



Technical Specifications for Spaulding Auditorium

**Hopkins Center for the Arts
Dartmouth College
Hanover, NH**

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Contact Info

Hopkins Center Staff

- Production Office: hop.production@dartmouth.edu (603) 646-1661
- Programming Office: (603) 646-2120
- Front of House Office: (603) 646-0972
- Facilities Office: (603) 646-3493

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 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 I-89 Exit 18 to Route 120 N**
- Follow **Route 120 north for 4 miles**
- **Bear left on Lebanon St** at the traffic light adjacent to the Mobil Station
- **Continue about 1/2 mile**
- Spaulding Auditorium loading **dock is on your right** immediately after the Black Family Visual Arts Center, across from “Rosey Jekes” clothing store.



From Interstate 91:

- **Take I-91 Exit 13** and follow signs to **Hanover** and Dartmouth College.
- Take a **right at the second light onto Main St.**
- Take a **left at the next light onto Lebanon St.**
- Spaulding Auditorium **dock will be on your left** just past the corner of the building directly across from “Rosey Jekes” clothing store.

Best address to use find the backstage entrance/loading dock on [Google Maps](#) is:

12 Lebanon St
Hanover NH 03755

General Venue Information

Reference pictures can be viewed here.

Seating Capacity:

792 All one level, no balcony. Seats are non-movable.

753 w/ forestage installed

8 ADA (@ 2 chairs per location)

Transfer arms- 25

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 the 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, 8000 lb max

Truck Access: Dock depth to sidewalk is 38'

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 3' above street level.

Venue has one dock plate and one ramp (7' long)

Venue does NOT have a pallet jack or forklift

*****Please make arrangements in advance if your freight cannot be hand carried or rolled***

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 Details

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:

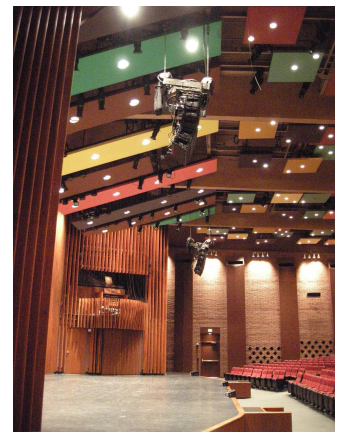
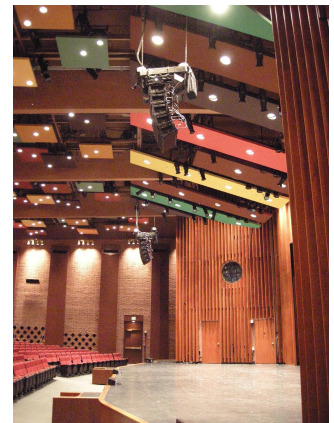
Black marine linoleum over plywood, suspended on structural steel – appropriate for bare feet.
NO screws, bolts, or attachments permitted to stage floor.

Masking:

- (4) portable 8' x 8' black duvetyn book flats available to create wings
- (2) portable 8' x 8' teak colored (to match stage walls) book flats available to create wings
- (2) 20'w x 10'h pipe and drape sections (6 uprights, 4 crossbars)

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 29'6" wide x 15'6" high



Rigging

Due to structural limitations, there is NO RIGGING allowed in Spaulding Auditorium.

Lighting/Electronics System and Equipment

Dimmers:

138 ETC Sensor dimmers (2.4kw), dimmer per circuit, all pre-assigned to rep plot fixtures

Lighting Console:

1 ETC Ion with a 2x20 fader wing

Location: front of house; in projection booth

ETC Net3 DMX Nodes available backstage and in catwalks

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 Paradigm control station or from the light booth via DMX through the lighting console.

Lighting Positions and Inventory:

Lights are hung in a 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:

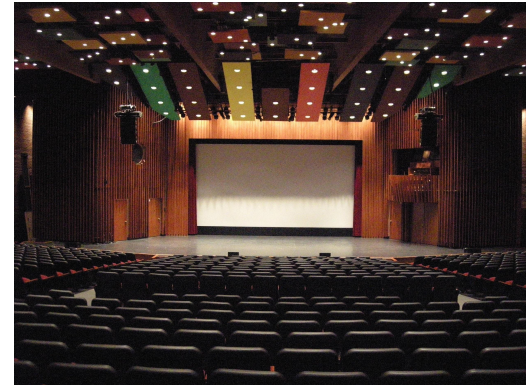
24	ETC Source Four Pars
89	ETC Source Four ERS fixture body
17	19 degree lens
46	26 degree lens
26	36 degree lens
3	Martin Mac 550
2	Lycian Midget HP followspots

PDF of Spaulding light plot is available here.

Projection/Video System and Equipment

Screen

Permanently installed Movie Screen (32'x16')
 Masked Proj Surface: 29'-6" wide x 15'-6" high
 Bottom masking: 1'-8" up from ground
 Distance: Booth to screen – 94'
 Motorized side masking curtain
 No top/bottom masking for scope projection



Digital Cinema Projector

Model:	Barco DP2k-23B
Brightness:	24500 lumen, 4000w Xenon lamp
Resolution:	2k (2048x1080)
Lens:	Motorized Zoom 2.80-5.50:1
Inputs:	2x DVI-D, 1x HDMI
Cinema Playback:	Dolby DoReMi DCP-2K
Cinema Audio:	5.1 via Dolby DMA8, CP650

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:	HDTV up to 1080p, Computer up to 2k
Features:	Logo store, PIP, seamless transitions (fade, cut, wipe)

Preview and Program monitors included

Video Playback:

1	BluRay player – Oppo
1	BluRay player – Samsung
1	iMac with Q-Lab, VLC, Keynote, Powerpoint software**
1	Macbook with Q-Lab, VLC, Keynote, Powerpoint software **
1	PC laptop with VLC and Powerpoint software **

**Contact production manager in advance to confirm computer availability.

35mm Film Projectors**

(2) Kinoton PK60D 35mm projectors- reel changeover, no platter system

**May only be used with prior approval of Hopkins Center Film Department

**Must be operated by a Hopkins Center Film Projectionist

Video – Stage Monitoring

The stage is monitored by a video camera located in front of house, with a monitor the Stage Manager's panel stage right. There are also 2 video monitors with audio in the backstage hallway and one in the SL Dressing Room.

There is no infrared video capability.

Sound System and Equipment

Description:

Spaulding Auditorium features Meyer Sound Labs, Midas, Yamaha, Powersoft and OPA 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.

Front of House Console:

Midas Pro2 digital console

Recording Decks and Playback Devices:

1	Sony CDP-2700 CD player
1	Tascam SS-CDR200 CD recorder (FOH rack)
1	Tascam SS-CDR200 CD recorder (portable)
1	Alesis CD recorder
1	RPM-TB48 - 48 channel AES50 I/O

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 in 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
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
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1	24x4 Mobile 125' Mult/fanout
5	9-pair sub snakes in various lengths
1	32 ch analog splitter

Monitor System:

Console:

Midas Pro2-C digital monitor console

Amplifiers:

2	Powersoft M50Q 4-channel amplifiers
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Monitor Speakers:

4	OPA 15" ACTIVE powered speakers
8	OPA 15" NPM passive wedges

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

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 (*+9 from Theater Dept)	
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	
1	AKG	D 112	Dynamic Cardioid	
3	Audix	ADX60	Boundary Condenser	
2	Audix	ADX51	Condenser	
2	Audix	D2	Dynamic	
2	Audix	D4	Dynamic	
2	Audix	D6	Dynamic	
1	Audix	i5	Dynamic	
1	Audio-technica	Pro 35	Cardioid Condenser	
1	BBE	4000	Planar Wave transducer	

4	Beyer	M-88	Dynamic Hypercardioid	
2*	Countryman	E-6	Omni Iso Max headset mic (*+20 from Theater Dept)	
4	Crown	PCC-160	Boundary mic	
4	Crown	PZM-30	Pressure zone mic	
2	Crown	SASS-P	Stereo PZM mic	
3	DPA	4061IMK	Pre-polarized Omni Miniature Condenser	
1	DPA	4099B	Microphone for Bass with XLR Adapter	
1	DPA	4099C	Microphone for Cello with XLR Adapter	
1	EV	ND-757	Dynamic Supercardioid	
3	EV	RE-20	Dynamic	
4	Neumann	KM184	Condenser	
2	RCA	77-DX	Classic ribbon	
8	Sennheiser	MD-421	Dynamic Cardioid	
3*	Sennheiser	MKE-2 Gold Dot	Omni lavalier – BEIGE (* +28 from Theater Dept)	
3*	Sennheiser	MKE-2 Gold Dot	Omni lavalier – BLACK (* +3 from Theater Dept)	
2	Sennheiser	e609	Dynamic	
1	Schatten	P2	Piano pickup w/DI preamp	
5	Shure	Beta 58	Dynamic Supercardioid	
9	Shure	SM 58	Dynamic	
4	Shure	Beta 57	Dynamic Supercardioid	
6	Shure	SM 57	Dynamic Cardioid	
6	Shure	SM 81	Cardioid Condenser	
4	Shure	Beta 87A	Supercardioid Condenser	
4	Shure	SM 91A	Condenser floor mic	
2	Shure	Beta 98/S	Supercardioid Condenser	
5	Shure	SM 98A	Mini cardioid condenser	
1	Shure	SM 98H/C	Mini cardioid condenser	
2	Shure	KSM 44	Condenser	
1	Shure	ULXD	Wireless receivers (H50 band)	
2				
1	Shure	ULXD1	Wireless body packs	
2				
1	Shure	ULXD2	Wireless handheld	
2				
6	Shure	**SM58	**Capsule for wireless HH	
6	Shure	**Beta 87A	**Capsule for wireless HH	
2	Shure	**KSM9	**Capsule for wireless HH	
1	Shure	565SD	Dynamic	

DI's

8	Countryman	Type 85	Active direct box		
4	Proco	IT-1	Isolation transformers		
1	Radial	AV-2	Stereo DI		
4	Whirlwind	Director	Passive direct box		
2	Whirlwind	PCDI	Stereo DI		
1	Blackdog	USB-DI	Stereo DI (USB)		

Moore Theater Mic Inventory (available via special arrangement):

20	Countryman	E6	Omni Iso headset
28	Sennheiser	MKE2 Gold Dot	Omni lavalier – BEIGE
3	Sennheiser	MKE2 Gold Dot	Omni lavalier – BLACK
2	Sennheiser	MKE Red Dot	Omni lavalier - BLACK
6	Shure	ULXD	Wireless receivers H50 band
6	Shure	ULXD1	Wireless body packs (TA4F connector)
6	Shure	ULXD2/Beta 87A	Wireless handheld

In-Ear Monitor System:

WIRELESS					
2	Shure	PSM900	Wireless Transmitter/Belt pack		
WIRED					
8	Shure	P9HW	Cabled belt pack		
ACCESSORIES					
8	Shure	SE215	Earbuds		
2	Shure	SE425	Earbuds		
2	Sennheiser	HD280	Headphones		

Backline

Guitar Amp	
1	Blackstar twin 12" speakers with the Jimi Hendricks to Eric Clapton switch
1	Bass Amp – Ampeg SVT 4Pro 300
1	Bass Cabinet – Hartke XL series 410 bass module
Keyboards	
1	Nord Electro 4D
1	Yamaha M08
1	Kurzweil Sp88
Keyboard Amps	
1	Roland KC100
1	Roland KC350
1	Roland KC550
Pianos	
1	Steinway B – 7' grand piano
1	Steinway Hamburg D -9' grand Piano
Drums	
Yamaha Absolute Maple Drum Kit	
2	Bass
5	Tom
3	Snare
Cymbals	
1	Hi hat
1	Splash

2	Crash
2	China
3	Ride

*Check With PM for availability and specifics

Communication Systems

Headset System/Com

Type: Clear Com MS-702 4 input, 2 channel base station

Clear Com Tempest 900 4-channel wireless Intercom w/ 3 beltpacks

Base Station Location: At Stage Manager's desk in SR Dressing Room

Typical Cabled Headset Locations:

Backstage L/R at well doors into audience

SL Dressing Room

SR Dressing Room

Light board (Booth)

Sound Console (House)

Spot 1 (Booth)

Projection/Spot 2 (Booth)

Organ Loft

Equipment Closet (backstage center behind movie 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.

Backstage Monitor system

House Mic - ART Tube MP - House mic preamp

Rolls RM424 - Four Zone Mixer

(3) Rolls RA235 - 35W Stereo Amplifier

(6) Bose 102 - Surface Mount Speaker (backstage monitors)

(1) Yamaha MSP3 - Monitor Speaker (booth monitor)

ADA Presentation Systems

Listen Technologies FM transmitters

Assistive Listening System – beltpacks w/ earphones and neckloops

Self-contained descriptive audio system w/narrator microphone

Visual Description System – supports DCP cinema content only

Rearview Closed Caption System – supports DCP cinema content only

Stage and Seating Layout

