# Complete Portable Sound Reinforcement System

## **Application:**

The E-System 15, featuring two EON15 G2 powered speakers, a Soundcraft E8 sound reinforcement mixer, and two AKG D2000S dynamic hypercardioid microphones, is a complete, integrated sound system intended for a wide range of applications in reinforcement of music and speech.

## **Key Features:**

The E-System 15 is just that—a system. From the top manufacturers in the pro audio industry, each component has been selected to support and complement the others.

# **EON** JBL EON15 G2 Speakers

The second generation of one of the most successful and influential professional speaker systems ever

- ▶ 15" Differential Drive™ low-frequency driver with dual neodymium magnet for light weight and reduced distortion.
- ▶ 1" (throat diameter) JBL compression driver with 1.75" titanium diaphragm and ferro-fluid cooling.
- ➤ 300 watts low-frequency and 100 watts high-frequency (bi-amplified)—actual power delivered to the drivers.
- ▶ Built-in 3-input mixer. One balanced mic/line input, two balanced ¼" phone line-level inputs. Two-band equalization.
- ▶ Balanced loop-through/mix output. "Daisychain" additional EON speakers or send the mixed output to a mixing console.
- ▶ 60° x 90° (nominal) constant directivity horn.
- ➤ Thermomaster® Total Thermal Management System®. A single piece, cast-aluminum baffle integrates woofer frame, horn, and amplifier heat sink. Air movement in the finned ports dissipates heat—no internal or external cooling fans are required.
- Rugged, light-weight, black co-polymer enclosure.
- ▶ Integral 35 mm pole mount receptacle with securing thumb screw.
- ▶ Multi-angle enclosure for front of house or stage monitor application.
- ➤ Tailored dynamic processing protects amplifiers and speakers from being over-driven without producing extreme changes in frequency response as level varies.
- Extended low-frequency performance. Delivers powerful bass to below 40 Hz.





## E8 Mixer

- ▶ 8 mic/line input channels
- ▶ 2 stereo input channels
- ► Three-band channel EQ with variable midfrequency for precise tailoring of the sound
- ▶ Precision, ultra-linear mic pre-amps
- Two auxiliary monitor or effects busses with pre/post settings
- ► True professional +48V phantom power
- Smooth 100 mm faders for precise control of your mix
- Individual channel mute switches so you can mute an input without disturbing your mix
- Internal power supply
- ► Simple rack mounting options (sold separately)



# D2000S Microphones

Rounding out the system is a pair of AKG D2000S handheld, dynamic hypercardioid microphones. These microphones have been selected to do a great job in a variety of applications from speech and vocals to instrument pick up.

## E-System 15 Complete Sound Reinforcement System

A complete sound reinforcement system so good that no one company could build it all. Start wih the second generation of the speaker that started the powered-speaker revolution—the JBL EON15 G2. Then add a Soundcraft E8 mixer with that great British sound and wide range of features. To complete the system, a pair of dynamic, hypercardioid microphones from AKG—the D2000S. Rounding out the system are four 25 ft XLR cables to hook it all together.



## JBL EON15 G2

Freq. Range (-10 dB) 39 Hz - 18 kHz Freq. Response (±3 dB) 42 Hz - 17 kHz Horz. Coverage (-6 dB) 90° Nominal Vert. Coverage (-6 dB) 60° Nominal

Rated Maximum SPL 129 dB, @ 1 m (3.3 ft)

Dimensions (H x W x D) 686 mm x 430 mm x 444 mm

(27 in x 17 in x 17.5 in)

Net Weight 21 kg (46 lb)

LF Driver Integral frame with one 15"

(380 mm) driver, neodymium magnet, 2" Differential Drive

voice coil.

HF Driver JBL 2418H-1 1" (throat diame-

ter) compression driver with 1.75" diameter titanium diaphragm. Ferro-fluid cooled.

Amplifier Power LF 300 watts @ low-frequency

driver impedance.

Amplifier Power HF 100 watts @ high-frequency

driver impedance.

Input 1 Sensitivity -44 dBu to -22 dBu for rated

output (Mic/Line switch in

MIC position)

-12 dBu to +20 dBu for rated output (Mic/Line switch in

LINE position)

Input 2 & 3 Sensitivity -18 dBu to +20 dBu for rated

utput

Output Level +20 dBu (peak), Loop/Mix

switch in MIX position

Output Level +26 dBu (peak), Loop/Mix

switch in MIX position

#### **Audio Connectors**

Input 1 XLR/F, balanced

Loop/Mix Out XLR/M, balanced

EQ High Frequency Shelving,

±15 dB @ 5 Hz

Low Frequency Shelving,

±15 dB @ 120 Hz

Active Crossover Freq. 1.5 kHz

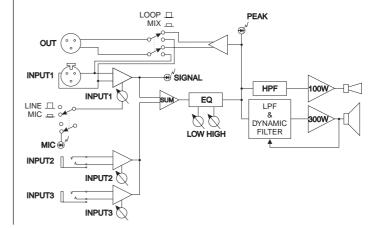
Limiting Low frequency amplifier con-

trolled by dymanic filter to prevent amplifier overload under extreme conditions.

AC Input 110 – 230 VAC, 50 – 60 Hz.,

175 watts rating per UL, detachable IEC power cable.

## EON15 G2 Block Diagram







Input Channels 8 Mic/Line, mono

2 Line, stereo

Aux. Sends 2, globally selectable,

pre/post

Noise (22 Hz-22 kHz measurement bandwidth)

Mic EIN @ max gain,  $150\Omega$ 

source impedance -128 dBu Mix @ max, faders down <-85 dBu

Crosstalk (typ. @ 1 kHz)

Channel mute >96 dB Fader cut-off (rel +10 mark) >96 dB Aux send pot offness >86 dB

Frequency Response

Mic/Line input to any output +/- 0.5 dB 20 Hz -

20 kHz

THD+ Noise

Mic gain 30 dB, -30 dBu input

Mix out, fader max @ 1 kHz  $\,$   $\,$  <0.007%

Input & Output Impedance

 $\begin{array}{ll} \text{Mic Input} & 2.4 k\Omega \\ \text{Line Input} & 11 k\Omega \\ \text{Stereo Input} & 100 k\Omega \\ \text{Outputs} & 75\Omega \end{array}$ 

Input & Output Levels

Mic Input (max. level) +17 dBu
Line Input (max. level) >30 dBu
Stereo Input (max. level) >30 dBu
Mix Input (max. level) >20 dBu
Headphones (@200Ω) 300mW

Size

Weight 6.75 kg (14.88 lb)
Dimensions (HxWxD) 87.58 mm x 426.4 mm x

400.10 mm (3.45 in x 16.79 in x 16.33 in)

Rack Mounting Requires Soundcraft

Part#P-S20001D-01



## AKG D2000S Microphone

Type Dynamic microphone
Frequency Range 70 - 20,000 Hz
Polar Pattern Hypercardioid

Sensitivity @ 1000 Hz 2.0 mV/Pa (-54 dBV re

1V/Pa)

Equivalent noise level 20 dB(A) to DIN 45412

Maximum SPL for 1% (3%) THD 140 dB SPL (150 dB SPL)

Electrical impedance <500 ohms
Recommended load impedance >1200 ohms
Connector 3-pin male XLR
Finish Matte black enamel

Size

 Length:
 181 mm (7.13 in)

 Ø:
 50 mm (1.97 in)

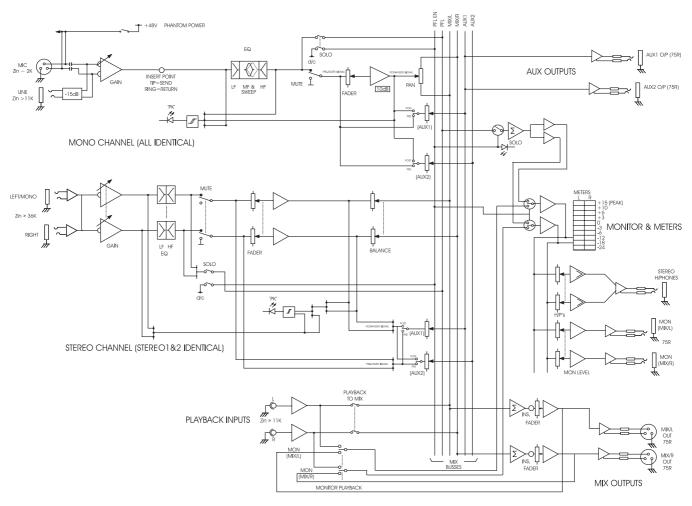
 Weight
 8.1 oz (0.9 lb)

## **System Contents**

<u>Item</u>	<u>Qty</u>
JBL EON15 G2 Speakers	2
Soundcraft E8 Mixer	1
AKG D2000S Microphones	2
25 ft. (7.6m) XLR/M to XLR/F Cables	4
JBL EON15 G2 User Guide	1
Soundcraft E8 User Guide	1

## ► E-System 15 Complete Sound Reinforcement System

#### Soundcraft E8 Block Diagram



### **Available Accessories**

SS2-BK Tripod S <sub>1</sub>	peaker Stand
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ESK15 Suspension Kit for EON15" models (except EON1500)

BRK15 Bracket, adapts EON15" models to OmniMount® brackets

EON15 BAG/N-1 Zippered, plush-lined speaker carrying bag with wheels for EON15" models

EON15 BAG-1 Zippered, plush-lined speaker carrying bag for EON15" models

We are constantly improving our products so these specifications are subject to change without notice.



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