



TECHNICAL SPECIFICATIONS

LIVE ARTS MATTERS.



ADDRESS

171 TOWN CENTRE BOULEVARD

MARKHAM, ONTARIO

CANADA, L3R 8G5

SEATING CAPACITY

TOTAL: 527

ORCHESTRA: 414

BALCONY: 113

STAGING

STAGE DIMENSIONS

Proscenium Opening	39'-2" wide by 20'-1" high to border
Proscenium to Cyclorama	36'-0" deep
Stage Floor to underside of Catwalks	22'-6" high
On Stage Width	43'-0"
Stage Right Wing	13'-9" by 42'-9"
Stage Left Wing	13'-9" by 42'-9"
Apron	47'-9" wide, 8'-0" to 10'-0" deep

STAGE DRAPES

Main Drape: Burnt Orange Velour Traveler, manual operation from stage right

Legs: Four a side with German Masking in Black Velour on tracks (Runs Upstage–Downstage)

Borders: Eight pieces of full stage width Black Velour, dead hung

Travelers: Four full stage width and height in Black Velour, manual operation from stage right

Cyclorama: Rosco Twin White PVC, dead hung, not movable

Scrim: Black Sharkstooth located 8' downstage of Cyc

White Sharkstooth located 4" downstage of Cyc

Both operated manually from stage right

STAGE FLOOR

Sprung floor with a black vinyl surface

No screws, Lags or nails permitted, any damage will be at user's expense!

Rubber stoppers required on any and all orchestral instruments with picks

No traps or elevators in stage

Orchestra Pit in downstage apron area with eight removable panels

DANCE FLOOR

8 x Rolls of Rosco Adagio 5'x 40' each roll

6 x Rolls of Harlequin dance floor, black/white 6'6" x 40' each roll

ORCHESTRA PIT – **ADDITIONAL LABOUR REQUIRED FOR OPENING THE PIT!**

29'-6" wide by 17'-4" deep

9'-2" high to stage floor

36 x cushioned orchestra chairs

26 x Wenger Music stands

20 x Music Stand Lights

ORCHESTRA EQUIPMENT

70 x Black Wenger Music Stands

25 x Mighty Bright Encore LED Music Stand Lights

6 x E-String Six Outlet AC extension cord - 23' Music stand light cables

120 x Black Wenger Nota Premier Musicians Chairs

Variety of Black Stools

14 x Wenger Acoustical Shells

PIANOS

4' Yamaha Upright Rehearsal Piano

9' Steinway Concert Grand Piano

Yamaha Baby Grand Piano (Located in the lobby)

Tuning arranged through the Theatre only

RISERS

12 @ 4' x 8' Wenger Stage Tek Risers

6 @ 4' x 6' Wenger Stage Tek Risers

2 @ 4' x 4' Wenger Stage Tek Risers (1 is the conductors podium in the orchestra pit)

8", 12", 16", 20", 24" Legs available for above risers

8", 16", and 24" black skirting for above Stage Tek risers

4 sets of 12" roll-a-deck wheel systems for above Stage Tek risers

4 sets of 16" roll-a-deck wheel systems for above Stage Tek risers

1 @ 6' x 6' Carpeted rolling Riser

7 x Wenger Signature 3 Step Choral Risers

PIPE AND DRAPE

14 x Base plates 10 sections of 12' x 15' black drape

14 x 7' - 12' Uprights 4 sections of 12' x 10' black drape

12 x telescopic 7', 10', 12' Cross pipes 2 sections of 8' x 5' black drape

PRODUCTION SURROUND

7 x Base plates

7 x 3' - 5' Uprights

6 x telescopic 5', 8' Cross pipes

6 sections of 5' x 15' black drape

TABLES

3 x 4' Black tables 8 x 5' Round tables

6 x 6' Black tables 6 x Cafe tables at 29" high

6 x 8' Black tables 12 x Cruiser tables at 42" high

2 x 6' Grey tables Black Table Covers as needed

LOADING DOCK

Doors are 7'-9" wide by 8'-7" high

Outside ground level to dock height is 3'-6"

1 x 4' wide portable dock plate

Pentalift hydraulic dock leveler

RIGGING

WINCH PIPES

Controlled from Stage right

5 x Motorized Winch Battens

Pipe One	WLL: 1000lbs	7'-6" Upstage of Proscenium Line
Pipe Two	WLL: 700lbs	16'-0 Upstage of Proscenium Line
Pipe Three	WLL: 1000lbs	25'-0 Upstage of Proscenium Line
Pipe Four	WLL: 1000lbs	33'-6" Upstage of Proscenium Line
Pipe Five	WLL: 1000lbs	36'-0 Upstage of Proscenium Line

OTHER RIGGING EQUIPMENT AND INFORMATION

Please Note: Markham Theatre is not a fly house, we do not have the equipment or the height required to fly set pieces in and out from the catwalks.

Catwalk system above stage and audience

Scenery may be dead hung from catwalks

4 @ ½ ton Chain Falls with Chain Bags

6 @ 10' x 12" Box Truss

2 @ 7' x 12" Box Truss

2 @ 5' x 12" Box Truss

5 @ 24" Truss Bases

Selection of span sets, shackles, wire rope and cheeseboroughs

Selection of 2" pipe in varying lengths

DRESSING ROOMS & BACKSTAGE FACILITIES

DRESSING ROOMS

All Dressing Rooms equipped with bathroom, including toilets and showers along with well-lit and mirrored dressing areas.

Dressing Room One – On stage level, fits 2 people **(NO shower in this dressing room)**

Dressing Room Two – On second floor, fits 6 people

Dressing Room Three – On second floor, fits 6 people

Dressing Room Four – On second floor, fits 5 people

Dressing Room Five – On second floor, fits 17 people

Dressing Room Six – On second floor, fits 17 people

WARDROBE MAINTENANCE

A wardrobe room located on second floor between Dressing Room Four and Five equipped with iron, ironing board, steamer, washer, dryer and sink.

GREEN ROOM

Located on the stage level, equipped with kitchen, dining area, sitting area, television (built in DVD player, video feed from stage, **no cable**), phone lines and Wi-Fi.

REHEARSAL HALL - **NO SCREWS, LAGS OR NAILS PERMITTED, ANY DAMAGE WILL BE AT USERS EXPENSE!**

42'-3" x 46'-0" x 24'11"high

Located on stage level with entrance to crossover hallway with access to stage.

Rehearsal Hall is equipped with a full wall of mirrors and ballet bar and a sprung floor. A 7.5' by 13.5' front projection motorized screen is located on south wall.

There is a television above main entrance door and beside the door to the cross over with video feed from stage camera, **no cable**.

PROJECTION & VIDEO

PROJECTORS

1 x Christie Digital HD14K-M Roadster 12500 Lumen 3-Chip DLP Projector in rigging cage

1 x Christie Digital-118-100110-01 ILS 0.67:1 Ultra wide Fixed Lens

1 x Christie Digital-118-100111-01 1.16-1.49:1 Short throw zoom lens, for M Series WX, DS+, HD, WU

1 x Projection Design F32 WUXGA 5700 lumens with hanging hardware

1 x Projection Design EN 12 Ultra Wide Angle Fixed Lens 0.79:1

1 x Projection Design EN 13 Wide Angle Zoom Lens 1.24:1 – 1.60:1

1 x NEC NP3250 5000 Lumens with hanging hardware

SCREENS

32' x 18' Motorized seamless rear projection screen hung directly downstage of proscenium

9' x 12' Motorized front projection screen hung under the 3rd onstage catwalk

9' x 16' Free standing, fast fold screen, rear and front projection surfaces available

7.5' x 13.5' Motorized front projection screen located on south wall of Rehearsal Hall

VIDEO EQUIPMENT

1 x Folsom PDS 902 digital switcher, 8 in, 2 out

1 x Apple Mac Mini loaded with – Playback Pro, and Microsoft Office suite

1 x Marshall Duel Screen Preview Monitor

3 x Acer V246HQL 24" 1920x1080 LCD Monitor

1 x HHB UDP89 High-End Professional DVD Player

1 x Denon Pro-DBP-2012UDCIP Blu Ray Player

3 x Extron-DA4 HD 4K Four Output HDMI Distribution Amplifier

3 x Extron-DTP HDMI 4K 330 TX Long Distance HDMI Twisted Pair Transmitter

3 x Extron-DTP HDMI 4K 330 RX Long Distance HDMI Twisted Pair Receiver

3 x Black Magic Design-CONVMBHS2 Mini Converter - HDMI to SDI 2

2 x Black Magic Design-CONVMBSH Mini Converter - SDI to HDMI

2 x Black Magic Design-CONVMSDIDA Mini Converter - SDI Distribution

1 x 3-Tiered AV Cart

2 x NEC 32" LED LCD monitors

2 x Littlite-LW-18-LED 18 Inch Gooseneck Lampset LED Desk Light Assembly

4 x Littlite-L-18-LED-BLUE 18 Inch LED Lampset -Blue LED Version

2 x Littlite-HTC High Tension Clip for Littlite Lampsets

2 x Littlite-CWB Weighted Base for Littlite Lampsets

Selection of HD-SDI, HDMI, CAT5, CAT6, DVI, VGA, BNC, RCA cables and adaptors

LIGHTING

We have a complete pre hung house plot for your use; it may be altered for your event but must be returned to the house hang before the end of your rental.

CONSOLE

GrandMA2 full size which has 8,192 parameters, 30 motorized executor faders, four touchscreens, communicates with Shownet over cat 5.

MA2 on PC command wing with Lenovo IdeaCentre AIO 520S (23") Super-slim, borderless 23" All-in-One PC with 256Gb SSD, 23" FHD (1920 x 1080) IPS Multitouch with wireless mouse and keyboard.

Strand Light Palette VL16

Strand 200 Series 24/48

DIMMERS AND CIRCUITS

366 @ 2.4kW capacity controlled by DMX

30 @ 2.4kW capacity non-dim relays controlled by DMX

LIGHTING INSTRUMENTS

39 @ 19° Source 4 Leko	12 @ Chroma Q Colourforce 72 for Cyc and G-Row
30 @ 26° Source 4 Leko	10 @ Chroma Q Colourforce 12
80 @ 36° Source 4 Leko	24 @ Chauvet Colordash Par hex 12
10 @ 50° Source 4 Leko	12 x Chauvet WELL-FITX6 IP 65 Wireless LED Wash - LED Source: 4 x 10W RGBW Quad Colour - Beam Angle: 11° - Illuminance: 800 lux@ 5m,
10 @ 23-50° Strand Leko Lite	
30 @ 19° Strand Leko Lite	4 @ 3" Inkie Fresnel
22 @ 26° Strand Leko Lite	2 @ 3 Colour Zip Strip
8 @ 36° Strand Leko Lite	3 @ Robert Juliet Ginger 13.5-23° 2k Tungsten FS
36 @ 6" ETC Parnel	2 @ TMB PR20Lite Blinders
63 @ 7" Source 4 Fresnels	

CONVENTIONAL ACCESORIES

40 @ Gobo Holders for Lekos

54 @ Gobo Holders for Source Fours

12 @ Four Leaf Barn Doors for 7" Fresnels

20 @ Four Leaf Barn Doors for 6" Fresnels

22 @ Strand SL Iris Kits

27 @ Source Four Iris Kits

Wide variety of ROSCO Gel

Large selection of steel gobos

MOVING LIGHTS

16 x GLP Impression Spot One, 400 watt LED colour mixing source

8 x GLP X4s

4 x ROBE DL73 Profile, 800-watt 7 colour led engine

4 x Elation ACL 360 BAR moving head fixture

SPECIAL EFFECTS

1 x MDG M3E High Output fog machine

1 x MDG ATMe High Output Hazer

2 x Le Maitre Versa Fans

1 x Le Maitre Radiance Hazers with DMX Control

2 x Le Maitre G300 Fogger/Hazer, 1 x DMX interface available

2 x Chauvet Vesuvio-II atmosphere effect generator

3 x 12" Mirror Balls

2 x Atomic 3000 Strobe Lights

3 x Elation Black Lights

AUDIO

PA MANAGEMENT

1 x Meyer Galileo 616

3 x APB Dynasonics Mix Switch (1 x Main, 2 x Expanders)

SPEAKER SYSTEM

Centre Cluster: 11 x Meyer Mina Ultra Compact Line-Array Modules

Left/Right: 1 x Meyer UPQ 1P and 1 x Meyer UPQ 2P per side

Front Fill: 5 x Meyer M1D Compact Line Array (These are installed for shows that require them)

Under Fill: 2 x Meyer UP Junior

Subs: 2 x Meyer 700HP Dual 18" subwoofer (1 per side)

CONSOLES

FOH Console: Avid S6L-32D with E6L-112 engine with Madi-192 option card and Local 16 to expand local I/O

Front-of-House position sits at the back of the orchestra seating 50'-3" from edge of apron. Touring Consoles may be set-up in this area as well.

Monitor Console: Avid S6L-32D with E6L-112 engine with Madi-192 option card and Local 16 to expand local I/O
(Monitor position is in DSL wing)

Available I/O racks for above consoles: 1 x Stage 64 loaded with 64 in, 32 out

3 x Stage 32 loaded with 24 in, 8 out (can change configurations if needed)

Booth Console: Avid S6L-24C with E6L-112 Engine with Madi-192 option card

Available I/O racks for Booth console: 3 x Stage 16

There is a booth position on the second floor with sliding glass windows that is 56'-6" from edge of apron.

STAGE MONITOR SYSTEM

12 Channels of Lab Gruppen PLM 10000 Q

Monitors: 4 x EAW SM122

2 x Meyer MSL4

12 x EAW SM200iH

2 x Renkus-Heinz CFX81

2 x Meyer MJF-212A

4 x Behringer B205D

MICROPHONES

Shure:

16 x SM58

7 x SM57

3 x SM81

1 x SM87

1 x SM86

4 x Beta 181C

12 x Beta58

3 x Beta 57

1 x Beta 91

Sennheiser:

6 x E845s

1 x E602

4 x E604

1 x E901

1 x E902

4 x E904

4 x E906

2 x E908

4 x E914

8 x E945

4 x E965

4 x MK4

4 x MD421

2 x MD441

1 x MD521

2 x MD509

4 x MKH416

2 x ME34 Podium capsules

4 x ME36 Podium capsules

9 x I 30 H-C-CA hanging mic kits

Neumann:

4 x KM184

Beyerdynamics:

1 x M88

AKG:

2 x C414

3 x C535

1 x D112

3 x AKG CK31/HM1000 Hanging Mics

DPA:

4 x 4099 with Classic 4 adaptor kit

Superlux:

3 x CM-H8K/U

Crown:

5 x PCC160

BSS:

5 x 116 Active Direct Boxes

Countryman:

8 x Type 10 Active DI

2 x Type 10S Stereo Active DI

Cable Factory:

6 x DI Pro P1 Passive DI

PORTABLE PA SYSTEMS

1 x Allen & Heath QU24 w/ AR2412 stage rack and 300' CAT6 STP snake

1 x Allen & Heath QU-Pac

1 x Soudcraft Gigrac 600

2 x EAW JF26NT

2 x Meyer 500HP Dual 12" Subs

2 x Ultimate Speaker Stand

2 x K&M 213 Crank speaker Stands

2 x Yorkville EXM400 Compact PA system

2 x Bose S1

2 x QSC K10.2

WIRELESS MICROPHONES

6 x Sennheiser EM 2050 Receivers

12 x SKM 2000 XO BK TX with MMD 965-1

12 x SK 2000 Body Pack Transmitter

2 x SKP 2000 Plug-In Transmitter

6 x DPA 4061-B03 Miniature Omni Lav

4 x Countryman E2 Omni Ear Set microphone

10 x MKE2 Gold lav on Provider headsets (can be removed and used as regular lavs)

WIRELESS IEM'S

6 x Sennheiser 2000 Series IEM's

6 x Sennheiser IE4 Ear Buds

1 x A1031-U Antenna

1 x Shure PSM600HW hardwired IEM system

FREQUENCY LIST

In Ear Monitor:

SR 2050 Bw 648.250 MHz
SR 2050 Bw 658.875 MHz
SR 2050 Bw 659.425 MHz
SR 2050 Bw 663.550 MHz
SR 2050 Bw 676.525 MHz
SR 2050 Bw 677.550 MHz

Microphones:

EM 2050 Gw 558.200 MHz
EM 2050 Gw 559.200 MHz
EM 2050 Gw 559.875 MHz
EM 2050 Gw 560.825 MHz
EM 2050 Gw 561.225 MHz
EM 2050 Gw 562.750 MHz
EM 2050 Gw 563.850 MHz
EM 2050 Gw 565.425 MHz
EM 2050 Gw 565.825 MHz
EM 2050 Gw 568.325 MHz
EM 2050 Gw 568.700 MHz
EM 2050 Gw 569.800 MHz

Backup Frequency List:

EM 2050 Gw 572.200 MHz
EM 2050 Gw 573.125 MHz
EM 2050 Gw 574.400 MHz
EM 2050 Gw 575.175 MHz
EM 2050 Gw 577.050 MHz
EM 2050 Gw 587.350 MHz
EM 2050 Gw 589.325 MHz
EM 2050 Gw 589.800 MHz

PLAYBACK AND RECORDING

1 x Tascam CD01U (*Located in the FOH rack for FOH Console*)

4 x Tascam CD500B (*Located in control booth for booth console*)

1 x Tascam CD200i (*Portable*)

1 x Tascam SS-CDR200 (*FOH*)

1 x Tascam SS-R250N (*Booth*)

1 x Tascam DA-6400 with 2 x IF-MA64-BN 64 track hard disk recorder

2 x Lenovo M900 Tiny PC, i7, 8GB, 256SSD – Loaded with Sports Sounds Pro (*1 Located in FOH rack and 1 located in Booth Rack, each with a Roland Quad Capture USB Pre amp*)

ACCESSORIES

Assorted lengths of XLR3, ¼", and NL4/2 audio cables and adaptors, assorted lengths and channel sub-snakes, various microphone stands

INTERCOM AND OTHERS

WIRED COM

1 x Clearcom MS-702 2 Channel Base Station

3 x Clearcom RM-702 2 Channel Speaker Station (*located at FOH Audio console, Booth Audio Console, and Lighting Console*)

2 x Clearcom HB-702 2 Channel Table Station (*located at Booth SM desk and spare unit*)

6 x Clearcom RS-601 Wired Beltpack

WIRELESS COM

1 x Clear-Com-FSII-BASE-II FreeSpeak 4-Channel Base Station

6 x Clear-Com-FSII-TCVR-1.9 FreeSpeak II Transceiver Antenna (1.9GHz)

6 x Clear-Com-FSII-BP19-X4 FreeSpeak II bodypack transceiver (1.9GHz), A4M

6 x Clear-Com-CC-110 Single Ear, Lightweight, High Quality Headset/Microphone, A4F

1 x Clear-Com-AC-60 FreeSpeak II 5-Bay smartcharger for BAT60

6 x Clear-Com-BAT60 FreeSpeak II Lithium polymer rechargeable battery

HEADSETS

4 x Sennheiser HMD-26 Headset

6 x HME HS-15 Headset

8 x Clear-Com CC-110 Headset

BACKLINE

Roland FP-60 digital keyboard

5'6" Five paneled clear Plexiglas Drum Shield

2 @ 24"x 24" Plexi Amplifier Shields

3 x Guitar Stands

2 x X-Frame Keyboard Stand

4 @ 4' x 8' Grey Drum Carpets

2 x Cello end pin straps

1 x Upright bass end pin cup

PROGRAM SOUND & PAGING

Program Sound throughout backstage area, in dressing rooms, rehearsal hall and all hallways, level can be adjusted individually in rooms.

Paging is available DSR, DSL, in the house at centre, and at the Stage Management position in the booth. Paging can be directed to backstage, the lobby or both depending on your needs. The Tempest Wireless Intercom also has a paging button that goes to the backstage only.

Lobby has separate Program Sound system with chimes for ushering the audience in, and can be paged to.