

The Soundweb London BLU-100 represents a premium, open-architecture solution in the form of a highly flexible, cost-effective and scalable package.



**FIXED I/O CONFIGURATION**

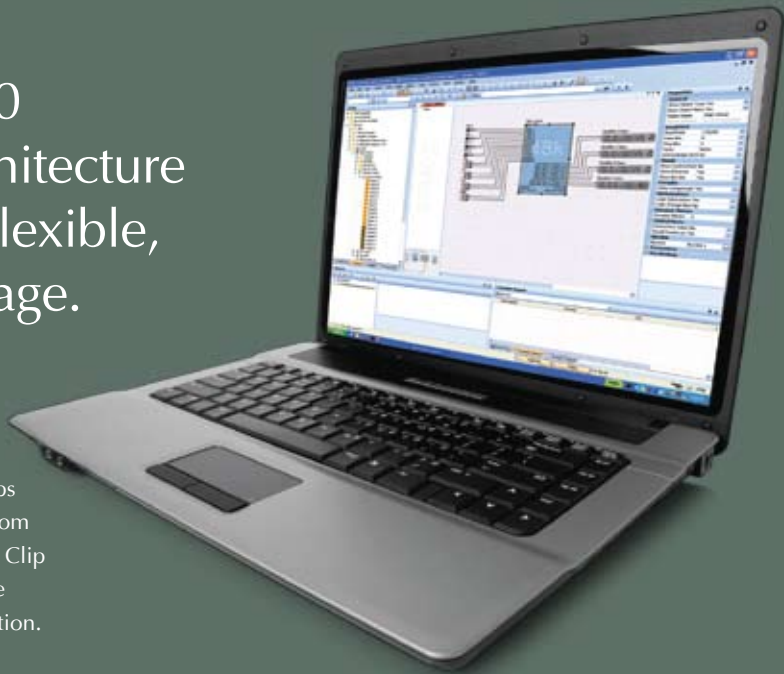
The BLU-100 offers a fixed configuration of 12 inputs and eight outputs. The analog inputs of the BLU-100 provide software configurable gain in 6dB steps up to +48dB per channel and software selectable Phantom Power per channel. Phantom Power, Signal Present and Clip information per channel is easily accessible, without the requirement for a PC, from clear front panel LED indication.

**OPEN-ARCHITECTURE PROCESSING**

The BLU-100 features configurable signal processing and logic processing. The signal path between the inputs and outputs can be completely tailored to an application, and all of the processing objects and logic objects used in larger Soundweb London systems are made available to designers within the BLU-100. The configurable signal processing offered by the BLU-100 is roughly twice that of the Soundweb London BLU-80 and BLU-16 devices.

**DIGITAL AUDIO BUS**

The BLU-100 features a low latency, fault tolerant digital audio bus of 48 channels which uses standard Category 5e cabling giving a distance of 100m between compatible devices. Fiber media converters can be used to increase the distance between devices to over 10km (6.2 miles) using single mode fiber. This 48 channel digital audio bus represents channels 1-48 of the larger 256 channel digital audio bus when integrated with the BLU-800, BLU-320, BLU-160, BLU-120 and BLU-BOB devices. Up to 60 digital audio bus compatible devices can share channels on a single bus.



**CONFIGURATION, CONTROL AND MONITORING**

The BLU-100 is configured, controlled and monitored from HiQnet™ London Architect v3.0 or later. This facilitates the straightforward design process of systems including any mix of the Soundweb London family members. Whether the system includes a single BLU-100, BLU-100 devices with BLU-BOB break-out boxes, multiple BLU-100 devices or larger hybrid systems, the design is encapsulated within a single software application.

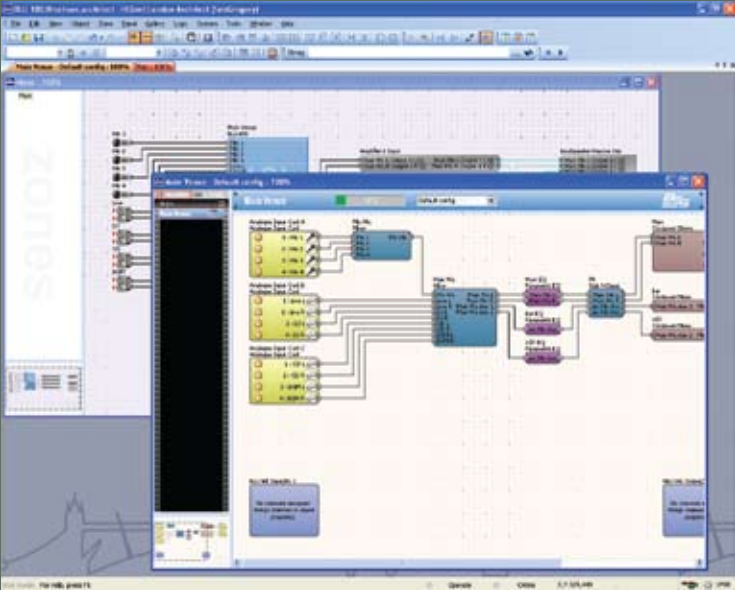
**EXTERNAL CONTROL**

As with other Soundweb London devices, 12 Control Inputs and six Logic Outputs allow the BLU-100 to be integrated with GPIO compatible devices. An RS-232 port allows integration with third-party control systems or simple serial control of third-party devices such as projectors, displays and lighting controllers. In addition to providing the connection for configuration, control and monitoring, the Ethernet port allows integration with third-party control systems using IP control

**EVOLUTION**

The BLU-100 is an example of where user feedback, combined with the leveraging of Soundweb London's technology, functionality and flexibility has resulted in the development of a truly game-changing product. The BLU-100 broadens the reach of Soundweb London and makes a solution strongly associated with high-profile projects available to many more applications.

The BLU-100 and the other members of the Soundweb London family provide the building blocks of the perfectly tailored system solution.



A Harman International Company



NETWORKED  
PROGRAMMABLE  
DSP SYSTEMS



Soundweb™  
London  
BLU-100

BSS Audio  
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Sandy, Utah 84070  
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Part number: 18-0690

# Whether a solo or a full ensemble, Soundweb London delivers the perfect performance.



PRODUCT BADGE  
Family member indication

INPUT INDICATION  
Analog input indication per card position

INPUT POSITION LABEL

CLIP LED

Analog clip indication per channel for inputs and outputs (+18.5dB)

SIGNAL LED

Signal present indication per channel for inputs and outputs (-20dB)

48V LED

Phantom Power indication per channel for inputs

OUTPUT INDICATION  
Analog output indication per card position

OUTPUT POSITION LABEL

COM LED

Control link status and activity indication for Ethernet and RS-232 connections

STAT LED  
Device configuration status indication

ERR LED  
Error indication

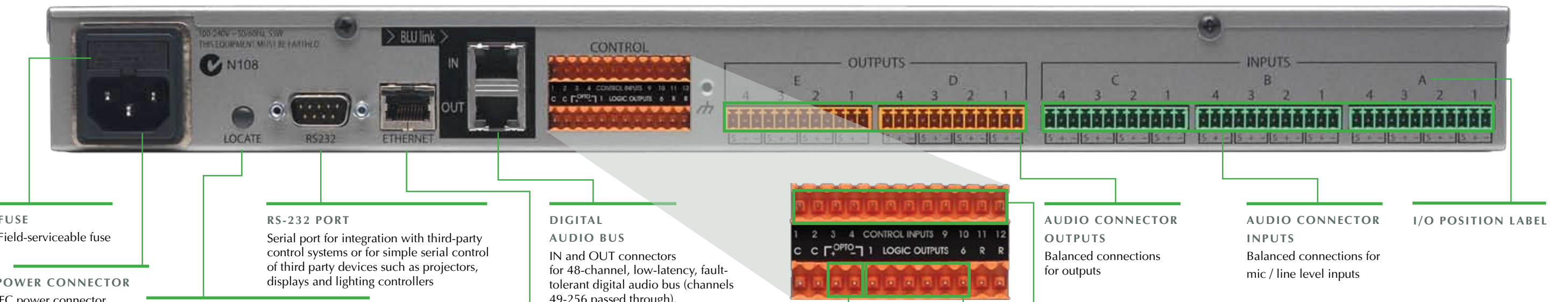
PWR LED

Power indication (flashes during Locate function)

FRONT



REAR



FUSE  
Field-serviceable fuse

RS-232 PORT

Serial port for integration with third-party control systems or for simple serial control of third party devices such as projectors, displays and lighting controllers

DIGITAL AUDIO BUS

IN and OUT connectors for 48-channel, low-latency, fault-tolerant digital audio bus (channels 49-256 passed through).

ETHERNET CONNECTOR

Ethernet connector for Soundweb London configuration, control and monitoring. Also used for integration with third-party control systems using IP control

OPTO

Opto-isolator which conducts when device is powered and functioning correctly

LOGIC OUTPUTS

Allow Soundweb London to control up to six LEDs or relays

CONTROL INPUTS

Allow up to 12 contact closures, faders or rotary potentiometers to be used to control Soundweb London parameters

AUDIO CONNECTOR OUTPUTS

Balanced connections for outputs

AUDIO CONNECTOR INPUTS

Balanced connections for mic / line level inputs

I/O POSITION LABEL

POWER CONNECTOR  
IEC power connector  
100-240V AC, 50/60Hz

LOCATE BUTTON

(temporarily flashing button)  
Bi-directional Locate for identification of hardware devices from software devices or software devices from hardware devices

## The power, flexibility and reliability for any scale of installed sound system.

With a choice of ten different devices within the Soundweb London family, Soundweb London represents a truly flexible and scalable system. Whether you require the high bandwidth audio networking of a digital audio bus, CobraNet compatibility, DSP capability, input / output expansion or a specific mix of functionality, Soundweb London offers the building blocks of a tailor-made system.

|          | CHASSIS   | CONFIG. I/O | INPUTS | OUTPUTS | CONFIG. | DISPLAY | LOGIC | RS-232 | SIGNAL PROCESSING | COBRANET | DIGITAL AUDIO BUS | ARC COMPATIBLE |
|----------|-----------|-------------|--------|---------|---------|---------|-------|--------|-------------------|----------|-------------------|----------------|
| BLU-200  | 10"       | ✓           | C      | C       | 3       | ✓       | ✓     | ✓      | 4X                | ✓        | 256               | ✓              |
| BLU-50   | 10"       | ✓           | C      | C       | 3       | ✓       | ✓     | ✓      | 1X                | ✓        |                   |                |
| BLU-720  | 10"       | ✓           | C      | C       | 3       | ✓       | ✓     | ✓      |                   | ✓        | 256               | ✓              |
| BLU-72   | 10"       | ✓           | C      | C       | 3       | ✓       | ✓     | ✓      |                   | ✓        |                   |                |
| BLU-160  | 10"       | ✓           | C      | C       | 3       | ✓       | ✓     | ✓      | 4X                |          | 256               | ✓              |
| BLU-16   | 10"       | ✓           | C      | C       | 3       | ✓       | ✓     | ✓      | 1X                |          |                   |                |
| BLU-120  | 10"       | ✓           | C      | C       | 3       | ✓       | ✓     | ✓      |                   |          | 256               | ✓              |
| BLU-100  | 10"       |             | 12     | 8       | 3       |         | ✓     | ✓      | 2X                |          | 48                |                |
| BLU-BOB1 | HALF-BACK |             |        | 8       | M       |         |       |        |                   |          | 256               |                |
| BLU-BOB2 | 10"       |             |        | 8       | M       |         |       |        |                   |          | 256               |                |

C= Configurable; S= Software; M= Manual

## Wall Controllers



BLU-10  
(US 3-gang; available in white, black and blue)  
[E]



BLU-8  
(US 3-gang; available in white and black)  
[E]



BLU-6  
(EU single-gang)  
[C]



BLU-3  
(EU single-gang)  
[C]



sw9015US  
(US single-gang)  
[C]



sw9012US  
(US single-gang)  
[C]

Other control options include GPIO, online PC control and third-party control systems.

[E] = PoE Ethernet Controller  
[C] = Control Input Controller

## Output Expanders



BLU-BOB2



BLU-BOB1



BLU-MC1  
Fiber Optic Media Converter