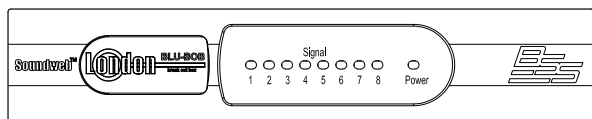
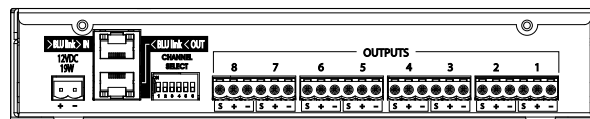


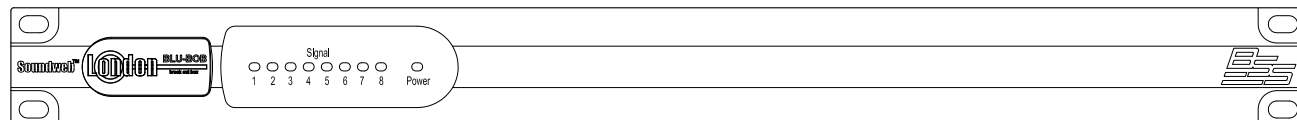
# Soundweb™ London BLU-BOB (Break-Out Box) Output Expander



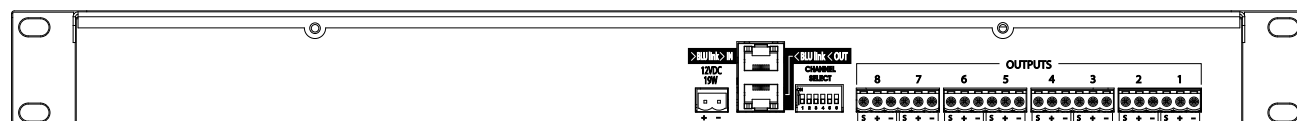
BLU-BOB1 Front



BLU-BOB1 Rear



BLU-BOB2 Front



BLU-BOB2 Rear

**OVERVIEW:**

The Soundweb London BLU-BOB or “break-out box” offers 8 channels of analog audio output expansion via the Soundweb London high bandwidth, fault tolerant digital audio bus.

This expander features a low latency, fault tolerant digital audio bus of 256 channels which uses standard Category 5e cabling giving a distance of 100m between compatible devices. The BSS Audio MC-1 fiber optic media converter can be used to increase the distance between devices to over 10km (6.2 miles) using single mode fiber.

The BLU-BOB output channels are easily configured by six DIP switches located on the rear of the device, which select consecutive channels in groups of eight. This simple configuration allows selection of any 8-channel range from the 256 channels available on the digital audio bus. Output channel assignments are configured by DIP switch selection only. The BLU-BOB is not configured by HiQnet™ London Architect.

The 8 analog line level outputs utilize the same terminal block connectors as the other members of the Soundweb London family.

Signal present and power status are clearly displayed by front panel LED indicators.

Two chassis styles are available, the first (BLU-BOB1) is a half rack width, desk or wall mounted version and the second (BLU-BOB2) is a 19” single rack space version with mounting ears for equipment racks. Front panel indication and rear panel connections are identical on both versions.

The BLU-BOB break-out box output expanders are powered by a 12V DC adapter which is included with the devices.

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

**KEY FEATURES:**

- 8 Analog Audio Outputs
- Standard Terminal Block Connectors for Analog Audio Connections
- DIP Switches for Channel Range Selection
- 256 Channel, Low Latency, Fault Tolerant Digital Audio Bus
- Clear Front Panel LED Indication
- 12V DC External Power (included)
- Terminal Block Connectors for Power Connection
- Half Rack Width, Desk Mount or Wall Mount Chassis (BLU-BOB1)
- 19” 1RU Chassis (BLU-BOB2)



# Soundweb™ London BLU-BOB (Break-Out Box)

**TECHNICAL SPECIFICATIONS:**

|                                     |  |
|-------------------------------------|--|
| <b>Front Panel LED Indicators:</b>  | Signal present per output, and Power                                     |
| <b>Analog Outputs:</b>              | 8 electronically balanced on Phoenix/Combicon removable screw connectors |
| Maximum Output Level:               | +19dBu   |
| Frequency Response:                 | 20Hz-20KHz (+0.5dB/-1dB)   |
| THD:                                | <0.01% 20Hz to 20KHz, +10dBu output                                      |
| Dynamic Range:                      | 108dB typical, 22Hz-22KHz unweighted                                     |
| Crosstalk:                          | <-75dB   |
| D/A Latency:                        | 28/Fs [0.58ms@48K, 0.29ms@96K]   |
| <b>Digital Audio Bus:</b>           |  |
| Connectors:                         | 2 x RJ45 Ethernet connectors   |
| Maximum Cable Length:               | 100m/300ft on Category 5e cable between devices                          |
| Maximum Number of Nodes:            | 60   |
| Latency Per Node:                   | 4/Fs [0.08ms@48K, 0.04ms@96K]  |
| <b>Power and Dimensions:</b>        |  |
| Mains Voltage:                      | 12V DC external power supply included                                    |
| AC Power Input to Adapter:          | 19W  |
| BTU Rating:                         | <65 BTU/hr   |
| Operating Temperature Range:        | 5 (41) to 35 (95) degrees C (degrees F)                                  |
| Dimensions BLU-BOB1 (H(U) x W x D): | 1.65" x 8.63" x 7.75" (42mm x 219mm x 197mm)                             |
| Dimensions BLU-BOB2 (H(U) x W x D): | 1.75" x 19" x 7.75" (45mm x 483mm x 197mm)                               |
| Weight BLU-BOB1:                    | 2.96 lbs / 1.34 kg   |
| Weight BLU-BOB2:                    | 5.13 lbs / 2.33 kg   |

| Channel Assignment |                     |            |                     |            |                     |            |                     |
|--------------------|---------------------|------------|---------------------|------------|---------------------|------------|---------------------|
| CHANNELS           | DIP SWITCH SETTINGS | CHANNELS   | DIP SWITCH SETTINGS | CHANNELS   | DIP SWITCH SETTINGS | CHANNELS   | DIP SWITCH SETTINGS |
| 1 to 8             |                     | 65 to 72   |                     | 129 to 136 |                     | 193 to 200 |                     |
| 9 to 16            |                     | 73 to 80   |                     | 137 to 144 |                     | 201 to 208 |                     |
| 17 to 24           |                     | 81 to 88   |                     | 145 to 152 |                     | 209 to 216 |                     |
| 25 to 32           |                     | 89 to 96   |                     | 153 to 160 |                     | 217 to 224 |                     |
| 33 to 40           |                     | 97 to 104  |                     | 161 to 168 |                     | 225 to 232 |                     |
| 41 to 48           |                     | 105 to 112 |                     | 169 to 176 |                     | 233 to 240 |                     |
| 49 to 56           |                     | 113 to 120 |                     | 177 to 184 |                     | 241 to 248 |                     |
| 57 to 64           |                     | 121 to 128 |                     | 185 to 192 |                     | 249 to 256 |                     |

Note: Lowest channel of 8 channel range is always output 1 of BLU-BOB