Technical Specifications for
The Moore Theater

HOPKINS CENTER FOR THE ARTS
DARTMOUTH COLLEGE
HANOVER, NH
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CONTACT INFO

Hopkins Center Staff
- **Senior Production Manager:** Keely Ayres (603) 646-0971
- **Production Manager:** Todd Campbell (603) 646-3224
- **Production Manager:** Mark Hanneman (603) 646-9368
- **Production Office:** (603) 646-1661
- **Programming Office:** (603) 646-3453
- **Events Office:** (603) 646-0972

Addresses
- **Mail / FedEx / UPS Shipping Address**
  8 East Wheelock St
  Lower Level Wilson Hall #6041
  Hanover NH 03755

- **Physical Street Address (Hopkins Center for the Arts Public Entrance)**
  4 East Wheelock St
  Hanover NH 03755

Directions to Moore Theater Loading Dock

*From Interstate 89:*
Take exit 18 and follow route 120 north for about 6 miles into Hanover. At the traffic light adjacent to the Mobil Station, bear on Lebanon St. Go about 1/2 mile, the Moore Theater loading dock is in the parking area on your right immediately. Entrance is on your right at the base of the Citizen’s Bank sign. After entering the parking lot proceed up the incline to the top and look for a garage door in the farthest right hand corner of lot at the end of a long covered walkway/driveway.

*From Interstate 91:*
Take exit 13 and follow signs to Hanover and Dartmouth College. Take a right at the second light on Main St. At the next light take a left on Lebanon St and then another immediate left into a parking area at the base of the Citizen’s Bank sign. After entering the parking lot proceed up the incline to the top and look for a garage door in the farthest right hand corner of the lot at the end of a long covered walkway/driveway.

Best address to use to find the driveway on [Google Maps](https://www.google.com/maps) is:
12 Lebanon St, Hanover NH 03755.
**General Information**

Reference pictures can be viewed here.

Seating Capacity:
- 480 + 1 Wheelchair spot
- Orchestra: 292 + 1 Wheelchair spot.
- Forestage/Orchestra Pit: 52
- Balcony: 136

Theatre Access:
- Loading Door: 7'-11"H x 8'-6"W
- Door Access: Must back up ramped drive to street level dock.
- Loading Dock: Truck unloading is at street level. No truck ramp is available.
- Access to stage: Same level as Door, 150 feet to stage from truck unloading point.
- Trailer Storage: At Thompson Ice Arena parking lot across campus (10 min walk)

Dressing Rooms:
- 2 Small Dressing Rooms seat 8 each (with attached showers and toilets)
- 2 Large Dressing Rooms seat 16 each (showers and toilets down the hall)

  Dressing Rooms are shared with others theatres in the Hopkins Center. Please contact the Production Manager to ensure availability

  Dressing rooms are located one floor below stage level off stage right, accessible by stairs stage right or by elevator or stairs from stage left.

  All dressing rooms contain tables, chairs, mirrors and are well-lit. Proper heating is maintained.

  *There are no non-public restrooms on stage level.*

Wardrobe:
- 1 Washer, 1 Dryer.
- Access to an additional washer and dryer may be possible if pre-arranged.
- Laundry Location: SR, down one floor, on Dressing Room level.
- There is no designated wardrobe room but one of the 4 dressing rooms can be used.

Storage Space:
- There is limited space for storage of empties as the scene shop off stage left is in use during the day by the Theater Department.

Rehearsal Space:
- Theater Department Rehearsal Room may be available around class schedule if pre-arranged.
  - The room is app. 30'W x 25'D with a Marley floor over a tile floor and mirrors on one wall.
  - Straus Dance Studio in Alumni Gym - limited availability around class schedule if pre-arranged.

Labor:
- The Hopkins Center is an IATSE staffed facility employing Local 919 Stagehands and trained work-study students.
Stage Information

Stage Dimensions

- Height to the Grid Iron: 56'
- Height to the bottom of the lineset (flown out): 50'
- Height to the High Steel: 62'
- Proscenium width: 34'
- Proscenium height: 20’-3”
- Plaster line to back wall: 35’-8”
- Curtain to back wall: 34’-6”
- Front edge of apron to plaster line: 1’-11”
- Plaster line to edge of Cyc pit: 27’-11”
- Plaster line to Cyc pit hinge: 28’-11” (protrudes approx. 1/2” out of floor)
- Plaster line to last full stage working batten: 30’-6”

Wing space:
- Stage Right: 15’
- Stage Left: 16’-6”+ (see plan)

- Balcony Rail to plaster line: 39’
- Projection Booth to plaster line: 67’ at 23°
- Height of stage: 2’-8 ½”

Fly System:

- Number of useable linesets: 40
- Single purchase counterweight: 39
- Electric Winch: 1 (1st LX)

Lineset capacity
- Counterweight: 1500 lbs.
- 1st Electric Winch: 1st- 1600 lbs.
- Lineset high trim: 50’

Lineset Lengths
- 1 - 4: 52’
- 5 - 39: 56’
- 40: 53’ (cyc)

1st electric is a double batten on a winch (permanent)

House Curtain: Red Velour operates as guillotine or traveler; operated from SR stage floor. House curtain is not counted as a usable lineset.

Orchestra Pit:

Mechanical lift divided in to 3 sections that can access the dressing room hallways, and be raised to orchestra, seating, stage or stepped level.
- Load capacity: Lifting: 50lbs/sq.ft.
  Sustained: 150lbs/sq.ft.
- Max Lift capacity: Lift 1 & 3 7,000lbs
  Lift 2 10,000lbs
Dimensions: Each section is 13’ at its widest point, and 10’-12’ at its deepest. See link to drawing below for specifics.

Stage Floor:
Black marine linoleum floor over plywood with 4’x4’ trap sections Load capacity 150lbs/sq. ft.
Harlequin/Rosco (Marley) dance floor available in black, white and grey

Marley dance floor:

Harlequin Cascade
5 Rolls (Black)
#1 (Apron) 79” x 37’ 2”
#2,3,4 (Mid) 79” x 46’ 7”
#5 (Upstage) 79” x 50’

Harlequin Reversible
5 Rolls (White/Black)
#1 (Apron) 79” x 36’
#2,3,4 (Mid) 79” x 46’ 7”
#5 (Upstage) 79” x 45’

Rosco Marley used as subfloor
6 Full Rolls (Black/Grey)
#1 (Apron) 63” x 36’
#2,3,4,5,6 63” x -46’ (lengths vary +/- 4”)
2 Half Rolls (Black/Grey)
#1,2 (Wings) 63” x -24’

Masking Inventory: (See Lineset Schedule for Rep Hang - available in Excel)
(12) Legs 25’ H x 12’ W flat black velour, no fullness
(6) Borders 12’ H x 56’ W flat black velour, no fullness
(2) Half-Stage Blackout 25’ H x 29’6” W flat black velour, no fullness
(1) Full-Stage Blackout 25’ H x 56’ W flat black velour, no fullness
(1) Black scrim 25’ H x 40’ W
(1) White scrim 30’ H x 60’ W
(1) Cyclorama 30’ H x 56’ W grey, filled leno, muslin backing

Ladders and Lifts
The Moore Theater has a stock of 6’, 10’, and 12’ A-frame ladders.

There are two Genie AWP30S lifts available:
29’6” max platform height
35’6” max working height

**Due to safety regulations the lift may not be moved while elevated.

Links to detailed technical documents can be found here:
Hop.Dartmouth.edu/venues
Linest Schedule Lineset Schedule Metric
Moore Ground Plan (Vectorworks) Moore section (Vectorworks)
Moore Ground Plan (Visio)
**Electrics / Lighting System**

**Company Switch:**
- **Location:** Offstage Left, within 50’ of center stage
- **Amperage:** 400A/3 phase
  *We require a house electrician to tie into this power source.
- **Additional power:** 50A single phase receptacles - 1 each downstage left and downstage right

**Dimmers:**
- **Permanently installed:**
  - **Type:** ETC Sensor3
  - **Number of dimmers:** 282 @ 2.4kw; 2 @ 6kw
  - **Number of circuits:** 284
- **Additional dimmers located Mid SL:**
  - **Type:** ETC Sensor Dimmers
  - **Number of dimmers:** 72 dimmers; 3x 24 /2.4k dimmer packs
  - **Number of circuits:** 72 circuits; 4x 6 circuit socapex per pack

**Lighting Console:**
- **Type:** ETC EOS TI 4k with 2x10 Fader Wing
- **Location:** rear of auditorium house left, orchestra level, in booth
  
  ETC Puck Designer desk available

**Front of House Lighting Positions:**
- **Wire Grid**
  - **Distance from plaster line:** 2’-6” upstage side, 7’-3” downstage side
  - **Height above stage level:** 23’-3” (hanging positions are at 25’ and 26’-9”)
  - **Number of circuits:** 20 (3 pin stage)
- **Near Catwalk**
  - **Distance from plaster line:** 25’-4”
  - **Height above stage level:** 33’-10”
  - **Number of circuits:** 18 (3 pin stage)
- **Far Catwalk**
  - **Distance from plaster line:** 42’-4”
  - **Height above stage level:** 35’-1”
  - **Number of circuits:** 18 (3 pin stage)
- **House Side Slots**
  - **2 House box boom positions integrated into side stages**
  - **Distance from plaster line:** 20’ from plaster line
  - **Number of circuits:** 8 circuits each (3 pin stage)
- **2 located in balcony**
  - **Distance from plaster line:** 26’ from plaster line
  - **Number of circuits:** 4 circuits each (3 pin stage)
- **Balcony Rail:**
  - **Distance from plaster line:** 39’
  - **Distance to LS-40 (Cyc):** 72’
  - **Height above stage level:** 12’-9”
  - **Width of hanging area:** 23’
  - **Number of different circuits:** 4 (3 pin stage)
Downstage and Onstage Lighting Positions:
Proscenium Slot or Box Booms:
Just DS of plaster line SL and SR at 38’-6” from center line
Number of different circuits: 8 each (3 pin stage)
2 wall-mounted circuit boxes available on proscenium wall SL and SR:
Number of different circuits: 8 each (3 pin stage)

Onstage Electric Pipes:
First Electric - FIXED AND MOTORIZED
Distance from Proscenium: 3’
Number of different circuits: 20 (3 pin stage)
All other electrics pipes flexible pending lineset configuration
Typically Second, Third, Fourth and Fifth Electrics
with MultiBoxes dropped from the midrail

Onstage Boom Options:
Boom pipe and bases:
(10) 16’-18’ high boom pipes, set as required
(12) 50lb. boom bases
Circuiting Options: Multiboxes down from midrail or floor pockets
Floor pocket location: 4 per side, 4 circuits each, 23’ off center line,
at 8’-7”, 13’-7”, 18’-7” and 22’-7” upstage from plaster line

Lighting Inventory - CONVENTIONAL:

<table>
<thead>
<tr>
<th>Type</th>
<th>Quantity</th>
<th>Wattage</th>
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</thead>
<tbody>
<tr>
<td>Juliet Korrigan Followspot</td>
<td>2</td>
<td>1200W HMI</td>
</tr>
<tr>
<td>10° Source Four</td>
<td>23</td>
<td>575W</td>
</tr>
<tr>
<td>14° Source Four</td>
<td>12</td>
<td>575W</td>
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<tr>
<td>19° Source Four</td>
<td>44</td>
<td>575W</td>
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<tr>
<td>26° Source Four</td>
<td>104</td>
<td>575W</td>
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<tr>
<td>36° Source Four</td>
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<td>575W</td>
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<tr>
<td>50° Source Four</td>
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<td>575W</td>
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<td>70° Source Four</td>
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<td>575W</td>
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<tr>
<td>25-50° Source Four zoom</td>
<td>10</td>
<td>575W</td>
</tr>
<tr>
<td>Parnel Source Four</td>
<td>36</td>
<td>575W</td>
</tr>
<tr>
<td>Par 64 Altman</td>
<td>48</td>
<td>1K</td>
</tr>
</tbody>
</table>
| WFL, MFL, NSP lamp stock varies- please check in advance for exact qty
| 8” Fresnel                   | 12       | 1K            |
| 2k Studio Arri Fresnel       | 4        | 2K            |
| 2k True Blue Studio Arri Fresnel | 10   | 2K            |
| 10” Century Beam Projector   | 1        | 1K            |
| L&E Far Cyc (3 cell/circ)    | 16       | 1K per circ   |
**Lighting Inventory - INTELLIGENT:**

<table>
<thead>
<tr>
<th>Qty</th>
<th>Type</th>
<th>Lens options</th>
<th>Qty</th>
<th>Type</th>
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<tbody>
<tr>
<td>24</td>
<td>ETC Selador Desire D60 Vivid LED</td>
<td>24 each type Medium Oval, Wide Oval, Wide Round, Medium Round, Narrow Round</td>
<td>14</td>
<td>Chroma-Q Colorforce72 LED Strips</td>
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<tr>
<td>3</td>
<td>VariLite 3000Q Spot</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>VariLite 3500Q Spot</td>
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<tr>
<td>3</td>
<td>VariLite 4000 Spot</td>
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</tr>
<tr>
<td>18</td>
<td>Wybron CXI Color Scrollers**</td>
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<tr>
<td>9</td>
<td>Wybron CXI-IT Color Scrollers**</td>
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</table>

*(Scroller Systems are NOT interchangeable)*

**Check with Production Manager for availability

**Fogger/Hazer/Miscellaneous Inventory:**
- Rosco 1500 Fogger
- Rosco 3000 Fogger (DMX)
- MDG Atmosphere Hazer (DMX)
- (4) Rosco RevPro gobo rotators
- (1) 12” mirror ball
- (2) Diversitronics DK-2000 Dome Strobes
- (1) Diversitronics Mark II Strobe

**Lighting Accessories:**
- Barndoors
- Top hats
- Iris
- Gobo holders
- Side arms
- Twofers

Please contact Production for exact numbers at time of use.

**Cyclorama Lighting:**
- Cyc pit available (pit covered when not in use).

**House Lights:**
- House lights are fully dimmable and controlled either backstage right or from the light booth via control station or through the lighting console.
Sound System

Console:
Yamaha CL5 Digital console

Additional Mixing Consoles: may be available. (check with Production Manager)
Yamaha LS9-16

Speakers:
2 Meyer UPA-1P (Mains L/R Main Floor)
2 Meyer UPJunior (Mains L/R Balcony Fill)
1 Meyer UPA-1P (Center Balcony Fill)
2 Meyer USW-1P (Subs flown at Proscenium L/R)
6 EAW KF-300 satellite/stage monitor cabinets
8 EAW JF-80Z satellite/stage monitor cabinets
6 Meyer MM4-XP with 2 MPS-488HP Power Supply for Front Fills/satellite
2 Meyer MM4-XP with MPS-481 power supplies

Stage Amplifiers:
2 Crest 7001
4 QSC MX-1500
2 QSC MX-700
1 QSC 4000

Processing/Analyzing:
Meyer Gallileo Galaxy 816
Smaart Software v8
Earthworks S30 mic with FR-SC2i2 interface

Source Devices:
1 iMac with Qlab
   - Multichannel digital output via Dante Virtual Soundcard
   - Stereo analog output headphone jack w direct box

2 Sony CDPD-11 CD players

Lines & Connectors:
Signal lines to stage via Dante network
Booth patch in/out
   - Yamaha Rio1608-D2 Stagebox
   - Console local omni connectors
Stage patch in/out
   - Yamaha Rio 3224-D2 Stagebox
   - Yamaha Rio 1608-D2 Stagebox
   - Additional Dante patch points are located in booth and SR & SL wings for additional third party devices (ie. Dante capable Monitor desks, stageboxes, mics, playback)

Legacy analog XLR lines are downstage left and right via two 12x4 snakes to sound booth and are equipped with transformer splits for onstage monitor mix. Ample mic and speaker cables are available.
Headset System/ Booth Monitors:
Type: 10 station, 4 channel Clearcom base station/matrix
Base Station Location: Can be located at the stage manager's panel DSR or in the light booth

Wireless Com (check with production manager for availability)
Digital Clearcom wireless headset system with 5 belt packs (4 more may be available)

Dressing Rooms, Green Room, and Scene Shop are all equipped with monitor/call boxes.

Booth monitoring systems consist of 1 AKG condenser mic hung over the stage with a Mic preamp to a Rolls RM424 Four Zone Mixer. Mixer sends feeds to the light, sound and follow spot booths. Each booth has a Yamaha MSP2 2 way powered speaker with adjustable volume.

Video Monitoring:
IR camera on FOH balcony rail with single 9” monitor
-Monitor can be cabled to a Stage Manager position in wing, booth, or house tech table

Recording:
2 Tascam TASSCDR200 Solid State and CD Digital Audio Recorder
Both recorders are rack mounted in a mobile SKB rack with a Furman power conditioner and can be transported for mobile recording. Rack also contains (2) XLR-F to 1/4” cables (2) XLR Y cables to split inputs to both recorders. A console is needed to complete the package. See console inventory.

Microphone Inventory:
Moore Theater Inventory:
9 Shure UR4D Dual channel wireless receivers
18 Shure UR1 Wireless body packs
6 Shure UR2/Beta 87A Wireless handheld microphones
18 Sennheiser MKE2 Gold Dot Omni lavalier (beige cable & head)
12 Countryman E6 Earset microphones

Older wireless system possibly available:
2 Sennheiser MKE-2 Red Dot Omni lavalier
4 Sennheiser MKE-2 Omni lavalier

Approximately 70+ microphones shared with our concert hall, Spaulding Auditorium, possibly available for use in the Moore. Please confirm with Production Manager.

Microphone Inventory:
2 ADK 3 Zigma CHI-LOL-47’s with coupled transformers (HA-FX)
2 ADK 3 Zigma CHI-LOL-SD-C’s with coupled transformers
2 AKG C-414ULS Condenser
2 AKG C-568EB Condenser “shotgun”
4 AKG CHM 21 Cardioid
6 AKG C-460B Condenser
6 AKG CK-61 Cardioid capsule
2 AKG VR-62 40” angled extension tube
2 AKG CK-62 Omni capsule
<table>
<thead>
<tr>
<th>Brand</th>
<th>Model/Description</th>
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<tr>
<td>AKG</td>
<td>D 112 Dynamic Cardioid</td>
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<tr>
<td>ATM</td>
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<tr>
<td>BBE</td>
<td>4000 Planar Wave transducer</td>
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<tr>
<td>Beyer</td>
<td>M-88 Dynamic Hyper cardioid</td>
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<tr>
<td>Countryman</td>
<td>E-6 Omni Iso Max headset mic</td>
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<tr>
<td>Crown</td>
<td>PCC-160 Boundary mic</td>
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<tr>
<td>Crown</td>
<td>PZM-30 Pressure zone mic</td>
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<td>Crown</td>
<td>SASS-P Stereo PZM mic</td>
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<td>DPA</td>
<td>4061IMK - Pre-polarized Omni Miniature Condenser</td>
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<tr>
<td>DPA</td>
<td>d:vote 4099B Microphone for Bass with XLR Adapter</td>
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<tr>
<td>DPA</td>
<td>d:vote 4099C Microphone for Cello with XLR Adapter</td>
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<tr>
<td>RCA</td>
<td>77-DX Classic ribbon</td>
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<td>Schatten</td>
<td>P2 Piano pickup w/DI preamp</td>
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<td>Sennheiser</td>
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<td>Beta 58 Dynamic Super cardioid</td>
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<td>SM 58 Dynamic</td>
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<td>Beta 57 Dynamic Super cardioid</td>
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<tr>
<td>Shure</td>
<td>SM 57 Dynamic Cardioid</td>
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<td>Shure</td>
<td>SM 81 Cardioid Condenser</td>
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<td>Shure</td>
<td>Beta 87A Super cardioid Condenser</td>
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<td>Shure</td>
<td>SM 91A Condenser floor mic</td>
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<td>Shure</td>
<td>Beta 98/S Super cardioid Condenser</td>
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<td>Shure</td>
<td>ULXD4Q Quad channel wireless receivers H50 band</td>
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<td>ULXD2/Beta 87A Wireless handheld microphones</td>
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<td>Countryman</td>
<td>Type 85 Active direct boxes</td>
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<td>IT-1 Isolation transformers</td>
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<td>Radial</td>
<td>AV-2 Stereo DI</td>
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<td>Director Passive direct box</td>
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<td>PCDI Stereo DI</td>
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<tr>
<td>Blackdog</td>
<td>USB-DI Stereo DI (USB)</td>
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<tr>
<td>Radial</td>
<td>SB-1 Active Direct Box</td>
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</table>
**Projection / Video**

**Projectors**:  
Christie WU12K-M WUXGA 3DLP Projector (with lamp upgrade to 14k)  
- Brightness: 14000 lumens center  
- Resolution: 1920x1200 (16:10)  
- Lens in-house stock: choose from 3 below  
- Inputs: 1x RGBHV/Component (Analog 5BNC), 1x DVI (Dual-link)  
- Video Decoder Input Card: SD inputs (4BNC--Composite, SVideo, component, RBG)  
- DMX512 Interface Card  
- Ceiling Mount plate

Christie HD10k-M 1080 HD 3DLP Projector (with lamp upgrade to 14k)  
- Brightness: 13500 lumens center  
- Resolution: 1920x1080 (16:9)  
- Lens in-house stock: choose from 3 below  
- Inputs: 1x Component/RGBHV (3/5 BNC), 1x DVI-I (HDCP compliant)

Christie Lens Options  
- Lens Opt1: ILS 2.8-4.5:1 SX+/2.6-4.1:1 HD .95” Zoom Lens  
- Lens Opt2: ILS 1.25-1.6SX+/1.16-1.49HD Zoom Lens  
- Lens Opt3: ILS 0.73:1SX+/0.67:1HD Fixed Short Throw Lens

Panasonic PT-D7700U-K Projector  
- Brightness: 7000 lumens center  
- Resolution: 1400x1050 (4:3 SXGA+)  
- Lens Opt1: ET-D75LE1 (1.5-2.0:1 zoom)  
- Lens Opt2: ET-D75LE3 (3.0-5.0:1 zoom)  
- Inputs: Composite BNC, S-Video, Component/RGBHV (3/5 BNC), VGA

Panasonic PT-D3500U Projector  
- Brightness: 3500 lumens center  
- Resolution: 1024x768 (4:3 XGA)  
- Lens: Standard zoom 1.0-1:36:1  
- Inputs: DVI, Component/RGBHV (3/5 BNC), VGA, Composite RCA, SVideo

**Check with production manager for availability on all projection equipment**

**Screens**:  
Da-Lite Fastfold 16’ x 9’ frame with Front & Rear surface, legs and skirting  
Ultimate Fastfold 10’6” x 14’ frame with Front & Rear surface, legs and skirting  
Ultimate Fastfold  5’ x 7’ frame with Front & Rear surface, legs and skirting

**Control Hardware and Software**:  
- iMac with Q-Lab  
- Mac or PC playback for PowerPoint or video available upon request**
**Switcher/Scaler**

Analog Way Pulse 300

Inputs: 4x VGA Multiformat Analog, 2x DVI-I Multiformat Analog/Digital, 2x SD/HD-SDI

Program Outputs: 1x VGA, 1x DVI-I (both outputs at same resolution)

Preview Outputs: 1x VGA, 1x DVI-I (both outputs at same resolution)

Input resolution: SDTV, EDTV, HDTV, Computer up to 2k

Output resolution: RGBHV, HDTV up to 1080p, Computer up to 2k

Features: Logo store, PIP, seamless transitions (fade, cut, wipe)

Preview and Program monitors included

**Other:**

300' DVI-DVI fiberoptic extender

1x2 DVI distribution amp

**Check with production manager for availability**
Theater Layout