

# **The Grand Opera House Mainstage Technical Specifications**

## **Lighting Control**

ETC Expression 3

House light control from booth and stage.

382 dimmer per circuit (2.4KW)

Stage and F.O.H. electrical circuits available on request.

## **Power Available**

Stage:

3 company switches - upstage left.

Each panel - 400 amps. per leg - 3 phase w/ neutral.

Sound hook-up with isolated ground.

Booth:

2 switches, 3 phase, 100 amps. per leg

Shorepower:

1-40 amp 208 volt supply.

## **Lighting Accessories**

All pipe battens are @ 55 ft. long

5 standard electrics onstage, 30 circuits each 5 drop boxes each side, 6 circuits per box, see accompanying "stage electrical circuits" for number of circuits.

4 light ladders, 4 rungs each, 6 ft. high x 3 ft. wide to hang from batten pipes.

8 booms at 16 ft. 1 1/2" I.D.

8 booms at 10 ft. 1 1/2" I.D.

8 - 50 lb. Boombases

80 sidearms with C-clamps and single T-fittings

## **Front of House Instrumentation**

Ceiling Catwalk Cove - 52 - 10° source four.

Balcony Box Booms - 1st and 2nd positions, left and right each side has 6 - 10° source four.

3rd position left and right has 2 - 10° source four and 2 - 6" x 12" (axial Strand Century for curtain warmers only.)

## **Followspots**

2 - Strong Xenon Super Troopers, 1600 watts, with 6 color boomerangs.

Followspot booth located center rear of hall.

## **Lamp Inventory**

8-50° Source 4 575W  
52-36° Source 4 575W  
91-26° Source 4 575W  
40-19° Source 4 575W  
80-10° Source 4 575W \*permanently hung F.O.H.\*  
20-6" Fresnel 750W Strand Century  
30-8" Fresnel 1500W Strand Century  
20-10" Fresnel 2000W Colortran  
60 - Source 4 Pars 575W w/ all lens configuration  
60 - Par 64 1000W w/ large lamp inventory  
7 - Overhead 3-circuit Kleigl T-3 strips 500 w/cell, 3 cells/circuit  
7 - Groundrow 3-circuit Kleigl T-3 strips 500 w/cell, 3 cells/circuit  
2 - Super-Trooper Followspots 1600W Xenon  
4 - Mini-10's 1000W  
8 - Par 20's 150W  
2 - 3" Fresnel 150W

## **Lamp Accessories**

30 - Drop-in Iris'  
60 - Pattern Holders  
20 - Top Hats for 19°, 26°, 36°, 50°  
15 - 6" Top Hats  
20 - 6" Barn Doors  
20 - Par 64 Barn Doors  
10 - 8" Top Hats  
20 - 8" Fresnel Barn Doors  
16 - 10" Fresnel Barn Doors  
Gel frames for all lamps

## **Soft Goods**

6 sets black velour legs 25 ft. high x 12 ft. wide  
6 borders black velour 6 ft. high x 55 ft. wide  
2 sets black velour travellers 25 ft. high x 55 ft. wide  
1 black sharkstooth scrim 28 ft. high x 55 ft. long  
1 white filled scrim 28 ft. high x 55 ft. long  
1 white bounce 25 ft. high x 55 ft. long  
House curtain - travels on 2nd line set  
Grand Teaser hung on 1st pipe set

## **Orchestra Shell (Reflective Panel)**

Side:

8 hard legs 6 ft. wide x 27 ft. high, black velour one side, off-white canvas other

side. When set, they provide 4 wings each side. They roll on overhead tracking.

Overhead:

4 panels hinged to pitch, white canvas covered, hung from standard set pipes and line tabs. With orchestra shell in place maximum dimension is 45 ft. wide x 40 ft. deep.

### **Dressing Facilities**

2 large choral dressing rooms

1 smaller dressing room

2 star dressing rooms with toilet and shower facilities

1 Green Room equipped with table, chairs, refrigerator and deep sink

Shower and toilet facilities adjacent to all of above

Each dressing room and hallways equipped with monitor speakers for program feed and paging.

Washer, dryer, steamers, irons, and ironing boards available.

### **Stage Dimensions**

Depth - 43 ft. from apron to upstage wall (this includes a 12 ft. deep thrust, elevator lift to from orchestra pit)

Width - 70 ft.

30 ft. from curtain to upstage wall

Proscenium Arch opening 38 ft. wide x 25 ft. high

Added Wing Space:

a 14' wide by 22' high door

centered on the mainstage left wall

opens to a 14' by 32' area

(which is centered on the door as well)

with an additional 7' by 10' hydraulic lift from street to stage level

### **16MM Movie Projector**

EIKI EX-4000P with 550 watt Xenon lamp

### **35MM Movie Projectors**

2 Simplex E-7's with 1600 watt Xenon lamp

### **Audio Equipment**

Microphones & D.I.s by:

AKG, BBE, Beyer, Countryman, Crown, Sennheiser and Shure  
8 - Shure UHF wireless w/ handheld & lavalier mics

Consoles:

Allen & Heath ML5000 [FOH/MON] 40 inputs,  
8 VCA, 8 GRP, 16 AUX, LCR Allen & Heath GL2000 [FOH/MON] 24 inputs,  
4 GRP, 6 AUX, LR/Mono  
Mackie 1642, 16 inputs, 4 GRP, 4 AUX, L/R  
Soundcraft K2, 40 inputs, 8 GRP, 8 AUX,  
LR/Mono. Located in the back of the balcony, in a booth with  
a large sliding window.

FX / Processing:

1 - TC Electronics D2 digital delay  
1 - Symetrix 606 digital delay  
1 - Yamaha SPX 90 digital FX unit  
1 - Klark-Teknik DN410 dual 5 band parametric EQ  
1 - Lexicon PCM 91 Reverb  
2 - Yamaha SPX 990 digital FX units  
2 - Drawmer DS404 four channel gates  
4 - Drawmer DL251 dual comp/limiters  
Klark-Teknik DN360 EQ & JBL DSC 260 digital controllers on house systems

Playback and Recording:

1 - Tascam DA302 dual DAT deck  
1 - Tascam 302 dual cassette deck  
1 - Otari MX50/50 BII 1/2 track 1/4" reel-to-reel  
1 - Sony CD2700 CD player  
1 - Denon DNT 620 CD/Cassette combo  
1 - TASCAM MD 301 MKII mini disk player/recorder

Amplification:

JBL Pro MPA 1100 & 750 [house speakers]  
Carver PM 1.5 & QSC Powerlight [stage monitors]

Speakers:

Flown center cluster

3 - JBL Venue Series 3215-6

[3 way system, 15"/10"/1.5"]

Left/Right stacks

2 per side - JBL Venue Series 3218-6

[3 way system, 18"/10"/1.5"]

Speakers can be assigned as stereo left/right  
with mono center cluster

Stage monitors

2 - Bose 402 full range speakers

4 - Bose 802 full range speakers

2 - Community RS 327i [15"/2"/1"]

6 - E-V FM 1202, two-way speakers [12"/1"]

17- E-V T221M monitors [12" / 2" - biamped]

4 - Turbosound TMS4 [18" / 10" / 1"]

Intercom / Paging Systems:

2 channel Clear-Com system with 4 wireless belt packs assigned to Ch.B. Headset stations are located throughout all performance and production areas. Paging and program feed to all dressing rooms and production areas.

Assistive Listening System:

FM program transmission to receivers with headset transducers.

**Backline**

Percussion:

Yamaha Recording Custom Drum kit

[22" & 18" bass, 14 floor, 16,13,12,10,8 rack]

Latin Percussion Bongos, Timbales, Djembe

Tumba, Conga, Quinto & Chimes with stands

Bass Amplifiers:

Ampeg 115 combo

G-K 800RB

Bass Cabinets:

Hartke 115, 210, 410

SWR 118

Guitar Amplifiers:

'65 Fender Twin Reverb

G-K 250ML

Roland JC120

Keyboards:

Korg Triton Studio 88

Korg Triton LE61

Kurzeil PC88mx

Yamaha SY55

Roland KC500, KC100 amplifiers

**Stage Floor**

The deck is a resilient wood floor. Because of its basketweave support, we do not allow any nails, lags or screws into the surface. We have a Marley vinyl dance floor: 5 rolls 6 ft. wide to cover 38 ft. acting area. Black one side, white on the other.

For more information, please contact Rick Neidig, Director of Production:

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