Technical Specifications for Spaulding Auditorium

HOPKINS CENTER FOR THE ARTS
DARTMOUTH COLLEGE
HANOVER, NH

Updated July 24, 2013
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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:** Jeremy Mattsson (603) 646-9368
- **Production Dept. Business Asst:** Dave Lloyd (603) 646-1661
- **Programming Assistant:** Karen Henderson (603) 646-3453
- **Senior Events Manager:** Mary Beaulieu (603) 646-3476
- **Events Manager:** Brandea L. Turner (603) 646-0972

Addresses

**Mail / FedEx / UPS Shipping Address**
6041 Lower Level Wilson Hall
4 East Wheelock St
Hanover NH 03755

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

**Large Freight / Dock Address**
10 Lebanon St
Hanover NH 03755

Directions to the Spaulding Loading Dock

The dock area is easily identifiable by the five large colored panels attached to the side of the building.

**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 left (you will now be on Lebanon Street) towards the Business District. Travel on Lebanon Street for about 1/2 mile, the Spaulding Auditorium loading dock on your right immediately after the Black Family Visual Arts Center, across from Rosey Jekes clothing store.

**From Interstate 91:**
Take exit 13 and follow signs to Hanover and Dartmouth College. At the second light which is the intersection of Main and E. Wheelock, take a right and proceed down Main Street. At the next light take a left onto Lebanon St. and then proceed down to the black iron gates on the left which is directly across from Rosey Jekes clothing store on the right.

Best address to use find the backstage entrance/loading dock on a GPS or Google Map is:
10 Lebanon St
Hanover NH 03755
General Information

Reference pictures can be viewed here.

Seating Capacity:
(900) All one level, no balcony. Seats are non-movable.

Dressing Rooms:
2 Dressing Rooms available
One on each side of stage at stage level, access directly to stage and backstage crossover
Trapezoid-shaped roughly 18' x 12', narrowing to 8' x 12'
Both dressing rooms contain one sink, one toilet, mirrors, and well lit make-up tables-seats 6
Proper heating is maintained
Stage right dressing room also contains stage manager's desk and audio equipment racks with a
curtain partition separating the areas

Backstage hallway:
Dimensions are 57' long by 7 feet wide. This is also the backstage crossover and Green Room.

Wardrobe:
1 Washer and 1 Dryer are available in an adjacent building.
A second set of washer and dryer may be available in adjacent building with pre-arrangement.
There is no designated wardrobe room and space in this venue is very confined backstage.

Theater Access
Equipment to Spaulding via loading dock that leads to a freight elevator.
Auditorium is 1 floor up. Personnel access via side door and stairs to backstage.

Loading Door: 5'-7"W x 7'H
Freight Elevator: 7'6"H (**6'-9" opening) x 6'W x 10'-2"D
Truck Access: 2 trucks can fit side by side. This is also the location to park tour buses.
Trailer Storage: At Thompson Ice Arena parking lot across campus (10 min walk)
Loading Dock: Dock is at truck level.

Storage Space:
Limited space available down one floor on the Loading Dock.

Labor:
Four full time IATSE Production staff supplemented by IATSE local #919 temporary stagehands and
trained work-study students.
Stage Information

Description:
Spaulding Auditorium is a concert hall with an elevated stage 2’-0” above audience level. The stage is in a trapezoid formation, walled with teak to create a permanent acoustical shell. The upstage wall of teak panels can be opened to expose a red velour curtain or movie screen behind the curtain. The ceiling consists of permanent acoustical panels angled to “push” sound out into the house. The walls in the house are of brick and plaster. Access to the stage from SL and SR are via 1 standard sized single door and 1 standard sized double door SL and 2 standard sized doors SR, directly out of the dressing rooms either side.

Stage Dimensions and Distances:
- Width (upstage): 40’
- Width (downstage): 56’ (at widest point of trapezoid)
- Depth (at center): 25’ (with temporary forestage installed add 7’)
- Height (upstage): 21’-1” (to angled acoustic panels)
- Height (downstage): 26’-8” (to angled acoustic panels)
- Distance from Projection Booth to DS edge of Stage: 68’
- Distance from Projection Booth to Screen: 94’

Stage Floor:
Black marine linoleum over plywood, suspended on structural steel - appropriate for bare feet. NO screws, bolts, or attachments permitted to stage floor.

Masking:
- 4 portable 8’ x 8’ black duvetyne book flats available to create wings.
- 4 portable 8’ x 8’ teak colored (to match stage walls) luan book flats available to create wings.
No suspended masking available in this venue due to ceiling structure and load limits.

Upstage back wall options:
- Teak acoustical panels
- Red Velour Curtain with fullness
- White Movie Screen 29’-5” wide x 16’-10” high

Due to structural limitations, there is NO RIGGING available in Spaulding Auditorium.
**Electrics/Lighting System**

Dimmers:  
138 2.4kw ETC Sensor dimmers, all pre-assigned to lights/circuits in the rep plot

Lighting Console:  
1 ETC Ion with a 2x20 fader wing  
Location: front of house; in projection booth  
2 ETC Net2 DMX Nodes available backstage right and in center catwalk

Lighting Software Programs:  
Lightwright 5  
Vectorworks 2011 Spotlight Educational

Company Switches:  
*We require a facility electrician to tie into these power sources.  
Location: Off Stage Right (within 50’ of center stage)  
Services: 1 - 200A/3 phase panel - isolated for sound  
1 - 400A/3 phase panel - for lighting

Shore Power/Tour Bus Services on Loading Dock:  
2 - 50A AC receptacles plus a potable water spigot.

House Lights:  
House lights are fully dimmable and are controlled either backstage right via a Unison control station  
or from the light booth via DMX through the lighting console.

Lighting Positions and Inventory:  
Lights are hung in a semi-permanent rep hang due to the ceiling structure of acoustical panels.  
Specials may be repurposed. All focusing is done from above via a catwalk system.

Lighting Rep hang instrumentation consists of:  
(24) ETC Source Four Pars  
(83) ETC Source Four ERS fixture body  
(19) 19 degree lens  
(51) 26 degree lens  
(28) 36 degree lens  
(2) Altman 6x9 ERS  
(2) Altman 6x12 ERS  
(9) Altman 6x16 ERS  
(1) Altman Zoom  
(2) Lycian Midget HP followspots

PDF of Spaulding light plot is available here.
**Projection / Video**

**Description:**
Spaulding Auditorium has a digital video projector, a digital cinema projector, and (2) 35mm film projectors owned and operated by the Dartmouth Film Society. It may be possible, but not guaranteed, to use these projectors with permission from the Hopkins Center Film’s Director or Manager.

**Digital Video Projector**
- **Model:** Christie HD10k-M
- **Brightness:** 10000 lumen
- **Resolution:** HD (1080p) or SXGA+, WUXGA, or WXGA
- **Lens:** ILS 2.8-4.5:1 SX+/2.6-4.1:1 HD .95” (Part 118-100114-01)
- **Inputs:** 1x RGBHV/Component (3/4/5 BNC), 1x VGA, 1x DVI-I (HDCP compliant)

**Digital Cinema Projector**
- **Model:** Barco DP2k-23B
- **Brightness:** 24000 lumen, 4000w Xenon lamp
- **Resolution:** 2k (2048x1080)
- **Lens:** Motorized Zoom 2.80-5.50:1
- **Inputs:** 2x DVI-D, 1x HDMI

**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**

**Film Projectors**
- *Must be operated by a Hopkins Center Film Projectionist*
- (2) Kinoton PK60D 35mm projectors- reel changeover, no platter system

**Screen**
- Permanently installed Movie Screen 29’-5” wide x 16’-10” high
- **Distance:** Booth to screen - 94’
- Motorized side masking curtain

**Video Playback:**
- 1 DVD player - Pioneer
- 1 BluRay player - Samsung
- Mac or PC playback for PowerPoint or video available upon request
  (contact production manager)

**Video – Stage Monitoring**
The stage is monitored by a remote-controlled video camera located in the catwalks near front of house, with a monitor and controller at the Stage Manager’s panel stage right. There are also 2 video monitors with audio in the backstage hallway and in the SL Dressing Room.
Sound System

Description:
Spaulding Auditorium is fitted with a complete state-of-the-art sound system. It features Meyer Sound Labs, Midas, Yamaha, Crest and JBL components which have been carefully designed to complement the hall's natural acoustics. It is both subtle and unobtrusive for minimal reinforcement, yet contains sufficient headroom for powerful full-scale audio production.

Mix position is app. 80 ft. from the stage edge at the back of the hall on the house left side. There is no balcony.

Console:
Midas Pro2 front-of-house digital console

Recording Decks and Playback Devices:
1. Sony CDP-2700 CD player
2. HHB 830 plus CD recorder
1. Tascam CD recorder
1. Alesis CD recorder
1. Panasonic SV-4100 DAT Recorder
1. RPM-TB48 - 48 channel AES50 I/O
2. Tascam TASSCDR200 SS-CDR200 Solid State and CD Digital Audio Recorder (Check with PM for availability)

With prior inquiry and approval, Spaulding events may be recorded from the console to CD or computer.

Legacy Outboard Rack/Signal Processing:
Effects and EQ are handled by the Midas Pro2, but the following legacy analog equipment is stock
1. Klark Teknik DN-300 single channel 1/3 octave eq.
1. Klark Teknik DN-360 dual channel 1/3 octave eq.
2. DBX-160A compressors
4. DBX dual channel 266 compressor/limiter w/gate
1. DBX F900A rack with 9 DBX model 903 comp/limiters or 9 DBX model 904 noise gates
3. Yamaha Pro R-3 digital reverbs
1. Lexicon PCM-70 digital effects processor
1. TC Electronics D-TWO delay

Amplifiers/Processing:
Meyer Galileo 616 processor for Meyer M’elodie Line Array and front fill system

Speakers - Mains:
2. Meyer M’elodie Line Arrays flown SL and SR consisting of 7 powered speakers each
2. Meyer 600HP subs for floor use
5. Meyer UPM-1P self-powered front fill speakers on lip of stage, portable

Line & Connectors: (Ample mic and speaker cables are available.)
2. Midas DL251 Digital Snakes
1. 24x4 Mobile 125’ Multi/fanout
5. 9-pair sub snakes in various lengths
### Microphone Inventory:

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<th>Quantity</th>
<th>Brand</th>
<th>Model</th>
<th>Type</th>
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<tr>
<td>2</td>
<td>AKG</td>
<td>C-414ULS</td>
<td>Condenser</td>
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<td>C-568EB</td>
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<td>40” angled extension tube</td>
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<tr>
<td>2</td>
<td>AKG</td>
<td>CK-62</td>
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<td>D 112</td>
<td>Dynamic Cardioid</td>
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<td>25</td>
<td>Planar Wave transducer</td>
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<td>BBE</td>
<td>4000</td>
<td>Dynamic Hypercardioid</td>
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<td>Countryman</td>
<td>E-6</td>
<td>Omni Iso Max headset mic</td>
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<tr>
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<td>Crown</td>
<td>PCC-160</td>
<td>Boundary mic</td>
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<td>Crown</td>
<td>PZM-30</td>
<td>Pressure zone mic</td>
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<td>Stereo PZM mic</td>
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<td>ND-757</td>
<td>Dynamic Supercardioid</td>
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<td>77-DX</td>
<td>Classic ribbon</td>
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<td>Sennheiser</td>
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<td>Sennheiser</td>
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<td>Gold Dot</td>
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<td>Shure</td>
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<td>9</td>
<td>Shure</td>
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<td>Shure</td>
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<td>Mini cardioid condenser</td>
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<td>Shure</td>
<td>KSM 44</td>
<td>Condenser</td>
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<td>Shure</td>
<td>U14D</td>
<td>Dual channel wireless receivers</td>
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<td>6</td>
<td>Shure</td>
<td>U14D</td>
<td>Wireless body packs</td>
</tr>
<tr>
<td>6</td>
<td>Shure</td>
<td>Beta 87A</td>
<td>Wireless handheld</td>
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<tr>
<td>2</td>
<td>Sennheiser</td>
<td>MKE-2</td>
<td>Red Dot</td>
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<tr>
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<td>Sennheiser</td>
<td>MKE-2</td>
<td>Omni lavaliere</td>
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<td>Schatten</td>
<td>P2</td>
<td>Piano pickup w/DI preamp</td>
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<td>Type 85</td>
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<td>Isolation transformers</td>
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### Moore Theater Mic Inventory (available via special arrangement):

<table>
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<th>Brand</th>
<th>Model</th>
<th>Description</th>
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<tr>
<td>18</td>
<td>Sennheiser</td>
<td>MKE2 Gold Dot</td>
<td>Omni lavaliere (beige cable &amp; head)</td>
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<tr>
<td>9</td>
<td>Shure</td>
<td>UR14D</td>
<td>Dual channel wireless receivers</td>
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<tr>
<td>18</td>
<td>Shure</td>
<td>UR14D</td>
<td>Wireless body packs</td>
</tr>
<tr>
<td>2*</td>
<td>Shure</td>
<td>U2/Beta 87A-UA</td>
<td>Wireless handheld (+6 from Theater Dept)</td>
</tr>
</tbody>
</table>
Monitor System:
Console:
  Midas Pro2-C digital monitor console

Monitor Speakers:
  2  Meyer MJF212A
  6  OPA 15” Active powered wedges
  4  OPA 15” Passive speakers

Legacy Monitor System:
  10 JBL 2-way (15”/1”) bi-amped, 45 degree monitors
  4  Klark-Teknik DN-360 dual channel 1/3 octave eq’s
  1  Klark-Teknik DN-300 single channel 1/3 octave eq
  5  BSS FDS-360 active two way stereo, three or four way mono crossovers
  5  Crest 4000
  5  Crest 7001
  1  QSC MX 1500

Additional Speakers/Amps:
  6  EAW KF300 full range speakers
  2  EAW SB250 subwoofers
  1  EAW MX300 processor; Tri-amped with:
      1  Crest 4801
      1  Crest 7001
      1  Crest 8001

Additional Mixing Consoles:
  Yamaha LS9-16
  Mackie 1202
  Mackie 24.8

Backline
  Blackstar twin 12” speakers with the Jimi Hendricks to Eric Clapton switch
  Guitar Amp - Roland JC120
  Bass Amp - Gallien-Krueger 400RB
  Bass Cabinet - Hartke XL series 410 bass module
  Steinway New York B - 7’ grand piano
  Steinway New York D - 9’ grand piano
  Yamaha Absolute Maple Drum Kit
      (2x Bass, 4x Tom, 3x snare options)
  Zildijan Cymbals
      (hi hat, splash 2x crash, 2x china, 3x ride)

Headset System/Backstage Monitoring System:
  Type:  Clear Com CS222 4 input, 2 channel base station
  Base Station Location:  At Stage Manager’s desk in SR Dressing Room
  Headset Locations:  Backstage L and R at well doors into audience, Backstage L and R in Dressing Room off left and Dressing Room/Stage Manager’s Desk off right, Projection and Lighting booths, Sound Console, Organ Loft, Room behind the Screen. Additional locations can be run as needed.
  God mic paging system from the Stage Manager’s base station can be heard in the 2 Dressing Rooms and in the backstage hallway.
Stage and Seating Layout