Soundweb™ London
BLU-10

BSS AUDIO™
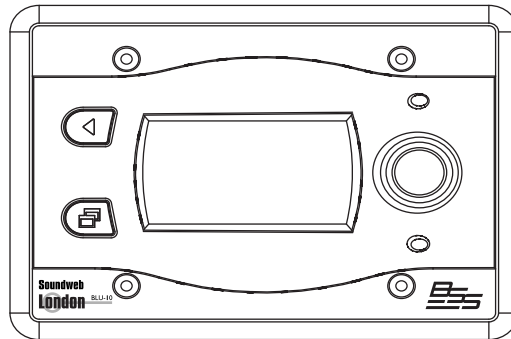

OVERVIEW:
The Soundweb London BLU-10 Wall Controller offers Ethernet connectivity, direct or PoE powering, comprehensive pre-engineered touch-screen control and password security.

The BLU-10 features a touch-screen display, two hardware buttons and a rotary encoder. The display of the BLU-10 can be divided into up to eight sizeable positions where page change buttons, preset recalls or almost any parameter can be represented. Custom text, static images and animated images can be used on these positions to further enhance the user interface.

Multiple pages can be organized into a hierarchy of folders to assist with navigation. There are two methods of navigation with the BLU-10. The first method uses page change buttons on the touch-screen display to navigate between pages in the same folder. The second method uses the lower hardware button to access a hierarchical tree representation of the folders and pages within the BLU-10 implementation.

Password security can be applied to individual pages or folders ensuring that only authorized users can make changes to specific parameters when BLU-10 controllers are placed in public areas. Access rights for different types of users can be established by using multiple passwords to access different sets of system parameters.

The BLU-10 can be programmed to enter a 'Sleep' state after a predetermined delay time. In this state, the screen brightness assumes a predetermined reduced brightness level. 'Active' brightness is restored when the BLU-10 'wakes' following detection by the IR proximity sensor.

The BLU-10 is available in white, black or blue as three different versions: BLU-10-WHT, BLU-10-BLK and BLU-10-BLU respectively.

The BLU-10 and the other members of the Soundweb London family provide the building blocks of the perfectly tailored system solution.

KEY FEATURES:
- Ethernet Connectivity
- 12-48V DC or PoE Powering
- Touch-Screen Display
- Customizable Navigation

- Password Security
- Sleep Feature
- Available in: White (BLU-10-WHT), Black (BLU-10-BLK) and Blue (BLU-10-BLU)

BLU-10 Programmable Zone Controller

TECHNICAL SPECIFICATIONS:

Front Panel Led Indicators:

Per Input:	Signal Present
Other:	LCD Display

Control Network:

Connectors:	RJ45 Ethernet connector
Maximum Cable Length:	100m/300ft on Category 5 cable

Power and Dimensions:

Power Connector:	2-way Screw Terminal
Power Consumption:	300 mA max at 12V
Dimensions (H x W x D):	4.84" x 6.69" x 2.24" (123mm x 170mm x 57mm)

Soundweb™ London
Architects & Engineers Specifications

The Digital Signal Processor shall be a stand-alone unit of one rack space, capable of providing a fully-functional system with a total of 16 analogue inputs / analogue outputs configurable by Input Cards and Output Cards in banks of 4, without the need for a dedicated, on-line computer system. The analogue inputs shall have a remotely-adjustable gain stage prior to A/D conversion.

The system designer shall be provided complete flexibility in system configuration.

Combination Microphone / Line inputs shall be provided, together with channel-selectable 48 volt phantom power per input. The unit shall provide a tamper-proof front-panel with no user-adjustable controls. Front panel LED indicators will provide monitoring of signal presence, clip and network status. Analogue / Digital and Digital / Analogue conversion shall be by 24-bit A-D converters and 24-bit D-A converters to provide maximum operating headroom and performance. The Dynamic Range shall be 105dB minimum (unweighted, 108dB A-weighted), with a THD figure of less than 0.01%.

Input and Output connections are provided via modular, Phoenix / Combicon style hardware. Mating connectors (Phoenix / Combicon MSTB 2.5 / 6-ST-5.08 or equivalent) shall be supplied with each unit on delivery or in advance.

The Signal Processor shall also be fitted with a Peak Audio CobraNet™ CM-1 card that shall allow the unit to send and receive audio signals to and from other CobraNet™ devices via a standard Ethernet network over Category 5 cable (as established in the TIA/EIA-568-B standard). This network shall be terminated on RJ-45 connectors, and be stable over distances up to 100 metres between unit and Ethernet switch. The network shall allow system expansion at a later date through the addition of further Signal Processors. The CobraNet™ card shall allow a maximum of 4 bundles of 8 channels. 48kHz and 96kHz CobraNet operation shall be possible. The network also enables routing of control data between processors.

The Signal Processor shall be fitted with a digital audio bus on BLU-800, 320, 160 and 120 devices. The bus shall allow transfer of 256 channels of audio (at 48kHz sample rate, 128 channels at 96kHz) on a point to point connection between devices using Category 5e cable terminated on RJ-45 connectors and be stable over distances up to 100 metres between devices. The bus shall also feature redundancy by completing the connection in a ring

System configuration shall be by a Personal Computer, which may be disconnected after configuration without affecting installed operation of the unit. System configurations shall be stored in each processing device, and these configurations shall not be limited by factory-only presets or pre-determined processing. It shall be possible to configure a number of system presets, which may be recalled at any time via the PC or external control devices.

A front panel LCD will provide preset recall status and fault reporting. A non-latching switch on both front and rear panel will allow identification of the networked processor on a host computer. The non-latching switches will be able to be illuminated to allow identification of a processor from the host computer.

The control software shall provide a palette of audio processing objects for use in system designs to include, but not be restricted to: Crossovers, Compressors, Gates, Duckers, Expanders, Limiters, Gain blocks, Graphic Equalizers, Stereo Graphic Equalizers, Parametric Equalizers, Stereo Parametric Equalizers, Filters, Metering points, Delays, Mixers, Matrix Routers, Matrix Mixers, Source Matrices, Tone Generators, and Source Selectors. The software shall provide the facility to construct user-defined control panels incorporating elements of the processing object parameter controls. Multi-level password-based security shall protect the integrity of the system.

The device configuration window shall provide a DSP gauge to inform the designer as to the percentage of DSP usage. The system design software shall be compatible with Windows XP Home, Windows XP Professional and Windows 2000 operating systems.

It shall be possible to connect standard potentiometers and switches or control voltages to 12 control input ports enabling non-technical operators to change system presets or variable parameters. An additional 6 control output ports shall provide logic outputs for purposes of signal indication, external switching systems, or other similar system control applications. An opto-isolated failsafe indicator shall be provided on an open-collector output.

It shall also be possible to control and design the system network remotely using a PC connected into the system control Ethernet network.

An RS-232 port shall be provided to allow control of the unit from Multimedia Systems such as Crestron, Dataton, Extron, Avenger or other PC devices communicating in a serial mode. The RS232 port on any device shall provide access to all devices that are properly networked together.

To aid in system management, the software shall provide a method of event logging so that system diagnostics are available. This event log shall include failures, warnings and information notices, and shall display the time of the event occurrence, the device to which the event applies and the design file originally loaded.

There shall be an additional units available that will be able to expand the input and output capacity of the system. This unit shall be identical in networking capabilities as the main signal processor, and feature identical input/output card configuration. The unit shall not feature any DSP resources.

There shall be an additional stand-alone units available without Peak Audio CobraNet CM-1 installed. This unit shall be identical in DSP resources as the main signal processor, and feature identical input/output card configuration. A single RJ-45 Ethernet port is provided for connection to a network for DSP configuration or control. The device will connect into the Ethernet control network with Category 5 cable.

There shall be available a programmable remote controller device, which shall provide up to 8 programmable buttons on a touchscreen liquid crystal display, a rotary encoder and page select and navigation switches. The remote control shall offer 100 pages, each protectable with a user definable password. The remote controller shall connect into the Ethernet control network with Category 5 cable. The remote control shall be capable of being housed in a standard NEMA-style, 3-Gang junction backbox.

There shall be available a programmable remote controller device, which shall provide 2 rotary encoders and programmable buttons. The remote controller shall connect into the Ethernet control network with Category 5 cable. The remote control shall be capable of being housed in a standard NEMA-style, 3-Gang junction backbox.

Smaller wall-mounting panels shall be available that allow control of sources and level (or similar functions) by connecting onto the control ports on the digital signal processor housed in a standard UK light switch wall panel.

The digital signal processor shall be the BSS Audio Soundweb London BLU-80, BLU-800 and BLU-160.
The input/output expansion unit shall be the BSS Audio Soundweb London BLU-32, BLU-320 and BLU-120.
The stand-alone unit shall be the BSS Audio Soundweb London BLU-16.
The programmable touch screen remote controller shall be the BSS Audio Soundweb London BLU-10.
The programmable remote controller shall be the BSS Audio Soundweb London BLU-8.
The wall-mounting panels shall be the BSS Audio Soundweb BLU-3 and BLU-6.

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