

**VIETA**  
PROFESSIONAL SOUND SYSTEMS

QUICK START



ESPAÑOL · ENGLISH

**So**line

# CONDITIONS OF GUARANTEE



VIETA AUDIO S.A. awards you this guarantee as purchaser of a Vieta product.

The guarantee period shall begin at the time when the final user purchases the product. Said product can consist in different parts or accessories, which may be covered by different guarantee periods. Said periods are as follows:

- 1) 24 months (2 years) for all products and accessories except those in the following section.
- 2) 6 months for the So-1012 current adaptor and the batteries included inside the module So-1022.

This warranty covers any manufacturing errors for all VIETA products sold on Spanish soil by authorised dealers. VIETA products acquired in other countries will be covered by the guarantee offered by the local distributor.

For this guarantee to be valid you must go to a technical service centre authorized by VIETA AUDIO S.A. and present the purchase invoice.

This guarantee DOES NOT COVER:

- Damage caused by accident, misuse or abuse.
- Damage caused by external elements or natural catastrophes.
- Robbery
- Damage caused by manipulation of the product by personnel not authorized by VIETA AUDIO S.A.
- Subsequent damage to other components.
- Products purchased outside the Spanish territory or from unauthorized distributors.
- Any cost deriving from the installation or de-installation of the product.

Any manipulation of the product by personnel not authorized by VIETA AUDIO S.A. will automatically make this guarantee void.

Consult with your local distributor to find out which is your nearest technical assistance service centre authorized by VIETA AUDIO S.A.

# EC NORMATIVE AND NORMS OF SECURITY

VIETA



**ATTENTION:** Do not disassemble or modify the device in any way.  
These symbols warn of the presence of dangerous un-insulated voltages inside some of the components of sufficient magnitude to expose people to risk of electric shock.  
Certain components, such as the batteries module, contain materials that, if handled, may emit elements harmful to the health.



This symbol calls attention to important use and maintenance instructions in the manual that accompanies the unit.



This symbol warns of magnetic elements in some of the components of sufficient strength to cause risk of loss of data in items such credit cards or magnetic medium discs.



These letters indicate that the equipment complies with all the norms imposed by the European Community.

# FOR YOUR SECURITY



- Do not disassemble or modify the device or any of its accessories in any way.
- If the unit is to remain inactive for a long time, unplug it.
- It is recommended, in the case of the batteries module, that its place of storage should be dry and removed from sources of heat, such as radiators, direct sunlight or interiors of vehicles. This will help to maintain the useful life of the module and will minimize the possibility of corrosion.
- After a long time in storage, it is possible that the batteries module does not manage to charge completely recharge completely. Charge and discharge the batteries a few times to recover their initial capacity.
- The process of charging the module must not be carried out in places where the range of temperatures is less than 0° or greater than 40° as this could disturb the charging cycle and may even cause irreparable damage to the batteries.
- Sources of flame, such as lighted candles, should not be placed on top of the equipment. Especially, the batteries module, as there may be vapours that react to sources of ignition.
- In case of detecting leaking liquid in the batteries module, do not use it and do not attempt to take it apart. This could lead to the release of materials harmful to the health and may even represent a high fire risk. Get in contact with the place of purchase of the module.
- This equipment must be handled separately to the end of its useful life as electronic waste material. (WEEE Directive on Waste of Electrical and Electronic Equipment, 2002/96/CE)
- The equipment must not be exposed to dripping or spouting water.
- Objects filled with liquid, such as glasses, should not be placed on top of the equipment.
- This equipment is meant for use in professional sectors. Therefore, it is understood that users have a certain technical level that will permit them to understand most of the concepts in this manual. If this is not the case, it is recommended to contact the manufacturer or the vendor to be advised correctly.

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This module is one of the most important in the So family. The So-1022 enables one of the main features of the So-CUBE, its totally wireless connection, completely eliminating cables from the installation, including those of the power supply. The batteries module consists of 2 Sub-D 25 pin connectors to be able to combine this module with other modules in the So family. Go to section 6 for more information about setting up this module in combination with the So-CUBE and with the rest of the modules in the So family.

The range of the So-1022 is approximately 8 hours, emphasizing that it is possible to link various So-1022 modules in order to increase this time. Each module increases the range proportionally, that is, the So-CUBE would have a range of approximately 16 hours if connected to 2 linked So-1022 modules, of approximately 24 hours if connected to 3 So-1022 modules and so on.

With the So-1022 a maximum supply of current of 2.5 Ah can be reached.



It should never be attempted to open any of the batteries in this module. They contain alkaline electrolytes that could release corrosive elements harmful to the health.



Different modules from this one cannot be used for joint functioning with the So-CUBE. Ignoring this warning could lead to breakdown of the equipment, as well as automatic voiding of the guarantee.

### 5.2.1 BATTERIES CHARGING PROCESS

The batteries module has various Nickel Metal Hydride (NiMH) batteries inside connected in series. These batteries are rechargeable, therefore it is recommended to start the charging cycle before using the product for the first time. The status of the batteries can be observed at any time in the Bat Status Menu, while the charge status can be seen in an LED indicator that the module has for this purpose. The system for regulating the charge is incorporated in the internal electronics of the module in order to make it easier for the user to use the device's charging process. This module also has a self-resetting fuse to avoid possible internal damage to the electronics in case of unexpected variation in voltage or a short circuit caused by bad connection.

It is recommended not to discharge the batteries completely, as there is a risk of this seriously shortening their useful life. It is recommendable to start the charging process before the module is completely flat.



There are 2 different ways of charging the battery modules: via the So-1012 adaptor and the SO-1032 module or via the Master Power Supply (So-1073). Complete charging of each module takes about 3 hours. 2 modules can be charged at the same time but it must be kept in mind that the 2 modules will not complete charging simultaneously, as there are various factors that can differentiate one module from another

and not all modules will discharge at the same speed.

In both cases and to show the status of charging, the module has a led indicator so the user knows at all times the charge status of the SO 1022. This indicator has 4 different function statuses:

Indicator off: The batteries module is disconnected or some bad connection keeps the module disconnected.

Indicator permanently on: The batteries module is completely charged and ready to be connected.

Indicator flashing once per second (1 Hz): The batteries module is connected and functioning correctly.

Indicator flashing 4 times per second (4 Hz): The batteries module is connected and is being charged.

#### 5.2.1.1 Charge via So-1012 + So-1032

Fit the So-1022 to the So-1032 using the Sub-D 25 pin connector (see section 6 for more information about set-up between different modules), once they are fitted, connect the So-1012 adaptor to the input of the So-1032 marked DC IN 18 V.

Connect the adaptor to the mains electric power supply to start the charging process.

Although various SO 1022 modules can be fitted to provide more range to the So-CUBE, only a maximum of 2 modules can be used at the same time for the charging process. Connecting more than 2 modules could interfere seriously with the correct functioning of the batteries charging process, and may even cause irreversible damage to the modules.

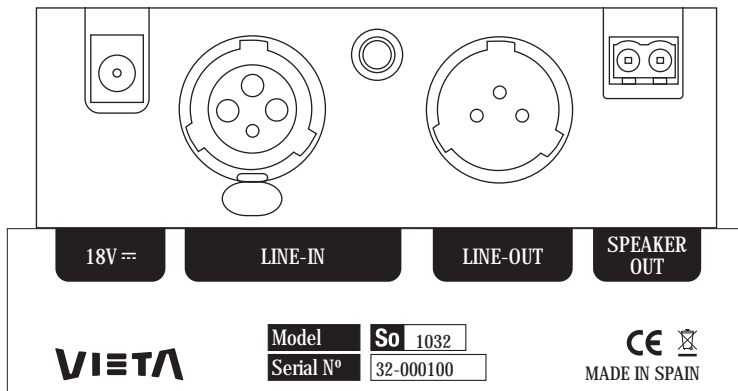
#### 5.2.1.2 Charging via So-1073



Go to section 5.7 for more information about the process of charging with the So-1073 industrial charger.

### 5.3 CONNECTIONS MODULE (So-1032)

The So-1032 is another of the modules essential for obtaining maximum performance from the So-CUBE. This module has been designed to provide the So-CUBE with auxiliary inputs and outputs. As well as this feature, the So-1032 is the only accessory in the family that has an input of continuous current to which an So-1012 adaptor can be connected, thereby making it possible for the system to work via the mains power supply as well as permitting the So-1022 module to be charged.



The So-1032 consists of the following connections:

**DC IN 18 V INPUT:** Input for the So-1012 adaptor. This input consists of a standard connector for input of continuous 18V current. Via this connector, the system is enabled to connect an electrical current adaptor so the system can function connected to the electric power supply.



It is very important to be aware that, despite this being a standard connection, any adaptor on the market cannot be used. The manufacturer recommends using the So-1012 adaptor. Otherwise, an adaptor of similar characteristics must be connected. Bad connection or the use of an electric current adaptor of different specifications may cause serious damage to the system.

**LINE IN:** Input consisting of 2 connectors: an XLR balanced line input connector and a mini-jack connector. Both connectors provide the system with auxiliary inputs. (See section 6 for more information on possible system configurations)



It is not recommended to use both auxiliary inputs simultaneously, as the system is not designed to work with various auxiliary inputs. The simultaneous use of 2 inputs would cause mixing of both audio signals, meaning that good system performance cannot be guaranteed.

**LINE OUT:** Auxiliary system output via line-balanced XLR connector. Performs the pass-through function of the XLR line input connector. (See section 6 for more information on the possible configurations of the system)

**SPEAKER OUT:** Double terminal connector designed to enable the system for the connection of slave modules (So-1001 and So-1002). This connector is an audio signal output. This terminal receives exactly the same electric signal that the So-CUBE loudspeaker receives; therefore any sound variation in the loudspeaker (such as, increased volume or muting the equipment) will be transferred simultaneously to this output connector.



This connector does not have to be used only for the So-1001 and So-1002 modules, as the signal in this output terminal can be used for any loudspeaker; however, it is not recommended to connect loudspeakers with impedance of less than 8 ohms since they could seriously affect the performance of the system.

## 5.4 So SLAVE ONE AND So SLAVE TWO (So-1001 / So-1002)

The So-CUBE can be extended with passive modules. This permits increased sound performance in the system without having to double the quantity of units in the installation. Both modules can work in 2 modes, either as slaves of the So-CUBE or as independent loudspeakers.

See section 6 for more information about the connection of passive modules.

## 5.5 STANDS (So-1052 / So-1053)

The SO family offers the possibility of placing the So-CUBE on a stand. There are 2 stands, of different heights:

SO 1072 – 80 cm long stand.

SO 1073 – 130 cm long stand.

Both stands have an iron foot and fittings to fix the So-CUBE and other modules, thus avoiding possible loss of balance in case of a strong impact.

See section 6 for more information about setting up the stands.

## 5.6 RACK (So-1072)

Among the accessories in the So family there is also a transport rack. The So-1072 is a transport flight case with capacity for 20 So-CUBE units fitted to an So-1022 batteries module and an So-1032 connections module.

The height of a So-CUBE fitted with an So-1022 and an So-1032 is the same as that of the So Slave One (So-1001), therefore, the So-1072 rack can also serve to transport 20 So-1001 units or a combination of So-CUBES and modules and So-1001s.

The cover of the So-1072 is also designed for placing 2 fixed units of So Master Power Supply (So-1073), making the So-1072 a complete solution for transporting the material to its place of installation.