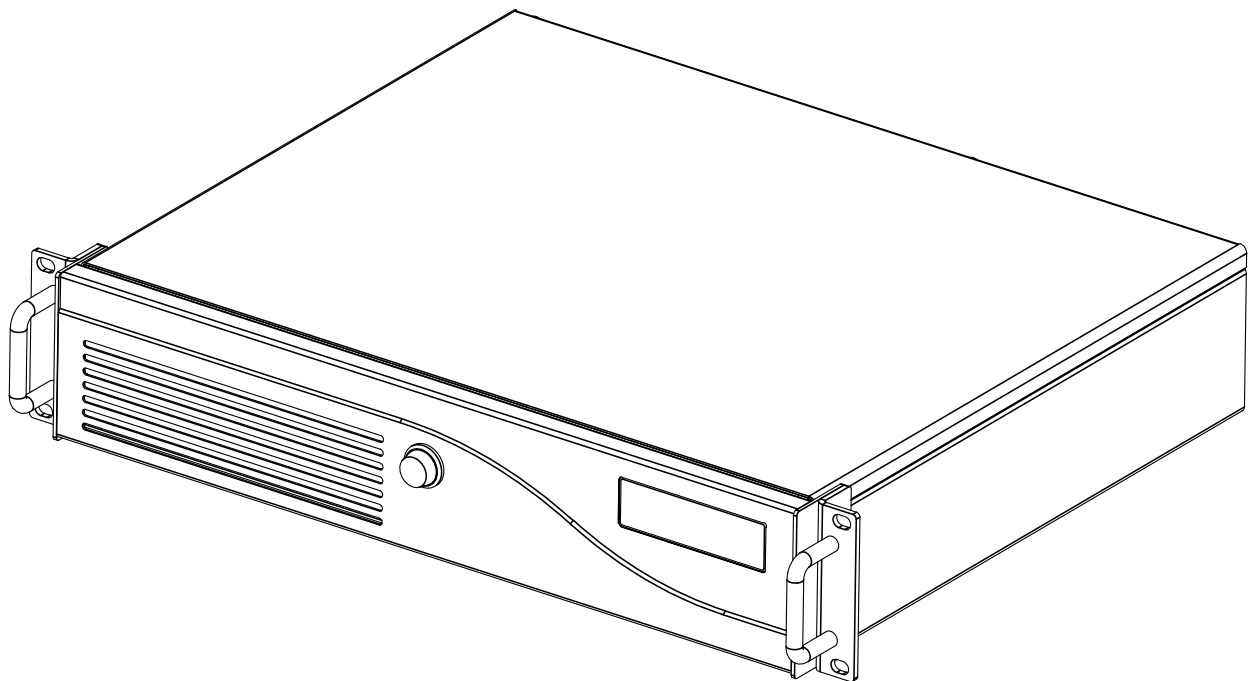


L-ISA PROCESSOR



product information



Document reference: L-ISA Processor product information version 6.0















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[EN] Safety


Important safety instructions


-  **Inspect the system before any deployment.**
Perform safety related checks and inspections before any deployment.
-  **Verify the electrical conformity and compatibility of the mains supply.**
Only connect the product to an AC power outlet rated 100-240 V, 50-60 Hz.
WARNING: The product is of CLASS 1 construction and shall be connected to a mains socket outlet with a protective connection to earth.
-  **When the product is used in a three-phase circuit, verify the electrical conformity and compatibility of the three-phase circuit.**
Verify that the three phases work, and balance the loads between the three phases.
Verify that the neutral and earth work.
Never try to emulate a 230 V circuit connecting an apparatus to two live wires of a 120 V three-phase circuit.
Never try to emulate a 200 V circuit connecting an apparatus to two live wires of a 100 V three-phase circuit.
-  **Electrical generator**
You must power on the generator before powering on the product.
Verify that the product is turned off before powering on the generator.
-  **Never incorporate equipment or accessories not approved by L-Acoustics.**
-  **Read all the related PRODUCT INFORMATION documents shipped with the products before exploiting the system.**
-  **Intended use**
This product is intended for use by trained personnel for professional applications.
-  **As part of a continuous evolution of techniques and standards, L-Acoustics reserves the right to change the specifications of its products and the content of its documents without prior notice.**
Check www.l-acoustics.com on a regular basis to download the latest document and software updates.
-  **Do not use the product outside its operating temperature range.**
The product operates at a room temperature between 0 °C / 32 °F and 50 °C / 122 °F.
Do not expose the product to direct sun.
-  **Only use the product in a conformed electro-magnetic environment.**
Conformed environments are: E1 (residential), E2 (commercial and light industrial), E3 (urban outdoors), E4 (controlled EMC environment, ex. TV studio), as per EN55103-2 standards.
-  **Avoid radio interference.**
This product has been tested and complies with the limits indicated in the EMC directive (Electro Magnetic Compatibility). These limits are designed to provide reasonable protection against harmful interference from electrical equipment, but it cannot be guaranteed that interference will never occur.
-  **Contact L-Acoustics for advanced maintenance.**
Any unauthorized maintenance operation will void the product warranty.
-  **Shipping**
Use the original packaging for shipping the product.
-  **Maintain this document as an integral part of the product.**
Do not resell the product without this document.

Symbols


The following symbols are used in this document:

 This symbol indicates a potential risk of harm to an individual or damage to the product.
It can also notify the user about instructions that must be strictly followed to ensure safe installation or operation of the product.

 This symbol indicates a potential risk of electrical injury.
It can also notify the user about instructions that must be strictly followed to ensure safe installation or operation of the product.

 This symbol notifies the user about instructions that must be strictly followed to ensure proper installation or operation of the product.

 This symbol notifies the user about complementary information or optional instructions.

 Do not open unless authorized.
This symbol indicates the presence of electrical shock hazards.
It also indicates that no maintenance performed by the end user requires access to internal components.

Welcome

Thank you for purchasing the L-ISA Processor. The shipping carton should contain:

- 1 L-ISA Processor
- 1 power cable
- 1 AES/Midi breakout cable
- 4 rubber feet
- 1 front panel lock key

Each product is tested and inspected before leaving the factory and should arrive in perfect condition.

After the careful opening of the shipping carton, check for any noticeable damage. If so, notify the shipping company or the distributor immediately. Only the consignee may initiate a claim with the carrier for damage incurred during shipping. Be sure to save the carton and packing materials to be inspected by the carrier.

Carefully read this document in order to become familiar with the product and to identify the external documents containing essential information on installing and operating the product properly and safely. Product documents are freely available on the L-Acoustics web site: www.l-acoustics.com

As part of a continuous evolution of techniques and standards, L-Acoustics reserves the right to change the specifications of its products and the content of its document without prior notice. Please check www.l-acoustics.com on a regular basis to download the latest document and software updates.

Manuals and procedures

Power ON/OFF procedures

Power ON sequence

1. If the rear PSU power switch is OFF, turn ON the switch.
2. Use the front power button to power ON the device.

Power OFF sequence

Always perform a “soft” power OFF using the front button (or via the L-ISA Controller) before turning OFF the rear PSU power switch.

Service and maintenance



In case of issues during operation, contact your L-ISA representative.

Do not open the chassis or attempt any maintenance operation.

EC declaration of conformity

L-Acoustics LTD, 67 Southwood Lane, London N6 5EG, United Kingdom, states that the L-Isa Processor is in conformity with the provisions of:

Directives

- Electrical safety:
 - Low Voltage Directive (LVD) **2006/95/EC**
 - General Product Safety Directive (GPSD) **2001/95/EC**
- Electromagnetic Compatibility (EMC): EMC Directive **2004/108/EC**
- ROHSII Directives: 2011/65/EU

General

Europe: Audio, Video And Similar Electronic Apparatus - Safety Requirements **EN 60065:2010**

RoHS

Europe: Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances **EN 50581:2012**

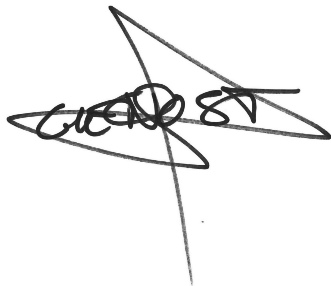
Electrical safety

- Europe
 - Safety requirements for audio, video and similar electronic apparatus **EN 60065**
 - Information technology equipment - Safety - Part 1: General requirements **EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011**
- USA / Canada: **UL60950-1:2007 / CSA C22.2- No. 60950-1-7:2007**
- CB Report: **IEC 60950-1:2005 (Second Edition) + Am 1:2009**

EMC

- Europe
 - Information technology equipment– Radio disturbance characteristics– Limits and methods of measurement **EN 55022:2010 Class B**
 - Generic emission standard for industrial environments (Emission) **EN 61000-6-4:2007**
 - Generic standards - Immunity for industrial environments (Immunity) **EN 61000-6-2:2005**
 - Assessment of the compliance of low power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (10 MHz to 300 GHz) **EN 62479**
- USA: **47 CFR part 15**
- Canada: **ICES-003 Issue 4 :2004**

Issued in London, United Kingdom, October 5, 2015.



Guillaume Le Nost, Head of Research & Development.

Network configuration

i Use dedicated networks for LA NWM and L-ISA.

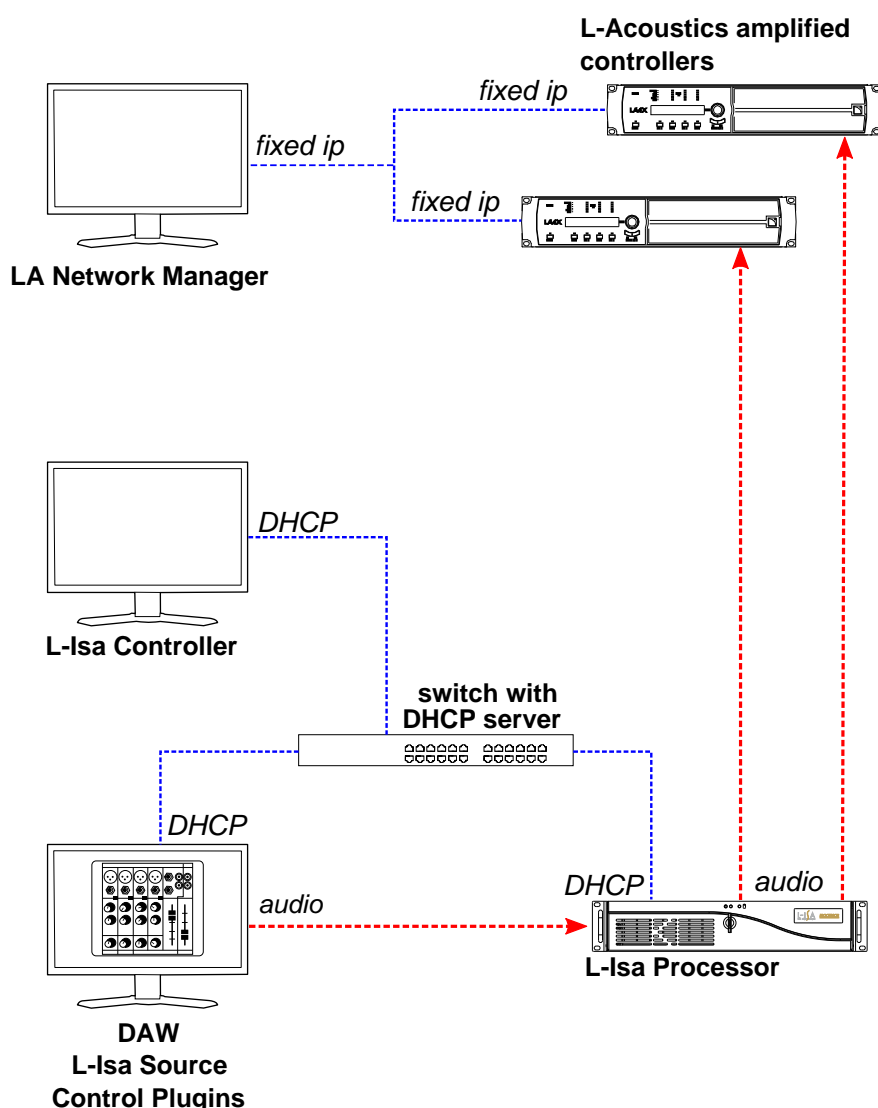
L-ISA Controller receives data on UDP port 8880. This is required to connect to the L-ISA Processor, L-ISA Plugins, or any external control device (Desklink, Trackers, OSC).

For L-ISA Plugins to work, the hosting DAW and L-ISA Controller need to be able to use UDP port 9438 over multicast IP address 239.255.139.81. If using managed switches, make sure that IGMP settings are properly configured for multicast traffic.

For license activation, L-ISA Controller needs to be able to connect to an HTTPS server.

For L-ISA Processor based emergency activation, the L-ISA Controller and L-ISA Processor need to be able to use UDP port 11389 over multicast IP address 239.255.84.167.

L-ISA network using DHCP

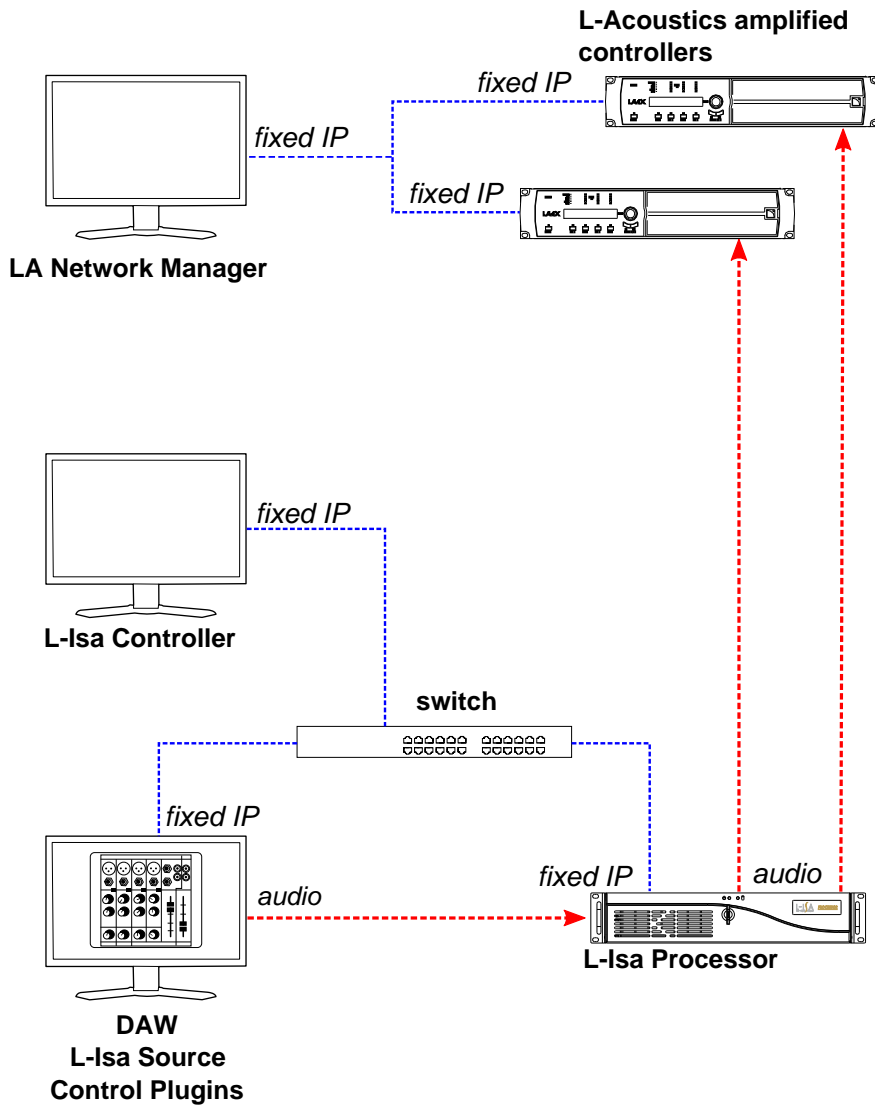


i The L-ISA Processor supports APIPA.

If there is no DHCP server, devices will automatically self-assign an IP address and the system will remain operational. This process is called Automatic Private IP Addressing (APIPA).

The Internet Assigned Numbers Authority (IANA) maintains some special range of IP addresses (269.254.x.y) solely for private use. They are guaranteed not to conflict with routable addresses.

L-ISA network using fixed IP



i The L-ISA Processor is set to DHCP as default.

To set a fixed IP:

1. Set up a point to point connection from a DHCP enabled laptop to the L-ISA Processor.
2. Use the L-ISA Controller software and follow the instructions described in the Help menu.

L-ISA Processor specifications

Interfaces

front	2 x USB 2.0
installed board	1 x Gb RJ45
	1x Displayport
	2x USB 3.0

Power supply	100-240 V AC 400 W (80+)
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Temperature

non-operating	-20°C - + 70°C (-4°F - 154°F)
operating	0°C - + 50°C (32°F - 122°F)

Humidity	10-95 % rel humidity at 40 C° non condensing
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Shock	15 g, 11 ms
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Vibration	10-500 Hz, 1 g
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Noise	< 35 dBA at idle
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Protection Class	IP 20
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Audio inputs

Sampling rate 44.1 kHz	MADI optical 1: inputs 1 to 64 MADI optical 2: inputs 65 to 96
Sampling rate 48 kHz	MADI optical 1: inputs 1 to 64 MADI optical 2: inputs 65 to 96
Sampling rate 96 kHz	MADI optical 1: inputs 1 to 32 MADI optical 2: inputs 33 to 64 MADI BNC: inputs 65 to 96
Audio outputs	1-32 Redundant on MADI optical 1 / optical 2 / BNC 1 x stereo analog (6.3 mm TRS), automatic downmix 1 x stereo AES/EBU (XLR), automatic downmix

Sync sources	Word Clock (IN BNC) MADI coaxial MADI optical
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Indicators	Powers LED Drive LED
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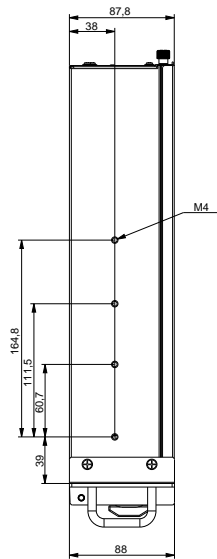
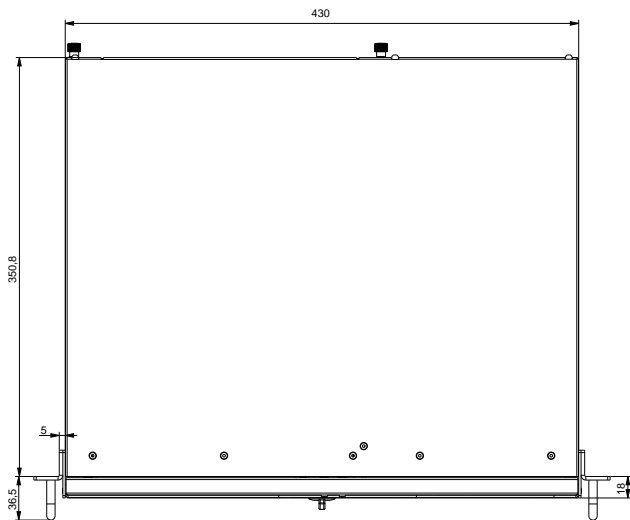
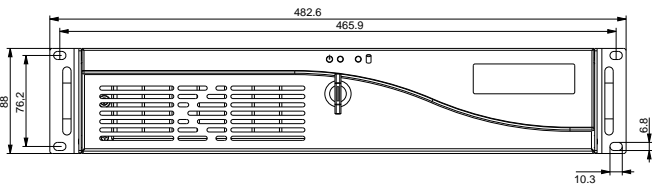
Remote control and monitoring	RJ45 Gigabit for L-isa controller
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OSC compatibility for third party control tools

Weight	8.9 kg / 19.6 lb
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Dimensions

H/W/D
88 / 482.6 / 350.8 mm
2U / 19" / 13.78"



Notes



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