	(250) 386-6121	Toll-free: 1-888-717-6121
Website:	<a href="http://www.rmts.bc.ca/">http://www.rmts.bc.ca/</a>	
E-mail address:	<a href="mailto:marketing@rmts.bc.ca">marketing@rmts.bc.ca</a>	
Mailing address:	Royal and McPherson Theatres Society P.O. Box 1000, Victoria BC V8W 2S6	
Street address:	805 Broughton St. Victoria BC V8W 1E5 (main entrance & box office)	
Stage door/loading door address:	900-block Blanshard St. East side (northbound lane)	

### Administration:

Executive Director:	Lloyd Fitzsimonds	(250) 361-0801	<a href="mailto:lfitzsimonds@rmts.bc.ca">lfitzsimonds@rmts.bc.ca</a>
Technical Director:	Blair Morris	(250) 361-0818	<a href="mailto:brmorris@rmts.bc.ca">brmorris@rmts.bc.ca</a>
Rental information:	Mandy Niddrie	(250) 361-0807	<a href="mailto:mdewey@rmts.bc.ca">mdewey@rmts.bc.ca</a>
Marketing Information:	Ainslee Jessiman	(250) 361-0800	<a href="mailto:marketing@rmts.bc.ca">marketing@rmts.bc.ca</a>
Box Office Manager:	Melissa O'Shea	(250) 361-0808	<a href="mailto:moshea@rmts.bc.ca">moshea@rmts.bc.ca</a>
Front of House Manager:	Debora Johns	(250) 361-0809	<a href="mailto:djohns@rmts.bc.ca">djohns@rmts.bc.ca</a>

### Technical information URL:

Technical documents and drawings for the Royal Theatre are available online at:

<http://www.rmts.bc.ca/rental-information/royal-theatre-technical-info>

Please check for updates as applicable.

## Front of House

### Seating Capacity:

Main floor	736	691 with full orchestra pit
Balcony	642	
Loges	24	
Boxes	14	
Wheelchairs	10	(Included in main floor count of 736)
Total capacity	1416	1371 with full orchestra pit

### Configuration:

Proscenium theatre, conventional seating, four aisles  
 One balcony, six loges at the front of the balcony, two side boxes at balcony level  
 Wheelchair seating at the back of the main floor only, left and right sections

### Seating holds:

The RMTS holds 14 house seats, plus 14 seats in reserve.  
 Use of the full orchestra pit requires the removal of 45 seats (main floor rows AA & BB).  
 Use of a rental or touring sound system normally requires 14 holds near the stage for potentially obstructed sightlines, and 20 holds for production equipment at the rear of the main floor.  
 Additional holds must be arranged for video camera positions, etc.

### Production position:

Located at rear of main floor, centre section, behind Row Y. A level area 13' x 5' (3.9 x 1.5 m) is available. See details under "Sound – Location". Contact theatre if this area is to be used.  
 Wheelchair areas (back of main floor, left and right) are not available for production equipment.

### Box office:

Hours are 10:00 a.m. to 1:30 p.m. and 2:00 p.m. to 5:00 p.m. Monday through Saturday, and from two hours prior to any performance until one half hour after showtime. Tickets for the Royal Theatre are also sold at the McPherson Playhouse box office.

### Front of House staff:

Box office attendants, ushers, ticket takers, concessionaires, bartenders and coat check attendants are provided. Merchandise sellers are available by arrangement.

**Normal length of intermission:** 20 minutes

### Related equipment:

1	Portable display board, with lights	9'4"W x 6'4"H (2.84m x 1.93m)
3	Folding display easels	
9	6' (1.8 m) folding tables	White
7	4' (1.2 m) folding tables	White
120	Folding armless chairs	Black
1	Lectern, blonde oak finish	Shared with stage – check for availability
1	Yamaha C5	6'-7" conservatory grand piano Shared with stage – check for availability
	Hearing assistance system	Includes 20 headset receivers
	Lobby video, audio, paging/chimes, emergency paging, video signage	See under "Audio"

# Stage

## Stage dimensions:

Proscenium opening – width:	37'-10" (11.53 m) 38'-0" (11.58 m)	from stage floor to +16" (0.41 m) from +16" (0.41 m) to top of prosc
Proscenium opening – height:	32'-10" (10.01 m)	Height at center – proscenium curves down slightly toward sides. Playing height is set by soft goods.
Plaster line to US wall:	38'-6" (11.73 m)	Clear depth to pilasters
Plaster line to apron edge:	1'-10" (0.56 m)	Plywood footlight-trough cover only
Center line to SR wall:	44'-0" (13.41 m)	Clear width to pilasters
Center line to SL wall:	44'-0" (13.41 m)	Clear width to pilasters
SR wing free height:	25'-4" (7.72 m)	With side truss at maximum height
SL wing free height:	25'-4" (7.72 m) DS 22'-0" (6.70 m) US	With side truss at maximum height With piano at maximum height
Center line to SR fly floor:	30'-0" (9.14 m)	
Center line to SL fly floor:	30'-0" (9.14 m)	
Stage floor to under grid:	74'-0" (22.6 m)	

## Fly information:

Total sets of lines:	58
Occupied lines:	14 – hemp sets (house masking – may be cleared) 4 – winched house electrics (not available for scenery) 7 – counterweight sets (main drape, fire curtain, orchestra shell) 2 – hemp sets (grand valence and Surttitle screen) Cyc electric is hung on truss & motors, which blocks 3 line-sets above Cyc electric truss may be re-spotted – contact TD
Available lines:	29 – with house masking and cyc electric in place (hemp sets) 45 – with house masking and cyc electric cleared (hemp sets) 1 – truss set (SL_SR) on chain-hoists – normally hung US as storage 2 – side truss sets (US-DS) on manual chain falls
Loading capacity:	Hemp set – 400 lbs. uniformly distributed Doubled hemp set – 800 lbs. uniformly distributed House electrics – 1000 lbs. uniformly distributed Side truss – 1000 lbs. uniformly distributed US truss – 1500 lbs. uniformly distributed
Length of pipes:	House electrics: 52' (17.7 m) – cannot be extended Pipes: various lengths up to 55' (16.8 m) x 1.5" sched.40 Wooden battens: various lengths up to 58' (17.7 m) Side trusses: 32' (9.75 m) x 12" box US truss: 48' (14.63 m) x 12" box
Max. flying width:	58'-0" (17.68 m)
Max. flying height:	73'-0" (22.25 m) for all available hemp sets 37'-6" (11.43 m) for house electrics #1-4 (max. pipe height) 32'-0" (9.75 m) for orchestra shell #1-5 (max. clear height)
Line-set spacing:	6" (0.15 m) between most hemp sets. See line list for full details.
Operation:	SR fly floor, at 29'-6" (9.00 m) above stage floor. Main drape is operated from stage level DSR.

**Stage notes:**

Orchestra shell towers store in wings, one stack of four per side. Each stack covers a roughly triangular area with outside dimensions of 8' x 10' (2.4 x 3 m). See ground plan for details.

**IMPORTANT NOTE:** The fire curtain must not be impeded, by order of the Victoria Fire Department.

**Fly system notes:**

Contact the Technical Director in advance regarding any flying requirements.  
 All available lines are 5-line 'hemp-rigged' sets (1/2" diameter synthetic rope, 13' spans).  
 A 1000 lb.-capacity capstan winch is used to assist in rigging heavy loads on hemp sets.  
 'House' masking trims: 23'-0" (7.01 m) border height, 38'-0" (11.58 m) leg opening.  
 See line list for full details. <http://www.rmts.bc.ca/rental-information/royal-theatre-technical-info>

**Rigging information:**

Contact the Technical Director in advance regarding all rigging requirements.  
 There are no available rigging points anywhere downstage of the proscenium.  
 Maximum load on lowest-rated grid point: 1/2 ton (453 kg).  
 2 – 1 tonne Chainmaster BGV-D8 hoists are normally available for general use.  
 Additional motors: three for US truss, three for Cyc LX truss.  
 A point is rigged center stage at 30'-8" (9.35 m) (hook height) above the trapdoor, for loading large wardrobe crates into the dressing room area using a house chain-motor.  
 Large house projection screen is permanently rigged from 2 – ½ tonne chain-motors.

**Stage floor:**

Maple, stained dark brown, from centre-line to 20'-7" (6.27 m) SL and SR  
 Offstage is surfaced with Masonite.  
 Lagging, nailing and screwing into stage floor is not permitted.

**Trap door:**

One "Hamlet" trap, located at centre stage. No trap elevator.

Note that large wardrobe crates can only be loaded into dressing rooms through this trap door.

Door size:	9'-0" w x 5'-9" (2.74 x 1.75 m) in three sections
Clear opening:	9'-0" w x 5'-1" (2.74 x 1.55 m)
Height:	12'-2" (3.71 m) from stage floor to green room floor
Location:	Center of opening is 15'-8" (4.78 m) from plaster line

## Stage Equipment

### Draperies:

Legs:	10	13'-0" W x 33'-10" H	Black 25 oz. velour, flat
Borders:	5	58'-0" W x 12'-0" H	Black 25 oz. velour, flat
Backdrop panels:	4	30'-0" W x 33'-10" H	Black 25 oz. velour, flat
Cyclorama:	1	58'-0" W x 30'-0" H	White filled Leno (cloth)
Scrim:	1	58'-0" W x 34'-0" H	Black
Scrim (spare):	1	54'-0" W x 30'-0" H	Black
Grand Valance:	1	40'-0" W x 10'-0" H	Red 32 oz. velour, shirred, scalloped
Main Curtain:	1	41'-0" W x 30'-0" H	Red 32 oz. velour, fullness, in two panels
German tabs:	6	4'-0" W x 26'-0" H	Black 36 oz. velour (fair condition)
Drape panels:	8	9'-10" W x 50'-0" H	White voile

**Drapery notes:** Main drape and backdrops are guillotine only. No traveller tracks are available.

**Risers:** Wenger Versalite, black phenolic surface

10	4' x 8' (1.22 x 2.44 m)	With leg-sets for up to 7 risers each of 8", 16" & 24" height
4	4' x 4' (1.22 x 1.22 m)	Using legs from above stock

**Chairs:** 70 – black, padded pan and back  
**Stools:** 6 – 30" bar style, wood, dark brown  
 3 – 30" bar style, wood, back with blonde top  
**Lectern:** 1 – blonde oak finish  
**Tables:** 2 – 4' x 2'-0" (1.22 x 0.61 m)  
 2 – 6' x 2'-6" (1.83 x 0.76 m)  
 2 – 8' x 2'-6" (2.44 x 0.76 m)

**Dance floor:** Harlequin "Cascade", black, 49' W x 33' D (15 x 10 m), by advance arrangement only.

**Ballet bars:** 6 – 10' (3.0 m) sections x 44" (1.1 m) H, 1.5" aluminium pipe and Kee-Klamp

### Ladders:

1	32' (9.7 m)	Aluminum extension ladder
1	24' (7.3 m)	Aluminum extension ladder
1	12' (3.6 m)	Fibreglass step ladder
1	10' (3.0 m)	Fibreglass step ladder
2	8' (2.4 m)	Fibreglass step ladder
1	5' (1.5 m)	Fibreglass step ladder
4	Various heights	Custom extension ladders – for FOH lighting positions only

**Lift:** 1 – MEC Handy Herman 24D, platform height 24' (7.3 m), working height 30' (9 m)

**Miscellaneous:** 2 – sets of removable stairs from aisles to stage  
 1 – convertible hand truck, 500 lb. capacity  
 1 – hand truck  
 2 – flat 4-wheel dollies  
 5 – Yellow Jacket 5-channel cable protectors  
 1 – drum carpet, 8' x 8', grey  
 Assorted cable mats  
 Mop and bucket, brooms, wet/dry vacuum cleaner, carpet sweeper

**Elevators:** None. See note under "Wardrobe – Access" regarding load-in to dressing rooms.

## Orchestra and Related Equipment

**Orchestra shell:** Wenger "Stage Master". Consists of four flown headers to form ceiling, one flown US wall, and 8 rolling towers to form side walls. See note under "Stage" regarding storage of shell towers in the wings.

**Conductor's rostrum:** 1 – 3' x 3' x 8" H (0.9 x 0.9 x 0.2 m H) Wenger

**Music stands:** 10 – Manhasset Model #48. See note below.

**Stand lights:** 10 – Manhasset Model #1000, 40W lamps. See note below.

**Pianos:** 1 – Yamaha C5 6'-7" conservatory grand (lobby or stage)  
1 – Steinway Model D 9' concert grand (stage only)

**Piano tuner:** House tuner only, arranged through the Technical Director.

**Note:** Additional music stands and orchestra chairs (owned by the Victoria Symphony) may at times be on-site and available for use. Contact the RMTS Technical Director in advance to confirm availability.

## Orchestra Pit

### Specifications:

Access:	2 sets of stairs from green room (DLS and USR)
Depth below stage floor:	5'-1" (1.55 m)
Depth below house floor:	1'-3" (0.38 m)
Pit length:	46'-6" (14.1 m)
Pit width:	7'-0" (2.1 m) at center
Accommodated musicians:	Approximately 16
Expanded pit length:	Approx. 50' (15.3 m)
Expanded pit width:	Approx. 12' (3.6 m) at center
Accommodated musicians:	Approximately 38
Elevators:	None

**Notes:** Pit is expanded by manual removal of risers and 45 seats.  
Large instruments must load in from stage or auditorium  
Contact theatre well in advance if full pit is to be used.

## Loading Area

- Location:** 900 block Blanshard Street, northbound lane.
- Distance from stage:** Approx. 50' (15 m) from truck to S.L. wing
- Loading dock:** None. Load-in is from reserved street parking only.
- Loading door:** Exterior door: 9'-5" W x 13'-0" H (2.9 m W x 3.9 m H) located at sidewalk.  
Interior door: 9'-6" W x 12'-6" H (2.9 m W x 3.8 m H) located at SL wing
- Notes:** All gear must travel down an interior ramp approx. 26'L x 5'H x 15'W (8 x 1.5 x 4.5 m).  
Up to 9 parking meter spaces can normally be reserved for loading.  
Parking permits must be arranged with theatre in advance.  
Large crates for dressing rooms must load in through trap, located centre stage.  
Theatre provides chain-motor hoist and slings for loading in through trap.

## Wardrobe

- Location:** Dressing room area, one floor beneath stage level.  
Laundry / storage room is adjacent to solo dressing room 3.  
Work area is adjacent to green room and solo dressing rooms.
- Access:** Stairwells USR and DSL. Large crates must load in through trapdoor CS.
- Equipment:**

2	Jiffy J-4000 Pro-Line 1500W industrial steamers
1	Jiffy J-2 1350W industrial steamer
1	Silver Star ES-94A industrial steam iron (with outboard reservoir)
1	Rowenta IS430 1400W compact steamer
1	Black & Decker 460 consumer steam iron
1	Pfaff CL404 ironing board (with heater and fan)
1	Consumer ironing board
1	Double-sided sleeve ironing board
1	Whirlpool Model WFW5090GW 2.6 cu. ft. compact washer
1	Whirlpool Model YWHD5090GW 4.3 cu. ft. compact dryer
1	Kenmore C97912 SC Laundry Centre 3.0 cu. ft. washer, 5.7 cu. ft. dryer
1	Maytag 2000 Series Model YMEDE201YWO 6.7 cu. ft. dryer
1	Panda Model PANSP22 16-22 lb. capacity spin dryer
1	Pfaff 138 reversing zig-zag industrial sewing machine
9	Collapsible rolling costume racks
3	Honeywell 3-speed fans
	Assorted drying racks, mirrors, baskets, sewing supplies, etc.

- Notes:** Wardrobe equipment is available only when house wardrobe crew is present.  
Work area is equipped with fixed costume/hat racks, steamer hooks and cupboards.  
All dressing rooms have fixed costume/hat racks.



## Lighting

- Dimmers:** 264 – 2.4kW ETC Sensor dimmers, DMX-512, ETCNet2
- Control:** ETC Gio – 2048 channels, 10,000 cues, 300 submasters, WRFU  
ETC Ion Remote Processor Unit – rack-mounted tracking backup  
Net3 remote video interface 3 (RVI3)
- Location:** House lighting console is located in booth at rear of main floor.  
Touring lighting consoles must be set up in adjacent production area.  
Contact theatre if the production area is to be used.  
See details under “Sound – Location”.
- Houselights:** 2 – 2.4kW ETC Unison dimmer racks  
Operation is from control booth, through a dedicated control panel.  
Auxiliary on/off switches located DSR and in FOH office.

### Lighting positions:

House electrics 1-4	Onstage	52' pipes, max. load 1000 lb.
Side trusses L/R	Onstage, 30' from CL	32' x 12" box truss. Max. height 25'-4"
Box pipes L/R	Above boxes, near pros. Throw: 40' approx.	House hang/focus only – see below <b>Not available for re-hang or re-focus</b>
Balcony booms L/R	Sides of balcony Throw: 70' approx.	Max. 16 instruments per side Fall arrest required to hang and focus
Far pipe	Rear of balcony Throw: 120' approx.	Max. 24 instruments Located in booth at rear of balcony
Truss US (LED cyc-lights)	Upstage – see line-list	52' pipe attached to 56' x 12" box truss. Moveable by advance arrangement only
Circle rail	Front edge of balcony Throw: 50' approx.	Curved pipe, full width of balcony Max. load 30 lb. per foot No installed circuits <b>Scaffold access only</b>

**IMPORTANT NOTE:** The box pipe positions may only be used “as is”. See additional note below.

### Circuits:

House electrics 1-4:	126 dimmers 22 non-dims	Non-dims reserved for moving lights
Multi-cable drops:	54 dimmers	All from SL fly floor
Stage level:	18 dimmers 2 non-dims	
Front-of-house:	64 dimmers 8 non-dims	Non-dims reserved for moving lights
Orchestra pit:	2 dimmers 4 non-dims	Dimmers repeated in floor pockets Non-dims reserved for sound
SL fly floor	6 non-dims	See circuit plot

- Non-dims:** 42 – 20A L5-20R, switched at breaker panel DSR only  
6 – 5-15/20R, switched at breaker panel DSR only, reserved for LED strip lights  
Most non-dims are reserved for moving lights, accessories, etc.

**FOH transfer panel:** Located DSR. Connectors are Socapex / L5-20P break-ins.  
Access to 42 FOH circuits (balcony booms, box pipes, orchestra pit)

### Lighting instruments:

15	Vari-Lite VL1000TS	Automated ERS	1000W	
8	Vari-Lite VL500	Wash luminaire	1200 W	Medium lens
16	ColorBlaze 72	3-colour LED striplight	425 W	10 degree
6	Altman SkyCyc	4-way cyc light	1 kW x4	(Note: in storage)
6	Altman Zip Strip	3-way strip light	750 Wx3	(Note: in storage)
46	ETC Source Four	PAR EA	575 W	See below re: lenses
4	ETC Source Four	PAR EA – XWFL	750 W	Worklight only
36	Selecon Arena HP	7" fresnel	1 kW	
24	ETC Source Four	5 degree ERS	750 W	Hung FOH
30	ETC Source Four	10 degree ERS	575 W	Hung FOH
6	ETC Source Four	14 degree ERS	575 W	Hung FOH
22	ETC Source Four	19 degree ERS	575 W	
68	ETC Source Four	26 degree ERS	575 W	
34	ETC Source Four	36 degree ERS	575 W	
8	ETC Source Four	50 degree ERS	575 W	
12	ETC Source Four	25-50 zoom ERS	575 W	
2	ETC Source Four LED Series II Lustr	19 degree EDLT	130 W	
2	ETC Source Four LED Lustr+	26 degree	130 W	
6	ETC Source Four LED Lustr+	2 – 19 degree 2 – 26 degree 2 – 36 degree	130 W	For proscenium and auditorium decor only. See note below.
8	ProCan PAR 20	Mini PAR ("Birdie")	75 W	

### Additional lenses:

8	ETC Source Four ERS	50 degree lens tubes
8	ETC Source Four ERS	36 degree lens tubes
4	ETC Source Four ERS	26 degree lens tubes
2	ETC Source Four ERS	19 degree lens tubes
46	ETC Source Four PAR	Sets of WFL, MFL, NSP, VNSP lenses

### Accessories and hardware:

28	Apollo Spectra Q3 scrollers, 16-frame custom strings
4	Rosco I-Cue Intelligent mirror – reserved for use with S4 Lustr fixtures
36	ETC Source Four iris
36	Selecon barndoor
6	A size gobo holder
68	B size gobo holder
8	10' pipe booms, (steel base plate, 1.5" schedule 40 pipe)
10	Side ladders – truss mount only
10	'Christie Lites' fixture floor base 10"x10"x4"

**Notes:**

See house lighting package and plot for detailed information on house lighting hang, circuit locations, lighting positions, permanent positions of fixtures, etc. and complete lists of accessories, hardware, etc.

<http://www.rmts.bc.ca/rental-information/royal-theatre-technical-info>

No re-hanging or re-focusing is permitted at the box pipe positions. Due to access issues, these positions must be used with the house hang “as is”, and are not available for hanging additional fixtures. See note under “Lighting Positions”.

The Source Four LED fixtures lighting the proscenium and auditorium décor are not available for any other purpose.

**Connectors:**

NEMA L5-20 – 20Amp twist-lock ground (“new style”, pin in)

**Colour stock:**

Lee – most colours 101-204 in stock, in cardboard frames or sheet stock  
Roscolux – limited stock

**Lighting cable:**

3000'+	(various lengths)	12-gauge twist-lock cable
15	25' (7.6 m)	6-circuit multi-cables, maximum 10A per circuit
6	50' (15 m)	6-circuit multi-cables, maximum 10A per circuit
4	100' (30 m)	6-circuit multi-cables, maximum 10A per circuit
9	83' (25 m)	6-circuit multi-cables (drops from SL fly floor), maximum 10A per circuit
30	3' (0.9 m)	twist-lock two-fers

**Followspots:**

2	Lycian 1267 SuperArc 400	400W HTI-400/24 bulb, long throw Located in projection booth at rear of balcony Throw distance: approx. 120' (36m)
---	--------------------------	--

**Fog/haze machine:**

1	MDG “theONE”	Atmospheric generator (haze or fog)
---	--------------	-------------------------------------

**Auxiliary power:**

1	200A 3-phase 120/208V	DSR	
1	200A 3-phase 120/208V	DSL	
1	400A 3-phase 120/208V	USR	Requires disconnection of dimmers 193-240
1	400A 3-phase 120/208V	SL fly floor	Requires disconnection of dimmers 1-96 Min.75' feeder cable to reach stage floor.
1	400A 3-phase 120/208V	SL fly floor	Requires disconnection of dimmers 97-192 Min.75' feeder cable to reach stage floor.
1	50A 1-phase 120/208V	DSL	
1	50A 1-phase 120/208V	DSR	

**In-house power distribution available:**

- 2 – 8 x 5-15/20R (U-ground) splitters, for use with 14-50R services DSL & DSR, max load 50A
- 1 – 15 x 5-15/20R (U-ground) splitter, for use with 3-phase service, max load 100A
- 1 – 50' (15.2m) set of feeder cables, 5 x 2/0, max load 200A

**Notes:**

Contact the Technical Director well in advance to arrange for permit and hook-up electrician. All touring and rental equipment and conductors must be approved by CSA, ULC, or Intertek, and must display valid approval stickers as per the BC Electrical Code. Use of 400A services requires the disconnection of house dimmers (see above). Connectors for 3-phase services are Cam-Lok 'J' series, reversed ground and neutral. Connectors for 50A services are 14-50R range receptacles.

**Shore power (exterior circuits):**

2	15 A 120 V	5-15R	Near loading door
1	30 A 120/208 V	L15-30R	Near stage door (note: ceiling mount)
2	20 A 120 V	5-15/20R	Panel on south wall of stagehouse, near stage door
2	50 A 120/208 V	14-40R	Panel on south wall of stagehouse, near stage door
1	20 A 120 V	5-15/20R	South wall of stagehouse

Note: exterior circuits have very limited application for shore power, as cables must not cross the sidewalk. Contact TD if shore power is required.

# Sound

## Location:

House FOH console and playback rack are located at the rear of the main floor.  
See drawings: <http://www.rmts.bc.ca/rental-information/royal-theatre-technical-info>  
Touring and rental FOH consoles must be set up in the area adjacent to the house console.  
Dimensions: 13' x 5' (3.9 x 1.5 m), plus overhang covering the last row of seats  
Optional house table: 10' x 5' x 2'6" H (3.1 x 1.5 x 0.8 m H), covers last two rows of seats  
Alternate house table: light-duty 11' x 4' (3.4 x 1.2 m), covers last row of seats  
Contact theatre if the production area is to be used.

## Front-of-house mixing console:

DiGiCo SD5 Stealth Core 2 — 96 kHz sampling rate, 253 input channels, 124 output busses, 24 x 24 matrix, 2 solo buses, 253 dynamic equalizers, 253 DiGiTuBes, 253 multiband compressors, 36 control groups (VCA style), 32 x 32 band graphic EQs, 48 digital effects, 37 touch-sensitive motorized faders, 3 x 15" LCD high resolution touch screens. 4x redundant MADi interfaces. Consoles and I/O racks operate on a redundant 2GB fibre optic loop.

## Console I/O Racks:

1	DiGiCo SD Rack	56 inputs and 56 outputs (16 AES) – located SR
1	DiGiCo D-Rack	32 inputs and 16 outputs – located SL
1	DiGiCo SD MINI Rack	16 inputs and 16 outputs – located FOH

## Installed PA system:

24	Meyer Sound LEOPARD	Line array – 12 per side
4	Meyer Sound 900-LFC	Subwoofer – two per side within line array
2	Meyer Sound 1100-LFC	Subwoofer – orchestra pit
4	Meyer Sound UPJ-1P	Main floor front fill – apron edge
6	Meyer Sound UPM-1XP	Under-balcony / under-box fill
1	Meyer Sound RMServer	Remote Monitoring System (RMS) for real time monitoring of all Meyer speakers

## Processors and amplifiers:

3	Meyer Sound Galaxy 816	System drive processor
---	------------------------	------------------------

## Playback:

2	Denon DN-C640	Slot-in network CD player
2	Tascam SS-CDR1	CD / Compact Flash recorder
1	Figure 53 QLab 4 Show control software	Current version includes audio, video, and MIDI show control

## Microphones and DI boxes:

9	Shure SM58	Dynamic – cardioid
4	Shure Beta 58A	Dynamic – supercardioid
7	Shure SM57	Dynamic – cardioid
4	Shure Beta 56	Dynamic – supercardioid (w/A56D drum clamp mount)
1	Shure Beta 52A	Dynamic – modified supercardioid
3	Sennheiser MD 421	Dynamic – cardioid
1	Sennheiser e902	Dynamic – cardioid
3	Sennheiser e904	Dynamic – cardioid (with drum mount)
2	Sennheiser e609	Dynamic – supercardioid
1	EV RE20	Dynamic – cardioid
2	CAD Equitek E-100	Condenser – supercardioid
4	AKG C1000S	Condenser – cardioid / hypercardioid
5	AKG 451B	Condenser – cardioid
4	AKG C 414 B-ULS	Condenser – switchable
4	Neumann KMS 104	Condenser – cardioid
2	Neumann KMS 140	Condenser – cardioid
6	Neumann KM 184	Condenser – cardioid
2	Schoeps CMC6-U	Condenser – cardioid
3	Schoeps CCM4/RL1200g	Tube-mounted condenser – cardioid
1	Shure Beta 91	Boundary condenser – half-cardioid
1	AMG C-ducer CPS/8	Stereo contact condenser
1	Radial ProD1	Passive D.I. box
1	Radial ProAV2	Stereo D.I. box (multi-media)
4	Radial J48	Active D.I. box (phantom powered)
4	Radial JDI	Passive D.I. box
1	DPA SC4096-BX45	Podium microphone

## Wireless Microphones:

1	Lectrosonics Venue 6-channel receiver	Digital Hybrid Wireless receiver for use with SMD or UH400A transmitters
6	Lectrosonics SMD Belt-pack transmitter	Wireless lavalier condenser – with DPA 4061 omni lavs Channels are shared with UH400A transmitters
6	Lectrosonics UH400A Plug-on transmitter	Channels are shared with SMD transmitters
1	Lectrosonics Venue 2 6-channel receiver	Digital Hybrid Wireless receiver for use with HHa transmitters
6	Lectrosonics HHa Hand-held transmitter	With Shure SM58 dynamic cardioid or Neumann KK104 condenser supercardioid capsules

### Microphone accessories:

10	K&M 210/1	Tripod stand, 2 section with long boom (chrome)
4	K&M 210/9	Tripod stand, 2 section with 2 section boom (black)
15	K&M 252	Tripod stand, 3 section with 2 section boom (black)
10	K&M 259	Tripod stand, 2 section short with 2 section boom (black)
2	K&M 255	Tripod stand, 1 section short with 2 section boom (black)
1	K&M 25960	Round base, short with 2 section boom (black)
4	K&M 26000B	Round-base elevator stand (black)
6	(various makes)	Table-top elevator stands (3 chrome, 3 black)

### Monitor console:

DiGiCo SD10 Stealth Core 2 — 96 kHz sampling rate, 132 input channels, 56 output busses, 24 x 24 matrix, 2 solo buses, 218 dynamic equalizers, 218 DiGiTuBes, 218 multiband compressors, 24 control groups (VCA style), 24 x 32 band graphic EQs, 24 digital effects, 37 touch-sensitive motorized faders, 1 x 15" LCD high resolution touch screen. 2x redundant MADi interfaces. EZ-tilt stand. Gain Tracking enabled on SD10 to allow both consoles to share one SD-Rack. Consoles and I/O racks operate on a redundant 2GB fibre optic loop

### Monitor speakers, amplifiers, crossovers:

10	EAW SM200iH	Monitor wedge – bi-amped
2	EAW SM260iV	Monitor wedge – bi-amped
2	BSS 9088 SoundWeb	crossovers for 8 bi-amped mixes
4	Crest 7001	2 channel amplifier (HI)
4	Crest 7001	2 channel amplifier (LO)
4	Meyer Sound UPA-1P	(No stands)
2	Meyer Sound USW-1P	Subwoofer for UPA-1P
2	Meyer Sound UM-1P	Monitor wedge, normally located DSR/DSL

### Miscellaneous sound equipment:

2	KRK V8	Located in house sound mix position (monitor)
1	KRK S10	Located in house sound mix position (subwoofer)
2	JBL Eon P-15	Powered speaker
1	Sennheiser SI1015 / RI150	Infrared hearing assistance system, 20 receivers
1	Apple iMac computer	Located at sound position – for system monitoring and cue playback
1	RME Fireface 800	Firewire sound interface (8 in / 8 out) for iMac
1	Rational Acoustics SmartLive v.8	Acoustical analysis software with SPL and RTA and Earthworks M30 measurement microphone
1	TerraSonde Audio Toolbox Plus	Audio test and measurement hardware with contractors software
1	Tascam MD-801R MK II	Mini-Disc player / recorder
1	Aiphone	6-station hardwired intercom system
4	Motorola HT-750	2-way radios, 4 channel – staff use only
1	Bose L1 Model II Single bass speaker system	With ToneMatch Audio Engine *** For special events in lobby only ***
4	Meyer Sound MYA-UPA	Flying bracket for UPA-1P

**Program sound and lobby/backstage paging system:**

Backstage program sound available, with discrete level control in each dressing room.

Backstage paging is available from DSL, DSR, or Clear-Com wireless headsets.

FOH paging is available to all lobby public spaces from FOH office.

Full-building emergency paging is available from DSR and/or FOH office.

**Intercom system:**

1	Clear-Com HelixNet HMS-4X	4-channel main station
1	Clear-Com FreeSpeak II-Base-II	1.9 GHz wireless base station
5	Clear-Com FS II-BP	Wireless beltpack / headset combination
12	Clear-Com HBP-2X	Wired beltpack / headset combination

**Stage/lobby video monitor system:**

1	17" 4K HD SDI display	Mounted in stage manager's rack DSR
1	Dual 7" HD SDI display	Mounted in stage manager's rack DSR
1	17" HD SDI display	Mounted in LX booth rear of main floor
1	Dual 7" HD SDI display	Mounted in rack at FOH sound position
2	32" HD LED displays	Mounted DSR and DSL on proscenium wall
1	32" HD LED display	Mounted on SR fly floor
2	32" HD LED displays	Roving - available for use on stage
2	32" HD LCD display	Mounted in green room area
2	80" HD LED displays	Located in east and west lobbies
2	32" HD LED displays	Located above main floor house doors
2	32" HD LED displays	Located above balcony house doors
2	Gefen Signage Players	Plays signage loop on all lobby displays – contact theatre for more information
1	4K HD colour camera	Full stage, from balcony (to backstage and lobby)
1	HD camera	Infra-red full stage, from balcony (to backstage only)
1	HD camera	Conductor or house, from pit (to backstage only)



## Projection

### Projection/video equipment:

1	Digital Projection Incorporated HIGHLite Laser 4K Projector	12,500 lumen 3 chip DLP 4K UHD projector (in Tempest WhispR G4 enclosure for use at front of balcony)
1	Digital Projection Incorporated HIGHLite Laser II Projector	13,000 lumen 3 chip DLP WUXGA projector (in rigging frame for overhead use on stage)
1	0.77:1 Fixed HB lens	1.3m – 15m focus range (no zoom) (for use with DPI projectors)
1	1.74-2.17:1 Zoom HB lens	2.2m – 11.8m focus range (motorized zoom) (for use with DPI projectors)
1	2.17-2.9:1 Zoom HB lens	2.7m – 15.5m focus range (motorized zoom) (for use with DPI projectors)
1	Christie DWU599-GS Laser Projector	6065 lumen 1 chip DLP WUXGA projector (permanently hung on balcony rail)
1	2.90-5.50:1 Zoom lens	(for use with Christie projector)
1	Stewart SnoMatte 100 AT3 film screen	Front projection 16:10 aspect ratio – 15' x 24' (permanently hung for use with HIGHLite Laser 4k projector – see line list for location)
1	Da-Lite Cinema Contour screen	Front projection 16:10 aspect ratio – 100" x 160" (permanently hung for use with Christie projector – see line list for location)
1	LightWare MM6x2 HT220	Matrix switcher 2 HD-Base-T & 4 HDMI inputs, 2 parallel HD-Base-T/HDMI outputs (located at FOH sound position)
1	LightWare UMX-TPS-TX140	HDMI, VGA, DisplayPort, DVI to HD-Base-T input box (fixed at FOH sound position)
1	Lightware UMX-TPS-TX130	HDMI, VGA, DisplayPort to HD-Base-T input box (for use Stage Right, Balcony Front, or Spot Booth)
1	LightWare HDMI-TPS RX-97	HD-Base-T to HDMI output box (for use Stage Right, Balcony Front, or Spot Booth)
1	etherCON HD-Base-T distribution	Inputs and outputs located Stage Right, Balcony Front, or Spot Booth
1	Denon Professional DN500BD MKII	Denon Professional rack mount Blu-Ray player (permanently located at FOH sound position)

**Notes:** Contact Technical Director if projection equipment is to be used.

## Dressing Rooms

**Location:** Dressing rooms, green room, showers, and washrooms are one floor below stage.

**Access:** Stage door is secured with a number lock. Contact TD to arrange access code.  
Stairs to dressing rooms are located DSL and USR. There are no elevators.  
Dressing rooms are not wheelchair-accessible.  
Large crates for dressing rooms must load in through trap located centre stage.  
There is no direct access from the lobby to backstage.  
The auditorium can be accessed via the DSL stairwell.

### Description:

Chorus Room 1	11 chairs, 15 mirrors, 4 sinks	
Chorus Room 2	19 chairs, 23 mirrors, 4 sinks	
Solo Room 1	2 chairs, 3 mirrors, 1 sink, desk lamp	
Solo Room 2	2 chairs, 3 mirrors, 1 sink, desk lamp	
Solo Room 3	2 chairs, 3 mirrors, 1 sink, desk lamp 3 phone lines, internet line	Suitable for use as office
Solo Room 4	2 chairs, 3 mirrors, 1 sink, desk lamp	
Solo Room 5	2 chairs, 3 mirrors, 1 sink, desk lamp 1 phone line	Suitable for use as office
Star Solo Room	2 chairs, 1 mirror, 1 sink, desk lamp armoire	By advance arrangement only
Conductor's Room	2 chairs, 1 mirror, 1 sink, desk lamp armoire, wine fridge, 1 phone line	By advance arrangement only
Green Room	Sectional couches 16 chairs 3 supplemental make-up mirrors Large dining table 5 – 8' (2.44m) folding tables Fridge, microwave, water cooler Internet line	
Director's Lounge	2 couches, 1 armchair 1 coffee table, 1 end table Number lock on door	By advance arrangement only
Showers	2 – showers total 2 – private changing cubicles	Located near Solo 4

### Notes:

All dressing room mirrors have 3500 degree Kelvin fluorescent make-up lights.  
All dressing rooms are carpeted.  
Solo and chorus dressing rooms have fixed costume/hat racks.  
Washrooms are located near green room.  
Wireless Internet is available throughout the theatre. Contact RMTS Crew Chief for password.

### Catering:

Meal service may be set up in the green room.  
Available chairs and tables are listed above.  
Access for catering companies must be arranged with the theatre in advance.

## Visiting Production Information

### Directions to theatre:

The Royal Theatre is on the southeast corner of Blanshard St. (Hwy. 17) and Broughton St. Stage door, loading area and truck parking are off the northbound lane of 900-block Blanshard. From Swartz Bay or Sidney ferry terminals, follow Hwy 17 (Blanshard) south to Broughton. From Nanaimo and other points north, follow signs to Blanshard and head south to Broughton. From transportation services on the Inner Harbour, head east to Blanshard St.

**Local accommodation, transportation and services:** Contact theatre.

### Production offices, telephones and Internet:

Solo dressing rooms 2, 3 and 5 are recommended for use as production offices if needed. House phone in Solo room 5 is available at no charge (250-361-0823, digital line, voice only). Contact TD to arrange for additional telephone lines. See under "Dressing Rooms" for locations of additional telephone lines and DSL ports. Wireless Internet is available throughout the theatre. Contact RMTS Crew Chief for password.

**Catering:** See under "Dressing Rooms"

### Stage Management:

Stage Manager's rolling rack DSR contains HD and IR monitors, with program sound.

There is no enclosed booth available for calling shows from FOH. The in-house production position at the back of the main floor may be used – see details under "Sound".

## Union

Employees of the Royal and McPherson Theatres Society are members of the International Alliance of Theatrical Stage Employees & Moving Picture Technicians, Artists and Allied Crafts (I.A.T.S.E.) Local 168, Vancouver Island.

Theatre management determines all staffing levels.

## Miscellaneous

Smoking in the theatre is prohibited by regional by-laws.

The use of open flame is not permitted.

The use of pyrotechnics is not permitted.

WHMIS Material Safety Data Sheets must be provided for all controlled products. Unlabelled chemicals (liquid, powder or paste) are not permitted in the theatre.