



## Technical Specifications

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King Center House Technical Specifications

### **Maxwell C. King Center for the Performing Arts Melbourne, Florida 32935**

(A Direct Support Organization of Eastern Florida State College)

Technical Director: 321-433-5822 Fax: 321/433-5817

#### **TECHNICAL INFORMATION**

(Subject to change without notice)

#### **GENERAL INFORMATION**

**AUDITORIUM CAPACITY:**

Orchestra Level:

720

(Continental Seating)                      Orchestra Pit:                      122  
Grand Tier:                                      1,174  
**TOTAL:    2,016**  
(Accessible Seating: 74 included in above numbers)

**STAGE DIMENSIONS:**                      Backstage side wall to side wall, 120'; Proscenium to back wall, 50'  
Proscenium opening, 27' high by 56' wide; Grid height: 67' 10"  
Height of clear space in wings (below gallery), 31'6"  
Depth of apron, 2'6" without orchestra pit; 21'6" with raised pit

**ORCHESTRA PIT:**                              18' wide by 51' long, screw jack elevator; Travel distance, 10'; Travel speed, 2.5 FPM

**STAGE EQUIPMENT:**                      SEE ATTACHED FLY SCHEDULE  
Complete portable Wenger orchestra shell

**LOADING DOCK:**                              Covered, standard loading dock at rear of stage; Two (2) semi-truck capacity, 20' x 10' dock door  
Ample parking is available for trucks and busses

## **FACILITY DIMENSIONS**

**STAGE:**    115' wide by 50' deep (5,750 sq. ft.); 67' grid; *Proscenium opening: 27' high by 55'6" wide*

**LOBBY:**    Main floor: 97' by 30' (2,910 sq ft); Mezzanine: 97' by 30' (1,649 sq ft); Exhibit area: 53' by 24' (1,272 sq ft)

**ORCHESTRA PIT:**                              56' by 19' (1,064 sq ft)

**BLACK BOX THEATRE:**                      73' by 45' (3,285 sq ft), 18' ceiling

**REHEARSAL HALL:**                              40' by 40' (1,600 sq ft), 25' ceiling (General use - PA168)

**REHEARSAL ROOM:**                              48' by 38' (1,824 sq ft), 18' ceiling (Choral use - PA160)

**REHEARSAL ROOM:**                              50' by 48' (2,400 sq ft), 18' ceiling (Instrumental use - PA158)

**DANCE STUDIO #1:**                              42' by 38' (1,596 sq ft), 15' ceiling - PA198A

**DANCE STUDIO #2:**                              28' by 25' (700 sq ft), 15' ceiling - PA198B

**SHOP AND SUPPORT:**                      Large scene shop with 10' by 10' entrance to stage; Costume and wardrobe maintenance facility available upon request to include: 2 washers, 2 dryers, ironing board, irons, and steamer

**DRESSING ROOMS:**                              2 chorus rooms with lavatories and showers (hot and cold water)  
6 "star" dressing rooms with lavatory and shower

**GREEN ROOM:**                                      Large green room to serve performers and crew. Equipped with refrigerator, lounge furniture, stage audio and video monitors

## **LIGHTING SYSTEM AND EQUIPMENT**

### **MAIN THEATER**

DIMMING AND CONTROL: Control board: Grand MA2 Light ETC ION (ver. 2.3.2) with wing 20 x 20(Available)

Dimmers: 253 – 2.4k ETC Sensor  
Circuits: 253 (dimmer per circuit system)

LIGHTING FIXTURES: 30 – S4-10 degree ellipsoidal (FOH)  
8 – S4-19 degree ellipsoidal  
78 – S4-26 degree ellipsoidal  
58 – S4-36 degree ellipsoidal  
18 – Strand 6”x 9” ellipsoidal  
18 – Strand 6”x 12” ellipsoidal  
35 – Strand 6” x 16” ellipsoidal  
27 – Altman 6” x 9” ellipsoidal (750 watts)  
20 – Altman 6” x 12” ellipsoidal (1000 watts)  
70 – S4 – Par 64  
10 – ACL Bars  
2 – 9 light units  
26 – Chauvet Par Quad (LED)  
10 – Martin Mac Quantum Profile (movers)  
2 – 40’ double hung lighting with 120 Source 4 Par 64  
4 – CM 1-ton capacity chain motors with 75’ chain  
5 – Strand 3-cell far cyc (1K)  
4 – Lycian 1.2kw Superstar Followspots  
8 – 10’ pipe and base booms

..... **ROAD COMPANY PROVISIONS:**

AUDIO: 1 - 200 amp 3 pole disconnect (isolated earth ground) with cam connectors

LIGHTING: 1 - 400 amp 3 pole disconnect company switch with cam connectors

1 - 600 amp 3 pole disconnect company switch

BUS POWER: 3 – Bay each with 2 pole 250 volt, 50 amp receptacles

All electrical service is stage right, approximately 25’ from proscenium. The building is equipped with one upright electric man lift, having a working height of up to 42’.

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**FLY SYSTEM:**

Arbor Capacity 1,500 lbs.  
Arbor Capacity (Electrics) 2,000 lbs.  
Batten low trim 4’ off deck  
Length of travel 61’  
Height to bottom of grid 67’  
Height to pin rail 38’6”

**SOUND SYSTEM AND EQUIPMENT**

SPEAKERS: JBL Vertec VT4888 Line Array (FOH)

JBL Vertec VT4822 Subs  
JBL PD5322/95 Center Fill (FOH)  
JBL SRX715 Stage Fills  
JBL VRX932 Balcony Delay  
JBL MS26 Stage Center fill  
JBL 4870 Auxiliary Deck Fills  
JBL 4845 Auxiliary Subs

AMPLIFIERS: Crown I-Tech Series (Stereo array FOH)  
Crown CT Series (Front fills, Center fills, Balcony Delay)  
QSC 1500 (Auxiliary Deck Fills and Subs)

SPEAKER DISTRIBUTION  
CONTROL: Lake Technologies Contour MESA Speaker Distribution  
System with wireless tablet

CONSOLE: DiGiCo SD8 console with WAVES multi-effect capability

PROCESSING: 1 – Yamaha SPX 2000  
4 – Yamaha SPX 990  
1 – TCM M5000  
1 – TCM M3000  
1 – TC 2290 Dynamic Digital Delay  
1 – TC D2 Multi-tap Delay  
8 channel BSS compressor/limiter  
8 channel BSS DPR 504  
6 channel DBX 166 stereo compressor/limiter

**Monitor System (16 discrete mixes available)**

Console: Yamaha PM5D console  
Ramsa WR-SX1 (52 inputs, 20 mixes)

Wedge Speakers: 18 – JBL Concert Series Model 4802 (2 way)  
2 – 12" speakers  
1 – 1" horn

Side Fills: 4 – JBL Concert Series Model 4825 (2 way)  
1 – 12" speaker  
1 – 1" horn

Microphones: 16-Shure SM58; 10-Shure SM57; 6-Shure SM81; 4-Shure SM91; 9-Sennheiser 421;  
2-Shure SM87; 2-AKG 414; 1-Audix D6; 7-Audix D7; 3-Audix SC4 condenser  
3 – Audio Technica Goose Neck Podium mic

Wireless: 4-Shure UR124D + Dual Channel Diversity Receiver  
8-Shure UR2 Beta 87c handheld microphones  
8-Shure UR1 wireless body packs

Direct Box: 10 - Countryman Model 85 (Active)

Paging and/or program to dressing rooms, green room and/or front of house

## CURTAIN SCHEDULE

SIZE	COLOR	MATERIAL	QUANTITY	TYPE
32'H x 14'W	Black	Velour	6 pairs	Leg
16'H x 70'W	Black	Velour	4	Border
28'H x 70'W	Black	Velour	1	Backdrop
28'H x 60'W	Black	Velour	1	Traveler
30'H x 60'W	Green	Velour	1	Act Curtain
30'H x 60'W	Sky Blue	Cloth	1	Cyclorama
30'H x 60'W	Black	Sharks Tooth	1	Scrim

Ceiling height: 18' floor to grid (tension wire rope grid)

Direct entrance into scene shop

**DIMMING AND CONTROL:**

Control board: ETC INSIGHT III with Channels and submasters  
-Circuits: 96

**LIGHTING FIXTURES:**

- 18 – Strand 8" Fresnel (1K)
- 25 – Strand 6" Fresnel (750 w)
- 15 – Strand 4.5" x 6.5" ellipsoidal (1K)
- 20 – Scoops (1K)
- 26 – Strand Lekolite ellipsoidal (400 watts) variable focus

**EFFECTS:**

- Yamaha SPX 900 multi-effects
- Yamaha SPX 1000 multi-effects

**CROSSOVER:**

- BSS model FDS 360 (FOH)
- BSS model FDS 310 (monitor sends)

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## STUDIO THEATRE VENUE

GENERAL: Capacity: 250+/- flexible seating  
Dimensions: 45' by 73' (3255 sq ft)



### House Audio

#### Main Speakers

Deck JBL Concert Series Model 4870/One Per Side  
Deck JBL Concert Series Auxiliary Sub Model 4845/One Per Side  
Flown JBL Concert Series Model 4850/Two Per Side

#### All Crossovers for Main speakers

JBL Model M552  
Front Fill  
JBL Marquis Series Model MS26/Four Across Front

#### All AMPS for Mains

QSA model 1500/One Per Cabinet

#### Monitor Speakers

JBL Concert Series  
8 Wedges Model 4802 A (12x12x2)  
4 In House Wedge Mixes

#### All Crossovers for Monitors

JBL model M552  
All AMPS QSX 1500/One Per Cabinet

#### FOH Console

Midas M32 Digital Console  
Inputs 32 XLR, 8 AUX  
Outputs 16 LXR, 1 AES

#### Stage Box

Midas DL32 Digital Snake

#### \*Please Note\*

Monitor are MIXED from F.O.H  
We DO NOT provide a separate monitor console.

A full complement of MIC Stands  
XLR Cables (Belden/Switchcraft)  
D.I. Box's (Countryman, Radial)

#### Microphones

Including, but not limited to: Shore SM58, SM57, SM81, SM91, Beta52  
Audix D2, D4, D6, SCX One, OM5  
Sennheiser 421  
AKG 414

8 Shore UR2 Wireless Hand Held with Beta 87 Capsules

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**TECHNICAL OPERATIONS DIRECTOR:**  
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