



RICHARDSON AUDITORIUM

TECHNICAL SPECIFICATIONS

Seating Capacity: 832 seats

- Orchestra and Circle: 323 seats
 - Includes 8 ADA wheelchair accessible platforms with companion seats
- Balcony: 509 seats
 - 459 full view seats
 - 50 obstructed view seats

Stage Specifications

- Approximate stage dimensions: (please see stage diagram for reference)
 - Full stage (elevator at stage-level): 70'-0" wide, 30'-0" deep at centerline
 - Reduced stage (elevator at house-Level): 70'-0" wide, 22'-0" deep at center-line
 - The downstage 8'-0" of the stage is an elevator that has multiple configurations. These are stage level, house level (with additional seating available) and orchestra pit level.
 - The upstage portion of the stage contains two levels of permanent marble steps. In addition to these are two additional removable levels of faux-marble step platforms.
 - The upstage wall of the hall contains three 19th century Tiffany glass mosaics depicting Homer's Iliad and Odyssey. Above the three mosaics is the Tiffany glass "Rose Window", depicting an allegorical study of Genius, Knowledge, Study, and Fame.
 - Main Acoustic Reflector
 - Upstage Acoustic Reflector

Backstage Specifications

- Stage doors exit directly into the ambulatory/lobby
- Note: There is no backstage crossover
- Dressing room space is limited, and is located on the basement level (one level below the auditorium)
- One small private room is guaranteed for artist / soloist, 1-2 additional rooms may be available depending on the event
- Orchestra pit area underneath stage is available for instrument case and wardrobe storage

Stage Equipment

- (7) Acoustic Reflector Panels
- (1) Lectern
- (2) Conductor Podiums
- Orchestra Chairs
 - 88 Regular Chairs
 - 10 Cello Chairs
 - 18 Specialty Height Chairs (various)
- (84) Music Stands
- (4) Soft Piano Benches - 3 standard, 1 tall
- (1) 8'x8' Drum rug
- (1) 6'x6' Drum rug
- (1) Full Black Velour tie-on Drapery
- Risers
 - (6) 4' x 8'
 - (4) 4' x 6'
 - (2) 4' x 4'
 - (40) 8" legs
 - (20) 16" legs
 - (20) 24" legs

Musical Equipment

- (2) Steinway Model D Concert Grand Pianos

Video

- Newtek Tricaster TC1 Production Video System
- (3) Birddog p400 PTZ Cameras
- (1) Birddog PTZ Keyboard Camera Controller
- (1) Birddog HDMI 4k NDI Encoder
- (4) Birddog Flex Out NDI Decoders (permanently installed)
- (2) Birddog Flex IN NDI Encoders
- (2) Asus 24" Low-Profile confidence monitors
- (1) LG 50" Monitor
- NDI Video Network

Projection

- Panasonic PT-MZ16KU 3LCD Laser Projector (16,000 Lumens)
 - Resolution: 1920x1080 pixels
- 11.5'x20' hung front projection screen (16:9 aspect ratio)
- 3x20' hung supertitle screen

Communication

- ClearCom FreeSpeak II with 12 wireless beltpacks

Lighting

- Rep Plot Has full stage, color-changing static Front wash (LED), Full color-changing LED Side and Back wash. Down Light on Main and Rear Reflectors are Full color changing LED. Some moving Specials are available.
- Rep Plot paperwork and circuit information available upon request.
- No Follow Spot is available in-house.
- Fixtures are permanently hung and will not be moved.
- (14) Specials and Spares can be refocused.
- Control: ETC Ion Console (12 Universes) with Universal Fader Wing 2 x 20
 - Tracking Backup: ETC Nomad with Universal Fader Wing 1x20 @ Back-of-House
- Dimming: ETC Sensor 3
 - Electronic dimming in all theatrical fixtures
 - ETC Relay cards
- Specific Circuit and Rep Plot information available upon request
- Rep Plot
 - (14) ADB Actoris PAR LED (Main Reflector)
 - (4) ETC Source 4 Lustr X8 36°
 - (18) ETC Source 4 Lustr X8 26°
 - (72) ETC Source 4 Lustr x8 19°
 - (12) ETC Lustr X8 (4 on Rear Reflector)
 - (12) ETC D60 Lustr+
 - (2) Apollo Right Arm
 - (3) Mac Aura
 - (4) Elation Proteus Lucius LED Profiles
 - (5) Elation Fuze LED Profiles
 - (4) Clay Paky Mini B moving Wash (Rear Reflector)
- Stock Inventory
 - (7) ETC Source 4 Lustr X8 50°
 - (11) ETC Source 4 Lustr X8 36°
 - (12) ETC Source 4 Lustr X8 26°
 - (9) ETC Source 4 Lustr X8 19°
 - (6) ADB Actoris Par LED

Audio System

- FOH Audio Console: Allen & Heath dLive DM0 w/ S5000 Surface
 - Capable of 64in x 24 out via Analog i/o
 - Cable of 64x64 via Dante network
- Allen & Heath AHM-64 Matrix Mixer/Signal Processor
- Multi-channel Dante Audio Network
- Main PA System: D&B Audiotechnik T10 Line Array System
 - (7) cabinets per side w. (2) Point Source Balcony side-fills
 - (4) Y-Series Subwoofers (2 Orchestra Level, 2 Balcony Level)
 - (2) D80 4 - Channel Amplifiers
- Monitoring:
 - (6) RCF NX12-SMA Active stage monitors

- (2) RCF NX10-SMA Active Stage Monitors
- (2) Meyer UPM-1 Active speakers

Microphones

Wired (Sound Reinforcement)	(4) Shure SM57 (4) Shure SM58 (3) Shure Beta58 (1) Shure Beta 52a (2) AKG – 460 (3) AudioTechnica – AE3000 (1) Audix D6 (1) Audix D1 (2) Audix D2 (1) Audix D4 (4) Sennheiser E835 (2) Neumann KMS 105 (6) Sennheiser MD421 (2) Sennheiser e906 (6) DPA 4099 (Violin, Cello, bass and piano mounts) (2) EV RE-20 (4) Neumann KM184 - (2 cardioid matched pairs)
Floor/Boundary	(4) AudioTechnica – AT849 – stereo condenser
Direct Boxes	(2) Countryman Type 85 Active DI Box (2) Radial J48 Active DI Box (4) Radial AV 2 Stereo DI Box (3) Radial AV 1 Mono DI Box (4) Whirlwind IMP Mono DI Box (1) Radial USB Stereo DI Box
Wireless	(12) Shure Axient Digital Receivers (12) Shure Axient Digital AD2 SM58 wireless handheld mics (12) Shure Axient Digital AD1 wireless belt packs (2) Shure Axient Digital AD8 Plug-on Transmitter (8) Shure over-ear cardioid lavaliers (6) Shure mini- cardioid lavaliers (2) Shure headset microphones (6) Shure MX185 Lavaliers (2) Shure KSM9 wireless handheld capsules
Lectern	(1) AudioTechnica AT857L gooseneck microphone (2) Sennheiser MZH3042 gooseneck microphones w/ ME-35 cardioid capsules

Recording Equipment

Recording Systems	(1) ProTools Ultimate workstation Avid HD Omni system 32 in x 32 out (3) Millennia HD-V3D 8 ch mic-pre (1) RME Digiface Dante 64x64 (Dante/Madi) USB Audio Interface (1) Tascam DA6400 64-track hard disk recorder
DAW Control	(1) SSL UF8 (1) SSL UF1 (1) SSL UC1
Summing Interface	(1) SSL – Sigma 16 ch mono / 32 ch stereo
Backup Recorders	2-Track DAW – Soundforge 16 – Stereo MBOX MINI (24bit-48KHz) 2-Track Tascam SD-20M Solid-State Recorder (16bit-44.1kHz)
Monitor	Dynaudio Air 6
Microphones - condensers (Recording)	(12) Schoeps CMC5/6 Available Capsules: -(2) MK2 omni -(4) MK4 cardioid -(4) MK22 wide-cardioid -(4) MK41 hyper-cardioid -(2) MK8 figure-eight capsules (2) Neumann – TLM103 – cardioid (matched pair) (1) Royer Labs – R-122 – +48v figure-eight ribbon (2) AKG C414 B-XLS multi-pattern (matched pair) (2) AKG C414 – XLS multi-pattern (matched pair)