

The Apex Liviau S is a single-unit solution for control of lighting, audio distribution and video presentations in bars, clubs, retail and corporate applications.

Liviau S combines the functions of a comprehensive lighting controller, a fully equipped audio mixer/processor, an audio/video file server, an internet browser, a Wi-Fi hub and a stereo power amplifier in a single, compact and elegant unit.

The user interface is a 10.1" multi-touch screen, which displays a series of simple, icon-based pages. Each of these is deliberately designed to offer only the options required at any one time. The touchscreen display may be mirrored to other portable devices using the onboard Ethernet port or Wi-Fi connection, allowing the system to be controlled from elsewhere.

Liviau S connects to a flat screen display or projector using HDMI, with control of the display device being via either RS-232 or infrared. Video may be sourced from a file stored in Liviau itself, or from elsewhere via a standard Ethernet network connection, from a USB memory device or wirelessly from another device - e.g., a laptop, tablet, iPhone® or other smartphone. An external source of HDMI video (and audio) such as a DVD player or DVR may alternatively be selected. Providing the network connection is Internet enabled, web pages may also be accessed and displayed, using Liviau S's internal browser.

A comprehensive scheduler facility enables scheduling and playback of video and audio files from stored sources; ideal for use in retail outlets for example. It is also possible to schedule streams from the Internet via the

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built-in web browser. Operation is simple and straightforward via an uncluttered interface.

Liviau S's audio performance is exemplary: the unit provides six balanced analogue inputs (two mic, four line), six balanced analogue audio outputs, a fully assignable audio mixing matrix and a high quality 50 W/channel stereo power amplifier. The outputs permit routing to four different zones in the facility. A 4-band parametric equaliser is included on every input and output, and additionally, each output has a limiter and crossover facility, thus permitting the use of high quality bi-amped loudspeakers. Master control of volume is always available with a virtual fader on all screen pages. Using Bluetooth, audio may also be sourced from other compatible portable devices elsewhere in the room. A configurable 'Push to Talk' button permits either microphone to be routed directly to any, or all zones for relaying announcements.

Liviau S features a fully integrated DMX controller for powerful and sophisticated lighting control. As well as architectural lighting, up to sixteen intelligent lighting devices may be controlled. Moving heads, strobes, RGB devices, lasers, dimmers and other DMX enabled devices are all controllable via the DMX512 control screens. In addition to the DMX controller, Liviau S also incorporates a programmable lighting mixer offering 24 cues, 16 fixtures, a sequencer with fade time and an effects generator with pan & tilt.

There are also four GPOs, two GPIs and two GP ports that may be defined at installation as either inputs or outputs. These may be used to control Digital Voice Announcement systems for example.

Liviau S can be installed as a free-standing unit, integrated into furniture or wall-mounted. It is built in a very stylish, custom aluminium enclosure, and includes an ambient light sensor to adjust screen brightness and a proximity sensor to wake the system. Liviau S is silent in operation (no fans) and is powered by a separate external 24 V PSU (supplied).

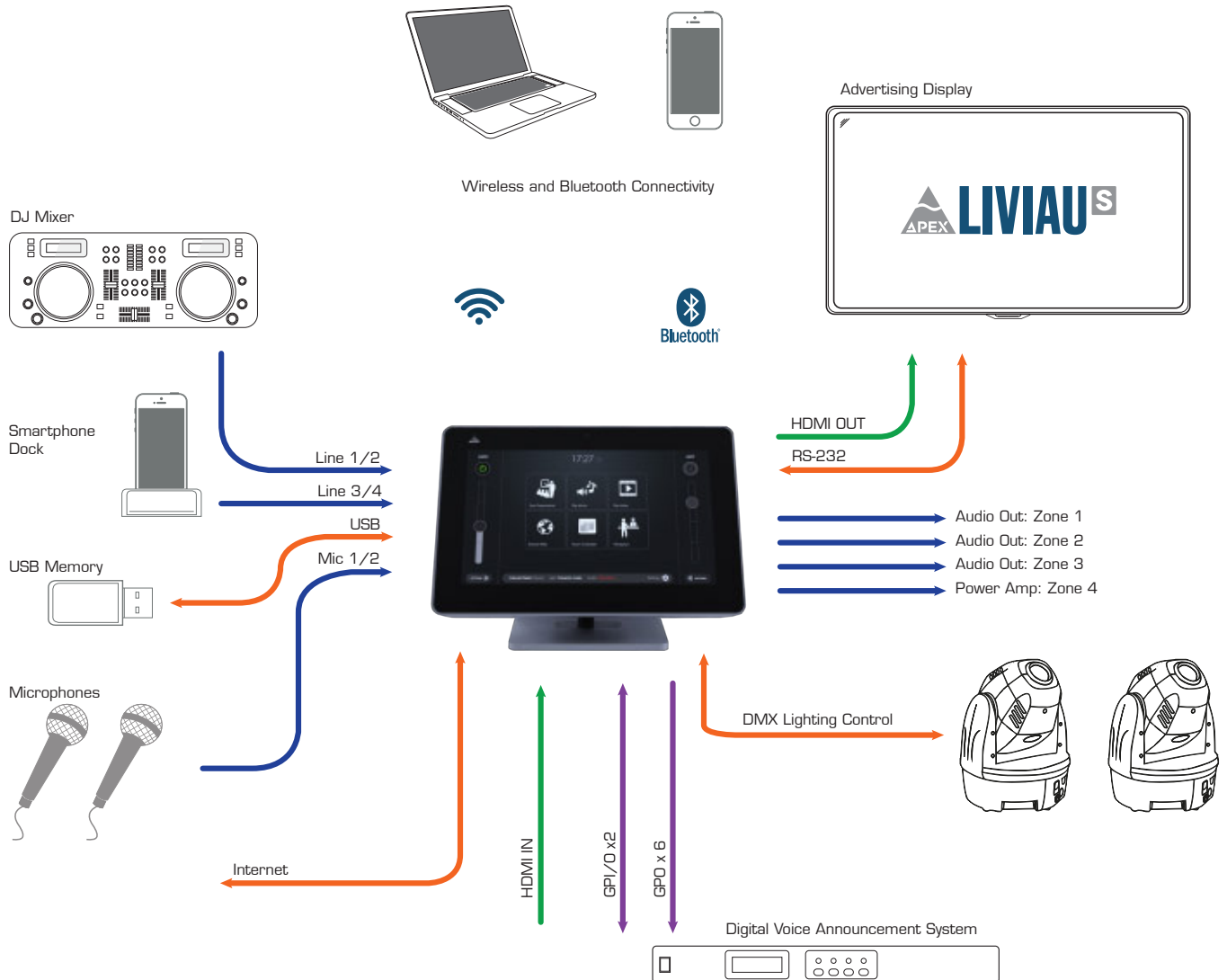
Primary Details

- "All-in-one" unit – no separate processor
- Extremely simple in use
- Cost-effective solution
- Contemporary design, ideal for today's working environment

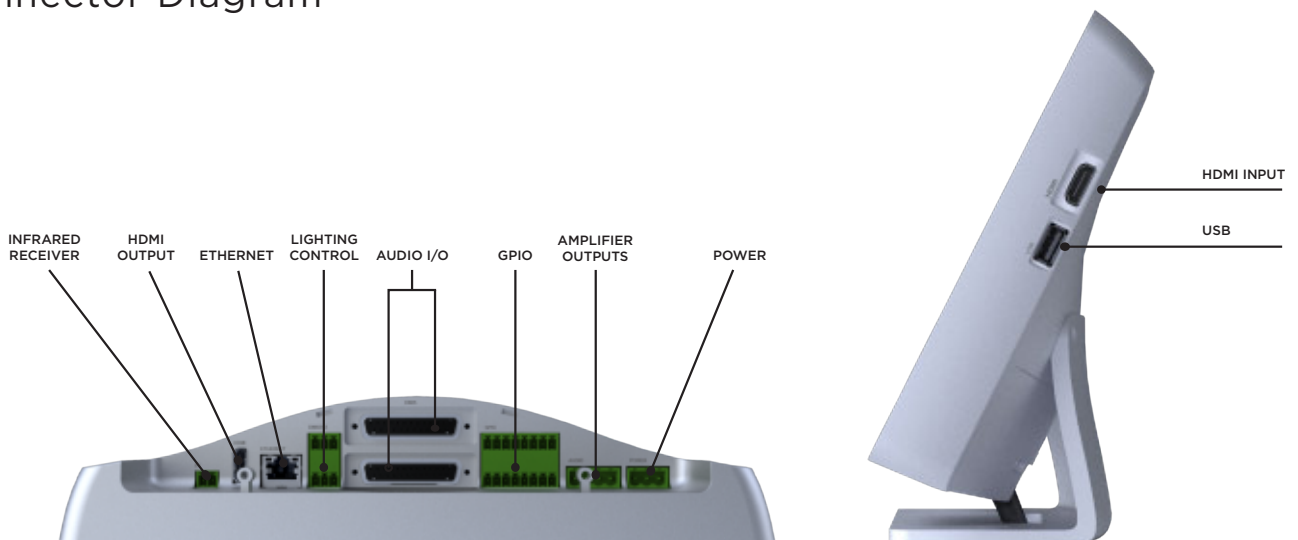
Features

- Video and audio playout scheduling
- DMX 512 control for intelligent lighting and dimmer packs
- Lighting effects controller
- Very high level of audio performance
- Balanced audio inputs for mics and line sources
- Multi-zone balanced outputs
- Integral 50 W/ch stereo amplifier
- Powerful audio DSP section
- Internal memory for commonly-accessed data
- USB port
- Wi-Fi enabled
- Network port
- Bluetooth connectivity
- HDMI input and output
- Control support for all common flat screen displays and projectors
- RS-232, IR and GPIO ports
- Silent in operation: very low power consumption

Example System Diagram



Connector Diagram



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Technical Specifications

General	
Display	10.1" multi-touch capacitive screen; ambient light sensor for backlight control
Cooling	Passive
Processor	Quad core Cortex A9
Comms	
Network	Gigabit Ethernet port
USB	1 x USB Type 'A'
Wi-Fi	Compliant with 802.11 a/b/g/n, 2.4/5.0 GHz MIMO
Bluetooth	4.0/BLE
Video	
Input	1 x HDMI 1.4a, 1920 x 1080p
Output	1 x HDMI 1.4a
Audio - I/O	
Mic inputs - type	2 x balanced, $Z_{in} > 10$ kohms
Line inputs - type	4 x balanced, $Z_{in} > 5$ kohms
Max input level	+18 dBu (mic and line)
Line outputs - type	6 x balanced, $Z_{out} < 50$ ohms
Max. output level	+18 dBu (line outs)
Power amplifier outputs	2 x 50 W into 4 ohms
Audio - processing	
Sample rate	96 kHz
Matrix	6 x 6
EQ	4-band parametric on all inputs and outputs
Limiters	On all outputs
Crossovers	On all outputs
Recorder	24-bit, 48 kHz; 128 kbps AAC. Max duration approx. 500 hours (internal)
Other I/O	
Lighting control	DMX 512
GPOs	Four, volt-free, 24 V @ 100 mA
GPIs	Two, volt-free, 24 V
GPIOs	Two, configurable as inputs or outputs
Serial port	RS-232C, bi-directional
Infra red port	1 x IR, for standard IR LED emitter
Other	
Wake up	By proximity sensor
Power requirements	24 V dc @ 6 A max., via supplied AC PSU
Dimensions (w x h x d)	273 mm x 177 mm x 60 mm (without stand)

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* Apex, Apex Liviau and Apex Liviau R are brands of GiVa Audiovisual Technologies