

Ksenia lares 4.0

security innovation



**THE MOST INNOVATIVE
IOT SOLUTION FOR SECURITY AND
HOME & BUILDING AUTOMATION**

EN 50 - 131 Grade 3



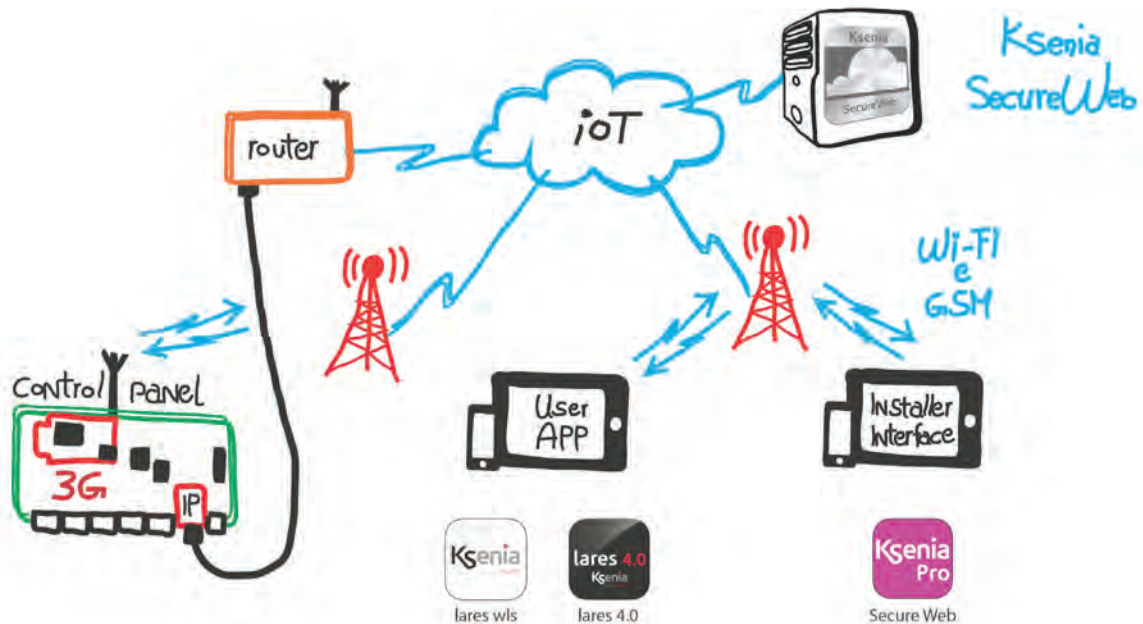
Lobeco

FIRE + SECURITY

We make it work.

www.lobeco.nl | www.lobeco.be

ALWAYS CONNECTED



3G back-up of **IP-LAN**
and vice versa.

MOBILE REVOLUTION: THE KSENIA SECURITY NEW WAY OF PROGRAMMING AND MANAGING ITS SYSTEMS FROM ANY MOBILE TERMINAL

All Ksenia Platforms represent an important Technological Innovation for enabling the configuration and management by means of Ksenia SecureWeb, on top of the traditional modes via PC.

Ksenia SecureWeb is a cloud-based Server available on AWS allowing the development of complex applications enhancing their flexibility, scalability and reliability. Ksenia SecureWeb is therefore able to offer a superior Data Elaboration Capacity, Data Base Storage, different Contents and other functions to support the growing different End-User's and Installer's expectations. All this by offering the highest Security Level and Privacy, encrypting the Network and providing a DRP (Disaster Recovery Plan), thus verifiable in the world of Interbank Services as well as Intelligence Services of most important Governments.



Photograph the Qr-code to see the video
Ksenia SecureWeb



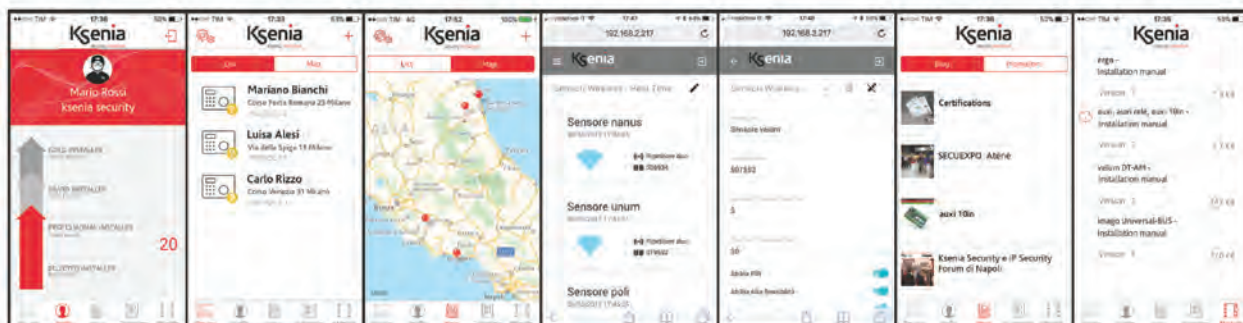
Ksenia Pro App: only for Professional Installer



The IoT (Internet-of-Things) Platforms represent a significant advancement in their Value Proposition also thanks to the Ksenia SecureWeb.

Ksenia SecureWeb, in fact, offers to the Installer a single dedicated APP named KSENIA PRO, which allows the Control Panel Configuration from any mobile terminal, smart-phone included, simply by scanning the Control Panel QR-code.

Furthermore, with this fantastic Tool, the Installer has the possibility to receive all the Technical Release, Marketing News, Reserved Commercial information and any variation applied to the Installer Manuals.



Scratch Cards



Thanks to Ksenia Pro APP the Installer can configure and geolocalize for free an unlimited number of control panels. It is also possible to centralize and receive Push Notifications from an unlimited number of previously installed systems. This service is free up to a number of 3 installations (regardless of whether they



provide a control panel lars 4.0 or lars wls), for a higher number the Installer is invited to use a license available as scratch-card that allows him to increase from time to time the number of control panels that can be managed according to the license purchased (available in the 10- or 30-control panels version).



Thanks to Loquendo scratch card (p/n KSI7800011.000) and using Ksenia Pro it is possible to generate voice messages with text-to-speech (TTS) synthesis, in the chosen voice and language, without the need to be in the system, like the license provided on a USB key requires instead.

lares 4.0

codice prodotto KSI1400016.300 - lares 4.0 - 16
 KSI1400040.300 - lares 4.0 - 40
 KSI1410040.300 - lares 4.0 - 40 wls
 KSI1410140.300 - lares 4.0 - 140 wls
 KSI1410644.300 - lares 4.0 - 644 wls



Secure web



App Ksenia Pro



App lares 4.0



5 years warranty

COMPLIANCE

EN50131 grade 3 - class II

lares deriva dal latino secondo cui i "Lari" nella Roma antica, erano le divinità che proteggevano la domus, la casa; quale miglior nome per una famiglia di centrali di Sicurezza?

lares comes from Latin and means "Lari": in Ancient Rome they were the divinities who protected the domus, the home. What better name for a family of Security control panels?

The control panel is available in 2 different versions: for smaller sizes the control panel has only one BUS (compatible except for some exceptions with all existing BUS devices that can be updated by the control panels) while for all the others it already integrates the double BUS and the 868MHz bi-directional wireless transceiver (compatible with all existing Ksenia wireless devices).

Particular attention is always put to the ease of installation and for this reason all the connection terminals are removable.

On all versions and regardless of the control panels size, the boards have an SD card slot to expand the available memory, in addition to receiving directly on board (without communication BUS to maximize the speed of transit of information and data) both the 3G module (and soon the 4G-LTE) and, where necessary, the PSTN module. In any case, the sending of voice messages, e-mails, text messages, push notifications, Contact ID and SIA DC-09 level III protocol to the Surveillance Centers is guaranteed.

The Installer APP then allows you to centralize and geolocalize all the installed units and therefore to offer maximum assistance to the end customer by receiving push notifications also for technological alerts (this is valid for all the IoT control panels: lares 4.0 and lares wls).

lares 4.0 is available and perfectly scalable in sizes 16, 40, 140 and 644 or even customizable for needs of higher areas and / or outputs.

The panel board can be installed inside the existing metal containers used for 'lares-IP'; furthermore a new metal container is available for medium-large installations: with dimensions of 435x325x90mm, it allows to allocate not only the motherboard of the control unit with the related add-on modules, but also up to 7 expansion modules, the 18Ah back-up battery and has a 50W switching power supply.

MAXIMUM RELIABILITY

lares 4.0 control panel is designed for the most severe installation and operating conditions and for the most "sensitive" applications. In fact it complies with the European standard EN50131 grade 3 - class II.

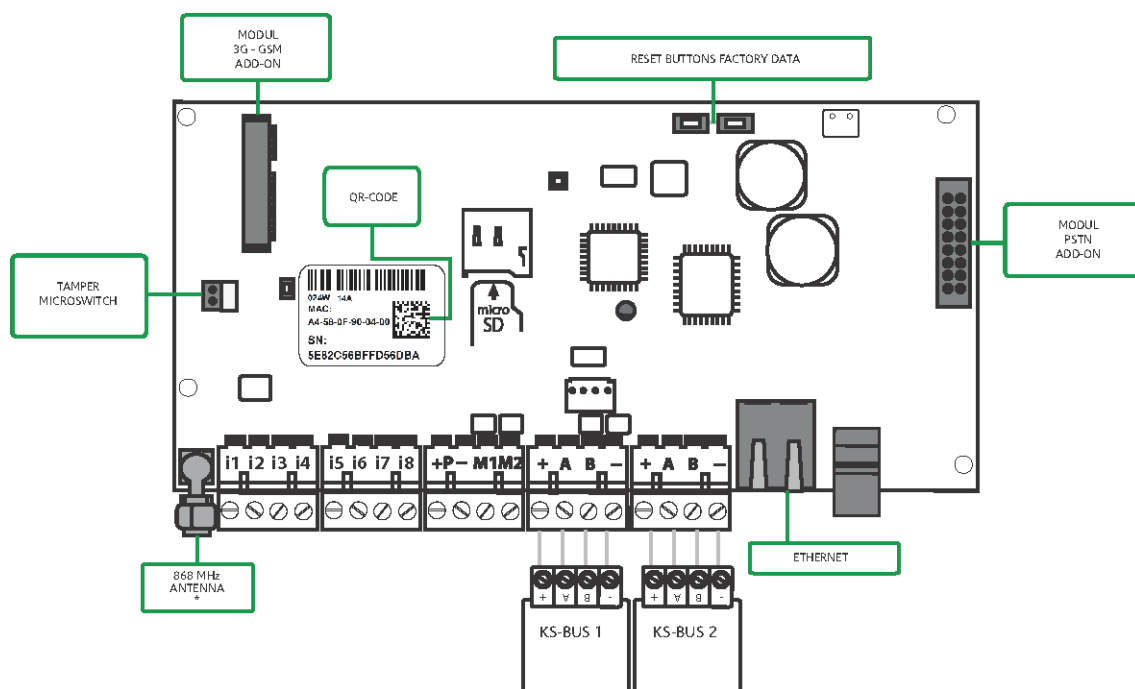
lares: main Performance's Comparison

The Iares 4.0 control panel platform was designed and produced with unprecedented power, computing and memory speed (even compared to the existing Iares, however already superior to the major competitors) as highlighted by the comparative table shown in the table below. It allows to manage parallel communications in encrypted mode at 2048bit with loading times of a few seconds, storing hundreds of screenshots from the supported IP cameras, doing the back-up of local programming on SD-card, etc.

	lares	lares 4.0
Flash memory (space code)	512 KB	4 MB
RAM	96 KB	512 KB
CPU Clock	80 MHz	240 MHz
Drystone MIPS (Mln. Instr. per sec.)	132	480
NAND data memory	8 MB	32 MB
NOR data memory (eMMC)	-	4 GB
SD card slot	no	yes

lares: the most complete family of Control Panels





Compliant EN 50131-Grade 3

HOW TO ORDER

KS11400016.300 - lares 4.0 - 16:

up to 16 IN + 16 OUT with 6 partitions - native with Ethernet interface.
(no wireless on board - requires a duo transceiver)
Dedicated APP for Installer (Ksenia Pro) and User (lares 4.0)

KS11400040.300 - lares 4.0 - 40

up to 40 IN + 40 OUT with 12 partitions - native with Ethernet interface.
(no wireless on board - requires a duo transceiver)
Dedicated APP for Installer (Ksenia Pro) and User (lares 4.0)

KS11410040.300 - lares 4.0 - 40 wls

up to 40 IN + 40 OUT with 12 partitions
native with Ethernet interface and 868 MHz bidirectional wireless
(DPMS technology - Dynamic Power Management System) and double
BUS on board.
Dedicated APP for Installer (Ksenia Pro) and User (lares 4.0)

KS11410140.300 - lares 4.0 - 140 wls

up to 140 IN + 140 OUT with 20 partitions
native with Ethernet interface and 868 MHz bidirectional wireless
(DPMS technology - Dynamic Power Management System) and double
BUS on board.
Dedicated APP for Installer (Ksenia Pro) and User (lares 4.0)

KS11410644.300 - lares 4.0 - 644 wls

up to 644 IN + 1644 OUT with 30 partitions (and beyond on specific
project): native with Ethernet interface and 868 MHz bidirectional
wireless (DPMS technology - Dynamic Power Management System) and
double BUS on board.
Dedicated APP for Installer (Ksenia Pro) and User (lares 4.0)

PARTS INCLUDED

Each PCBA control panel board is delivered with:

- Power supply cable and battery connection
- 10 10KΩ end-of-line resistors
- Installation manual and quick guide
- 868.5MHz antenna with 30cm of cable (only on wls versions)

ACCESSORIES

KS17404130.010 - Metal cabinet painted in white 325 × 435 × 90 mm,
lockable door and microswitch tampers, removable base,
space for 7 expansion modules and an 18 Ah back-up battery.
As standard, the metal cabinet is supplied with a 50W
Switching power supply.

KS17402117.010 - Metal cabinet painted in white 255×295×85 mm,
lockable door and microswitch tampers, 2 keys, space for 1
expansion modules and 7Ah back-up battery.
As standard, the metal cabinet is supplied with a 25W
Switching power supply

KS17403130.010 - Metal cabinet painted in white 325×400×90 mm,
lockable door and microswitch tampers, 2 keys, space for 2
expansion modules and 7Ah back-up battery.
As standard, the metal cabinet is supplied with a 25W
Switching power supply

KS14800000.300 - Kit auxiliary Antenna with 30 cm cable.

KS14800001.300 - Kit external Antenna with 3 m cable.

(*) lares 4.0 - 644* wls: In order to obtain a unique and customized solution, for large
project, it is possible to agree a customization of
lares 4.0 with a number of areas larger of 644 already available.

Lares 4.0 MAIN FEATURES

	lares 4.0 - 16	lares 4.0 - 40	lares 4.0 - 40 wls	lares 4.0 - 140 wls	lares 4.0 - 644 wls
Zone Management					
Number of zones (of which radio)	16	40 (40)	40 (40)	140 (64)	644 (64)
number of customized balancing	2	4	4	14	64
Output Management					
Number of outputs (of which radio)	16 (16)	40 (40)	40 (40)	140 (128)	644 (128)
Virtual Output (timer software)	●	●	●	●	●
Motherboard					
1. Programmable inputs/outputs	2	2	2	2	2
2. Inputs	8	8	8	8	8
on board 868MHz radio interface	-	-	●	●	●
on board BUS	1	1	2	2	2
Software					
Number of partitions	6	12	12	20	30
Number of arming modes	8	32	32	64	128
#Hashtag number	2	12	12	20	64
Timer of time scheduler	8	64	64	64	128
Number of stored events	1500	1500	5.000	10.000	10.000
Number of manageable users	16	64	128	512	1024
Number of programmable scenarios	8	32	32	128	512
Number of events groupings to which associate the scenarios	32	64	64	256	1024
Number of IP cameras	4	12	12	20	30
Installer APP	●	●	●	●	●
User APP	●	●	●	●	●
BUS management					
User Interfaces (ergo keyboards, ergo S, ergo M, volo, volo in)	6	24	24	40	64
Expansion Module (auxi, auxi relè, auxi 10in, auxi-L, auxi-H**)	4	24	24	64	250
opis/divide	4	12	12	20	64
duo BUS (64 peripherals)	2	2	1 (2)*	1 (2)*	1 (2)*
Sirens (indoor and outdoor)	6	24	24	40	64
domus moduls	-	8	8	32	64
Wireless					
Wireless sensor (poli, nanus, unum, velum, nebula)	16	40	40	64	64
imago wireless Siren	3	3	3	5	5
opera Remote control	16	64	64	64	64
duo repeater	2	2	2	2	2
auxi wireless I / O	8	20	20	64	64
Manage Notifications					
Number of contact lists	8	8	8	16	32
Number of contacts for each list	8	8	8	8	8
Number of events grouping to which associate a list of contacts	16	32	32	64	128
Hardware					
Power supply voltage	15 Vcc ± 1%				
Central Power Consumption (max)	100mA				
Temperature range	5 °C / + 40 °C 23 °F / 131 °F				
Degree of protection IP	IP34				

* If the Motherboard is already having the wls "onboard", n.1 "duo BUS" can be added.
 ** auxi-H module is not compatible with lares 4.0-16

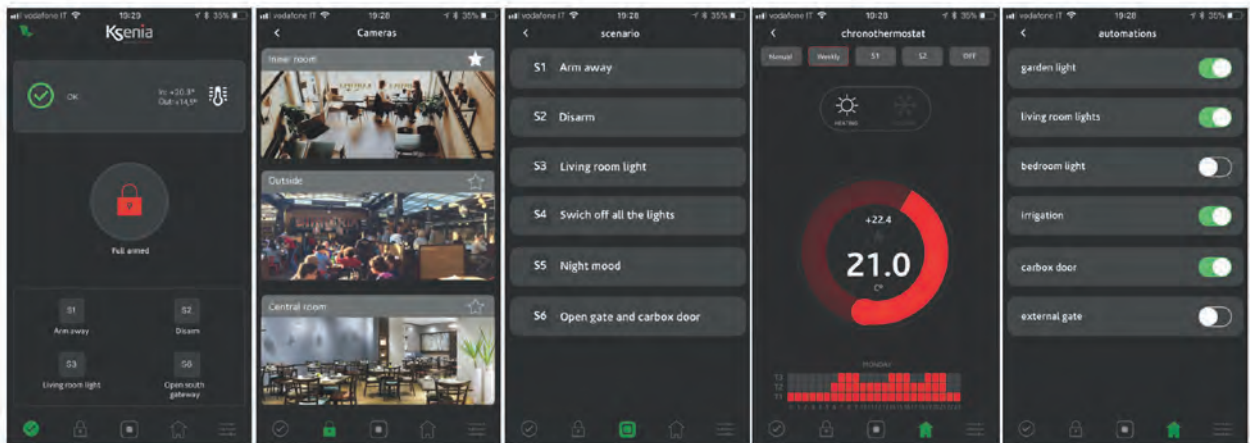
lares 4.0 User APP



Thanks to this new App the USER EXPERIENCE is really fantastic: very direct and easy to use, a comprehensive Home or Building Surveillance. A single APP in fact allows to monitor all Security Aspects (Intrusion, VideoSurveillance, Access Control) and simultaneously to manage Home Automation or BMS (Building Management System).

MAXIMUM FREEDOM and CREATIVITY

For the first time the User himself, without asking to his Installer, can not only choose but even set-up the domotic scenario he wants and manages it even from remote in the way he likes. Similarly the User can determine which kind of Push Notification he wishes to receive on his smartphones or tablet.



Description of lares 4.0 main functions

Input section

Each control panel has 8 programmable inputs and 2 terminals that can be configured as inputs or outputs. Practically we already have on the panel board up to 10 inputs.

Furthermore a special connector is available for connecting the protections against opening and removal of the control unit from the wall. Depending on the model, the number of inputs can be expanded up to a maximum of 644, using the various aux expansion modules, the ergo keypads or wireless modules aux wls. Each output can be programmed according to needs: polarity, mode, times, activations. Everything kits easily to any installation need.

Output section

The number of outputs can be expanded up to a maximum of 644 using the various aux expansion modules, the ergo keypads or the wireless modules aux wls. Each output can be programmed according to needs: polarity, mode, times, activations. Everything kits easily to any installation need.

KS-BUS interface

All the panels have a KS-BUS interface for connecting Ksenia peripherals, which allow to expand the capabilities and functionalities of the control panel. In the wireless versions, the panels have a double BUS on board, the speed is doubled and isolation is also guaranteed even in case of severe failure of one of the two BUS.

Ethernet connectivity

In compliance with Ksenia philosophy, the IP interface is already integrated on the motherboard: a solution that allows you to comfortably manage the control panel from anywhere in the world from any internet connection. It is possible to program the

control panel, perform all the management operations available in the system through the integrated installer WEB-SERVER, connecting to the Ksenia SecureWeb cloud for the remote management and programming via mobile APP. The system is protected by a triple security: all remote operations require password entry, the data are sent over the network under encrypted protocol and finally it is possible to disable remote access at any time or limit its functionality. In addition the system is able to send e-mails, synchronize the clock via NTP protocol, manage a P2P connection with the DNS ksenia, send the events to the telecommunications centers via the SIA DC009 protocol and much more without the need for hardware or additional licenses.

Communication add-on

The communication add-ons can be connected to the control panel board: one for the mobile part (GSM / GPRS, or 3G / HSPA, and in the future LTE), the other one for the PSTN part.

Unlimited Memory

All the panels have a 4GB eMMC memory to save programming data, event logs, updated device firmware, screenshots of IP cameras. And if this memory is not enough, it will always be possible to expand the capacity through the special SD card slot.

Power control

lares 4.0 monitors both the external power supply voltage and the battery voltage: periodically it checks its efficiency and alerts in case of problems. Moreover, in case of prolonged power failure, lares has a battery disconnection function to prevent deep discharges: the control panel, before "auto-shutdown", performs all the necessary checks, stores the date and time of the event

going in stand-by in security. In this case even the sirens will not sound, avoiding unnecessary disturbances. When the power returns, everything will be restored as before, including the status of the outputs!

Voice messages

On the control panel it is possible to register a virtually unlimited number of different voice messages, with hundreds of minutes of recording: they allow to warn the user in case of alarm or failure (with a personalized message for each zone). The voice messages are generated by a text-to-speech (TTS) synthesis engine: it is available thanks to the Loquendo® libraries (*) and released by a "one-off" license.

You can use the licenses purchased on USB key that are compatible with traditional lares, for the generation in local connection, or buy a new one with scratch card for generation via KseniaSecureWeb (therefore remotely via APP).

ONVIF compatibility

On the IP versions of the lares control panel, cameras compatible with the ONVIF protocol (Open Network Video Interfaces Forum) can be integrated without the need for additional cards or hardware. Without the need to perform port mapping on the router, it is possible to send screenshots when an alarm occurs or see what happens in the protected areas in real time.

Partitions

Each zone can be freely associated to a partition to simplify its management, depending on the model up to 30 partitions are available. For each partition it is possible to program the entry, exit, warning, patrol times and define different entry modes.



* It may be associated with any model / brand of Control Panel, even if they are without voice dialer.

HOW TO ORDER

KS17800011.000 - Scratch card with a licence for 1 voice/1 language. It can be activated on www.kseniasecureweb.com

KS17800010.0xx - License on USB hardware support with a licence for 1 voice/1 language. Contact Ksenia's sales office to select the voice / language.

Lots of new security features and integrated home automation

Not only is the platform easily integrated into any logic of Home Integration & Automation, but it is the absolute protagonist being perfectly able to manage the home automation applications you have always dreamed of for your home without the need for PC or complicated programs.

Below is a list of some home automation applications that do not include intrusion:

- lighting
- heating / air conditioning systems
- irrigation systems
- automation and load control
- fire detection and suppression system
- audio and video entertainment
- audio and video surveillance
- access control

The control panel also allows the acquisition of a new programming without restarting the system, any modification does not change the status of the system.

New functions have been added to expand the potential of the control panel, such as hashtags per zones, outputs, users and user interfaces: a single label to manage even 644 outputs in one go! Many new features on scenarios, such as the possibility to exclude and include zones, enable or disable users, manage 4 modes of entry (manual override, forced with exclusion, forced with alarm, compatible EN50131). Moreover the behaviour of the scenario can

even be variable depending on the localization (local or remote): for example, opening a door remotely requires the insertion of a PIN while locally it takes simply to press a button!

All this without losing control of the intrusion, today even more powerful but simplified in many aspects to facilitate the Installer's work.

Firmware update remotely

Both the control panel firmware and all the peripheral devices connected via the KS-BUS can be simply updated in a few seconds. It is not necessary to make any special connections, nor to insert jumpers or switch off the system or peripherals: the firmware is already in the control panel which downloads it by itself at every update from the KseniaSecureWeb.

The update is done by simply pressing a button and it is safe. All Ksenia Security devices have a unique firmware update technology: the dual-firmware-mode.

A copy of the new firmware is saved on the device (control panel) that needs to be updated. Once the copy is finished (it can be done during normal system operation) the device checks the new firmware using a CRC (Cyclic-Redundancy-Check): if it is correct, it will start using the new firmware; otherwise it will continue to use the old one code, ensuring maximum reliability even in case of interruption of the transmission.

In practice all Ksenia Security systems are backwards compatible, new features or

functions available in the future can be added also to existing systems without the need to modify or replace the peripherals themselves.

Future devices

This special update management ensures that, once a lares control panel is installed, it will be compatible with all future Ksenia Security devices, without any need to replace the control panel, simply by updating its firmware.

The future ahead of us

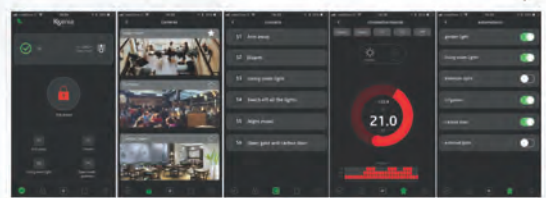
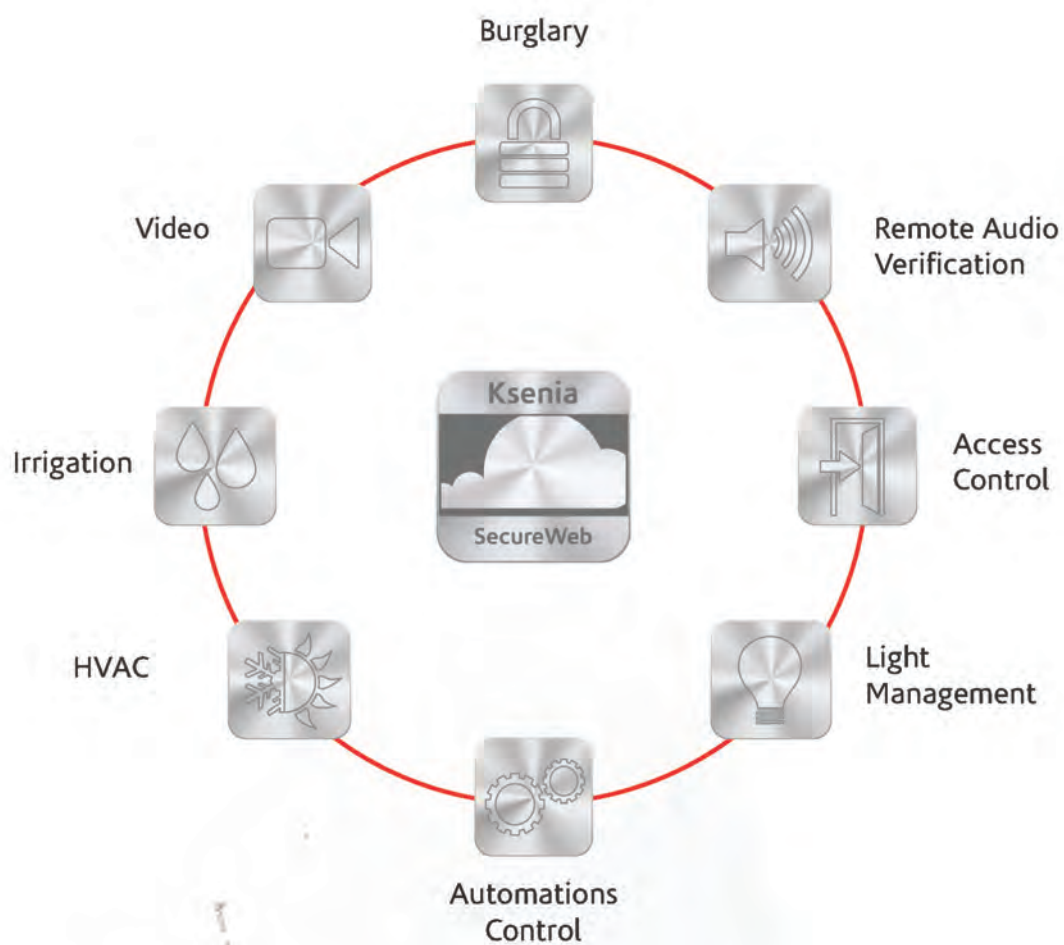
Iares 4.0 is an evolutionary platform that will allow us to always add new and innovative functions oriented to Security, access control and Home & Building Automation.

Feedbacks from our customers are important to give the right priorities to all the functions we intend to add from time to time and identify new ones.

Iares platform has been constantly enriched with functions from 2011 until 2015, absorbing most of the R & D resources. We expect the Iares 4.0 platform to follow the same path!



SMART BUILDING AUTOMATION PROVIDES MINIMUM 40% ENERGY SAVING



3G module

product code KSI4103000.300 - 3G module



TECHNICAL DATA

- Interface mini PCI-express
- Power supply: 3,3 Vdc
- Current consumption: 50 mA stand-by, 2,2 A max
- UMTS Bands: 900/2100 MHz
- GSM Bands: 900/1800 MHz
- Maximum data rate: 7.2Mbit/s DL, 5.76Mbit/s UP
- Operating temperature : 5-40 °C
- Compatible SIM type: micro
- Antenna connector type: SMA
- PCBA dimensions: 32x62x14 mm

PARTS INCLUDED

- 1 3G add-on module (PCBA)
- 1 PCBA Support holder
- 1 Installation manual

HOW TO ORDER

KSI4103000.300 - 3G module

COMPLIANCE

Europe - CE, RoHS
EN50136 Grade 3 - Class II
T031:2014

Thanks to 3G module it is possible to expand the communication capabilities of lares 4.0 control panel. It allows the sending of voice messages, SMS, and contact ID whenever any of the events programmed in the control panel occurs. It also provides a high-speed data channel (up to 7.2 Mbps in downlink) that can do a complete back-up of the IP communication, or even be the only data channel available of the control panel. Regardless of the Internet connection over IP, with the addition of the 3G module, lares 4.0 will be enriched with the following features:

1. Sending of messages using the SIA DC09 digital protocol, with channel and receiver supervision
2. Remote configuration of the control panel through application Ksenia PRO or from the portal www.kseniasecureweb.com
3. Remote management of the control panel with lares 4.0 application
4. Possibility of video monitoring by ONVIF IP cameras connected in local network to the control panel

ACCESSORIES

KSI4800000.300 - Kit auxiliary Antenna with 30 cm cable.

KSI4800001.300 - Kit external Antenna with 3 m cable



PSTN module

product code KSI4200001.300 - PSTN add-on for Iares 4.0



Using the PSTN module, the communication capabilities of Iares 4.0 control panel can be extended.

It allows the sending of voice messages and contact ID when any of the events programmed in the control panel occurs.

It is a quick installation module, plugged into the control panel motherboard, and connected to the telephone line through a standard RJ-11 connector.

Another connector, always RJ-11, allows the connection of telephones and other devices that use the telephone line, in case of alarm the device is therefore able to start the communications by disconnecting all the other devices that use the telephone line.

It can work either as a back-up of 3G (or GSM) module or as main line.

TECHNICAL DATA

- Add-on Modul with 16 pole connectors
- Power Supply: 12 Vdc and 3,3 Vdc
- Current consumption: 10 mA on 12 V, 30 mA on 3,3V
- Operating temperature: 5-40 °C
- Connettor RJ-11
- PCBA dimensions: 80x38x16 mm

PARTS INCLUDED

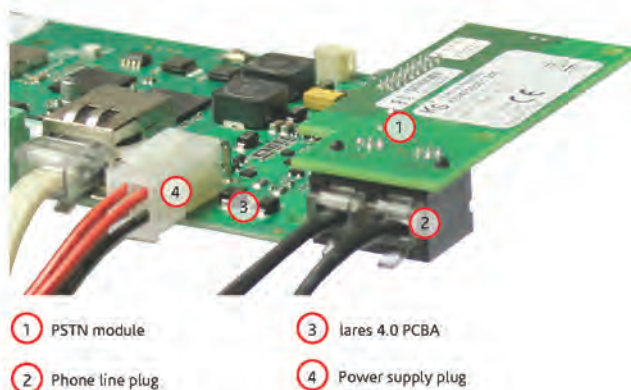
- 1 PSTN (PCBA) add-on modul
- 2 sustainers for PCBA
- 1 Installation Manual

HOW TO ORDER

- KSI4200001.300 - PCBA

COMPLIANCE

Europe - CE, RoHS
EN50136 Grade 2 - Class II
T031:2014



1 PSTN module

2 Phone line plug

3 Iares 4.0 PCB

4 Power supply plug



DNS

39

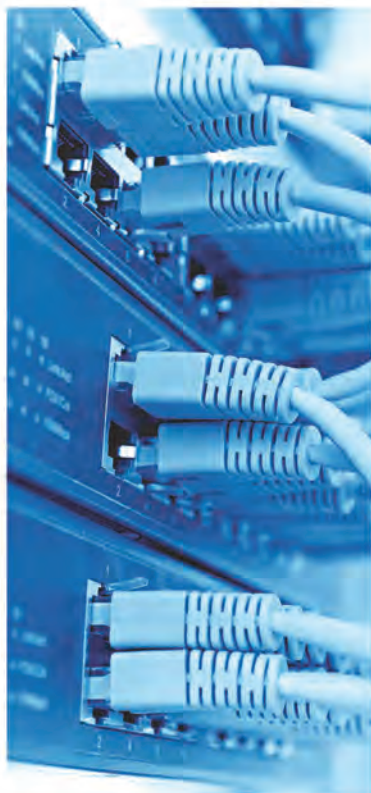
lares COMMUNICATION AND PROGRAMMING SYSTEMS/ KSENIA DNS

Gratuito / Free

All the service is completely free for all customers Ksenia; no deadline in terms of time or computational resources.

Assistenza / Tech. Support

All users can access the e-mail support to resolve configuration issues or referring directly support ksenia.



DNS Dinamico / Dynamic DNS

The dyndns is a tool to update in real time a URL, making it always point to the IP address of your system. In this way, the IP address can even change, but the URL address remains the same over time, allowing the connection to the line with dynamic IP address.

KseniaDns.com is a free service without paying options that can exploit this mechanism to your dynamic IP, associating a fixed URL. Inserting a device Ksenia configured to use the DDNS service, in your network, you can indirectly also access other resources, such as cameras, NVR, etc

Semplice da usare / Simple to use

Simplified configuration for all devices Ksenia, using the software basis in three steps: register on the portal (only the first time), recording a personal URL, URL configuration of basis.

www.kseniadns.com

A free service to Ksenia Selected Installers.

Professionale / Professional

All recordings are used to manage countless clients / devices from your account, and you can also monitor all of their interactions with the server devices ksenia ddns in the log. Finally you can make advanced searches using various types of filtering information.

Dettagliato / Documented

The service is provided by a very detailed online help for both the registration process that the operation of the various devices.

Performante e Reattivo / Effective and Reactive

A service-based cluster of redundant servers provided directly by Telecom Italy, unlimited resources to provide an efficient, responsive h24 Service.

Kseniadns.com, as all Ksenia solutions, simple unique



gemino expandable UNIVERSAL* GSM/GPRS Communicator **gemino4** UNIVERSAL* GSM/GPRS Communicator (4 programmable inputs)

product code **KSI4100010.300** - gemino expandable PCBA only
KSI4100010.310 - with Slim "double-use" plastic case (gemino expandable)
 product code **KSI4100020.300** - gemino 4 PCBA only
KSI4100020.310 - with Slim "double-use" plastic case (gemino 4)



MAIN FEATURE

- **Voltage:** 13,8 Vdc
- **Consumption:** 80mA stand-by, 250mA max
- **GSM line:** GSM/GPRS Telit BGA module 22x22 mm (designed in Italy) Quad-Band (850-900-1800 and 1900 MHz)
- **Outputs:** 2 OC on board (GSM failure and PSTN absence)
- **inputs:** Up to 5/10 programmable on the expander module
- **Simulated PSTN line:** line voltage: 40V, loop current: 20mA, programmable line tone, ring voltage: 120Vac
- **Line selection:** DTMF
- **Operative temperature:** -5 to +50 °C
- **PCB dimensions:** 92x113x20 mm
- **Max. overall - dimensions:** 140x102x30 mm
- **Weight:** 170 g

COMPLIANCE

Europe CE

Loquendo

* It may be associated with any model / brand of Control Panel, even if they are without voice dialer.

gemino dal latino significa **unire strettamente, mettere uno accanto all'altro**. **gemino** derives from Latin and means **closely related/linked or to put one next to the other**.

gemino is a Bi-directional Universal GSM/GPRS COMMUNICATOR specifically developed for Professional Security applications, even though its flexibility enables its use in many telecom/communication, industrial and residential applications, basically anywhere there is a need to transmit signals in a reliable manner and in absence of the fixed line (or as alternative to it) in order to protect sensitive installations (like as, but not limited to, industrial plants, solar installations, rural and marine installations, incubators, glasshouses, etc.).

As an interface, **gemino** steadily controls the status of the PSTN line: in case of its absence, all linked communication devices will use the simulated phone line delivered by the communicator, therefore allowing to make and receive calls via GSM with a very high-quality audio output thanks to the adoption of a digital audio channel.

With **gemino4** and **gemino expandable** versions it is also possible to send signals through the contact-ID protocol via GSM net, i.e. to Central Monitoring Stations. Contrary to many other devices currently available in the marketplace, **gemino** integrates the GSM antenna directly on the PCB, making the external antenna basically redundant for the majority of the application while, for particular installations an external antenna can be added and the Communicator can always manage and provide the best quality signal between the two; moreover, other interesting news is that **gemino** offers the possibility to manage 2 different SIM cards, even from 2 different providers, monitoring continuously the status of the GSM network according to three different simultaneous modes:

1. measuring the signal level and quality
2. verifying the proper registration to the GSM network
3. detecting the presence of interferences (jamming)

In short **gemino** is in a position to steadily choose which antenna and which SIM card (or provider) has to be used so as to assure the best possible GSM coverage for Security system applications (Patent pending).

Additionally, for all pre-paid SIM Cards, the Communicator includes the credit control and the automatic update of each SIM Card's expiring date upon each new re-charge.

gemino can be programmed in few seconds via a PC linked through the USB port or by using the same port to upload the program from a flash memory with no need to take a PC with.

Quite distinctively, it is equipped with the communication KS-BUS in order to be linked with new LCD Keypad of the **ergo** series: through the Keypad is possible to control the **gemino**, make voice calls and program all **gemino**'s parameters; on the BUS is also possible to link the expander modules, thus offering the possibility to manage up to 10 inputs to activate SMS, voice calls or email, and 2 outputs, basically transforming a simple interface into a powerful communicator.

At last, it integrates on board 2 OC (open collector), which can be used to indicate a status (e.g. absence of a PSTN or GSM issues) or programmed to be remotely activated by SMS or CLIP taking advantage to the user recognition feature.

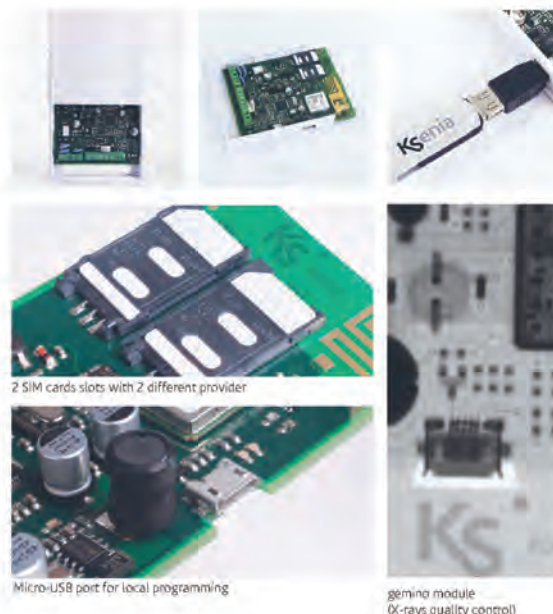
MAIN FUNCTIONS

- It decodes the Contact ID protocol and sends SMS up to 8 programmed numbers and/or emails to your smart phone, PC or to a Central Monitoring Station
- It incorporates a VOICE DIALLER and a TTS (text-to-speech) Converter
- It remotely manages outputs in order to activate or deactivate any desired automation or Home Appliance in general
- It delivers a solid back-up line to the PSTN line
- It has 2 open collector output, 500 mA rated
- Thanks to an expander module auxi, it can manage up to 10 inputs (only expandable version)
- It has 4 programmable inputs (only gemino4 version)
- Easy Scan. This function allows the user to know the best mobile operator in the plant location, even before any SIM insertion.
- Simulated PSTN line's generator for the connection to any Control Panel
- Decoding of the contact ID protocol and transmission via SMS and/or email (it allows to receive an SMS or emails for each Control Panel's zone)
- Transmission signaling through Contact-ID protocol via GSM net to Central Monitoring Stations (**gemino4** and **gemino exp.**)
- Decoding up to 200 Contact ID events
- SMSs and emails can have a length up to 128 characters, for a total of 200 messages associated to contact ID events
- Slots for 2 SIM cards (not included)
- Embedded Antenna + connector for external Antenna with automatic signal selection
- Micro USB port for programming and control
- High quality digital audio
- KS-BUS interface
- Linkable on the BUS to an ergo Keypad and up to 2 expander modules
- It can be managed and programmed also via system Keypad ergo by means of a dedicated cable (optional)
- Up to 10 inputs (using auxi expansion modules)
- Voice communicator with the possibility to record up to 200 messages for a total of 700 s
- Voice message recorder through the Keypad or through a TTS engine available from PC

- On board outputs: 2 OC up to 500 mA programmable as remote control on your mobile phone (via SMS or user recognition)
- Phone book; up to 100 phone numbers
- Programmable via PC through USB port or by a flash memory upload or via system Keypad ergo
- GSM Jamming Detection
- Telit EasyScan®
- Credit control on both pre-paid SIM cards

HOW TO ORDER

- **KSI4100010.300** - gemino expandable (PCBA only)
- **KSI4100010.310** - gemino expandable with slim plastic housing
- **KSI4100020.300** - gemino4 (PCBA only)
- **KSI4100020.310** - gemino4 with slim plastic housing
- **KSI4101000.300** - gemino BUS (PCBA only)
- **KSI4101000.310** - gemino BUS with slim plastic housing



vigilo Alarm Receiving and Centralizing Software

Product code **KSI7810500.000** - vigilo-pro software



TECHNICAL DATA

- CPU: Intel® Braswell Dual-Core Celeron N3000 Processor
- RAM: 2 GB Up to 8 GB DDR3L at 1600MHz
- Hard Disk: 64 GB M.2 SSD
- Graphic: Intel® HD Graphics
- LAN: 10/100/1000/Gigabits Mbps
- Wireless: 802.11 b/g/n, Bluetooth V4.0
- I/O: 2 x USB 3.0, 1 x Kensington Lock, 1 D-sub or 1 MiniDP, 1 x HDMI Port, 1 x RJ45 LAN, 2 x USB 3.1 Gen 1 Port, 1 x DC-in, 1 x Audio Jack (Mic in/Headphone out)
- Power: 45 W Power Adapter
- Dimensions: 13,1 x 13,1 x 4,2 cm (h x l x p)

HOW TO ORDER

- **KSI7810500.000** - vigilo-pro software - up to 500 systems

OPTIONALS

- **KSI7810000.000** - Online service contract for one year (after the first)
- **KSI7810000.100** - Ticket for each technical assistance out of contract

COMPLIANCE

Europe - RoHS, CE

vigilo deriva dal latino significa vigilare, essere attento.
vigilo derives from Latin and means monitor, pay attention to.

vigilo is the Alarm Receiving and Centralizing software by Ksenia Security.

Thanks to the enormous opportunities offered by their IP panels, directly connected to the network without need of additional transmission devices, or to the gemino GSM/GPRS Communicator, the next logical step offered by Ksenia is to allow, for example, Headquarters of a Credit Institute to centralize a very significant number of systems as well as to allow selected Ksenia installers to offer new and important services to their customers (for example tele-service and tele-maintenance). vigilo provides three levels of access (installer, operator, user) and does not require any application: just open an internet browser and connect to the IP address of the panel on which it is installed to display the system status. It also works with all operating systems including Android tablet or MAC OS.

The vigilo SW (not to be confused with the CMS-Central Monitoring Station SW) it is designed to be very simple, effective and still able to receive any events from systems connected to it. The number of such systems can reach up to 500 in "vigilo pro" version (professional).

Basically it is organized into three sections:

- **alert:** section dedicated only to those events programmed to be of priority such as alarms.
- **events:** section dedicated to receiving all events, even technicals
- **maps:** all systems connected to the SW are geo-localized on Google Maps to visualize them and enable the installer to define the most convenient itinerary depending on the intervention priority.

Both SW versions are preferably supplied on an industrial compact size PC, already pre-loaded, tested and protected in order to present to the installer a Plug&Play kit. This requires only to be powered and linked to the IP to give immediate access to the network of IP platforms lares..

SW and HW support is warranted and included in the price for a period of one year starting from the purchasing date.

COMMUNICATION MATRIX

		lares 4.0	lares wls 96-IP	Add-on 2G (lares 4.0 and lares wls)	Add-on 3G (lares 4.0 and lares wls)	Add-on PSTN (lares 4.0 and lares wls)	lares 16IP-48IP-128IP	gemino BUS (lares 16IP-48IP-128IP)	pontis (lares 16IP-48IP-128IP)	gemino 4 gemino exp.
Communications to the user	Vocal Messages			●	●	●		●	●	●
	SMS			●	●			●		●
	e-mail	●	●				●			●
Communications to the watches CMS/vigilo	Contact-ID (SIA DC-05)			●	●	●		●	●	●
	IP Protocols (SIA DC-09 Level III)	●	●	●	●		●	●		●
Remote Management Options	Arm/Disarm	APP	APP	Menu vocale SMS	Menu vocale SMS	Menu vocale	web-server	Menu vocale SMS	Menu vocale	
	Output managemen	APP	APP	ID Chiamate Menu vocale SMS	ID Chiamate SMS	Menu vocale	web server	ID Chiamate SMS	Menu vocale	ID Chiamate SMS
	Video verification	●	●		●		●			
	Audio verification (listen-in)			●	●	●		●	●	●
UP & Download	Programming Software (basis)						●			●
UP & Download	SecureWeb	●	●	●	●					



Keypad ergo-T

product code KSI2100040.302 - ergo-T



TECHNICAL DATA

IP interface: PoE - 200 mA
Power supply: 12 Vdc - 500 mA max
Display LCD: 7" TFT
Resolution: 1920x1200 (FHD)
Touch screen: Multipoint capacitive
CPU: Rockchip 3368 Octa core
GPU: Mali-400MP GPU
Operating System: Android 7.0
RAM: 2 GB
Nand Flash: 8 GB
WiFi: 802.11 b/g/n
SD Card Slot: Supporto TF card (max 32 GB)

PARTS INCLUDED

1 ergo-T keypad
1 attachment brackets
2 screws for DIN 503 box

HOW TO ORDER

• KSI2100040.302 - ergo-T

COMPLIANCE

Europa CE - RoHS

ergo dal latino significa ebbene, allora, dunque.
ergo derives from Latin and means then, therefore, at last.

ergo-T as 'TOUCHSCREEN', the latest generation multi-touch capacitive keyboard with extremely high contrast and resolution.

Ideal command and control interface for the new lares 4.0 control panel, the latter born from the 'ergo' series of keyboards; unlike all the numerous tablets on the market, it has been designed as a MULTIMEDIA CENTER from which it is possible to manage and program all the various functions in the area of both Security (therefore of Intrusion, Video-surveillance and Access Control) and also that which today is defined in a broad sense Home automation or SMART HOME - SMART BUILDING (i.e. the various management of Automation, Lights, Temperatures, Appliances, Irrigation, etc.) associated with a single scenario in the mix we want and that makes life easier both in the home and in a large commercial or industrial building.

With this objective, the ergo-T keyboard is ideally placed inside any DIN 503 or round wall box (60 mm pitch), both in the 7-inch and 10-inch format (T plus) powered and connected via PoE gateway (Power over Ethernet).

perché ergo
why ergo

- because it has a resolution of 1920x1200 even in format 7"
- because it allows to manage the control panel in complete security with a user experience that is very similar to that of mobile apps
- because it allows to see the cameras connected to the system without the need for additional devices
- because it can be powered both by 12V and by PoE port
- because it works also in WiFi in case of lack of wired connection

Keypad **ergo-T plus**

product code KSI2100041.302 - ergo-T plus



TECHNICAL DATA

IP interface: PoE - 300 mA
Power supply: 12 Vdc - 600 mA max
Display LCD: 10" TFT
Resolution: 1920x1200 (FHD)
Touch screen: Multi-point Capacitive
CPU: Rockchip 3368 Octa core
GPU: Mali-400MP GPU
Operating system: Android 7.0
RAM: 2 GB
Nand Flash: 8 GB
WiFi: 802.11 b/g/n
SD Card Slot: Supporto TF card (max 32 GB)

PARTS INCLUDED

1 ergo-T plus keypad
1 attachment bracket
2 screws for DIN 503 box

HOW TO ORDER

• KSI2100040.302 - ergo-T plus

COMPLIANCE

Europa CE - RoHS

- | | |
|--------------------------------------|---|
| ① Power supply 13,8 Vdc | ④ Fastening plate for DIN 503 and round (pitch 60 mm) boxes |
| ② 10/100 T + PoE ethernet connection | ⑤ Fixing screws |
| ③ Fastening | |



Keypad ergo S

Product Code KSI2100020.301 - ergo S white
KSI2100020.302 - ergo S black



TECHNICAL DATA

- **Wide Dot matrix LCD display:** viewing area 79 x 19 mm
- **Keys in Capsense Technology:** no mechanical press-buttons
- **Circular Scroll:** fast access to the menu
- Available in The Ksenia colors black and white
- **Proximity reader RFID / NFC**
- **Integrated Microphone and Speaker**
- **Remote listening function**
- **Accurate Temperature sensor**
- **Adjusting backlight and contrast**
- **Fast Addressing System:** no need to pre-set the device address (automatic recognition from the control panel / GSM communicator)
- **Master programming for gemino and duo universal**

NOTE: the Hardware includes a NFC Ready transceiver. You may need to use a dedicated application. (NOT INCLUDED)

CERTIFICATIONS

Europe - CE, RoHS

EN50131 grade 3 - class II

T031:2014



NEAR FIELD COMMUNICATION

Isn't this the Keypad we were all waiting for? Finally a clear and simple Keypad, beautiful and useful also as programming tool, it incorporates a proxy reader with NFC Technology, with no mechanical parts, versatile, modern, thin (less than 13 mm), it can be placed in every interior design.

MAIN FUNCTIONS

- **Display of System status**
- **Display of operating parameters:** date / time, GSM network active level GSM, etc.
- **System Commands:** complete or partial arming, reset, activation of output terminals, telephone calls, etc.
- **Full Programming of System Parameters / Central**
- **Programming local parameters:** audio volume, backlight level and LCD contrast
- **keyboard functionality Exclusion** for front cleaning purposes
- **Remote Listening**
- **Voice messages recording**
- **RFID/NFC Tag reading** to arm, and disarm and manage lares devices
- **High Precision temperature sensor.**

Near Field Communication (NFC) is a technology which delivers wireless connectivity (RF) bi-directionally and short-range (to a max. of 10 cm). It has been jointly developed by Philips and Sony. This NFC technology can be considered an evolution of the contactless RFID (Radio Frequency Identification) and similar technologies. NFC, contrary to other RFID devices, allows a bidirectional communication: when two NFC devices (Initiator and Target) are within a 4-8 cm radius, a peer-to-peer network is created and both can send and receive information. NFC works at a 13,56 MHz frequency and can reach a max. transmission speed of 424 Kbit/s.

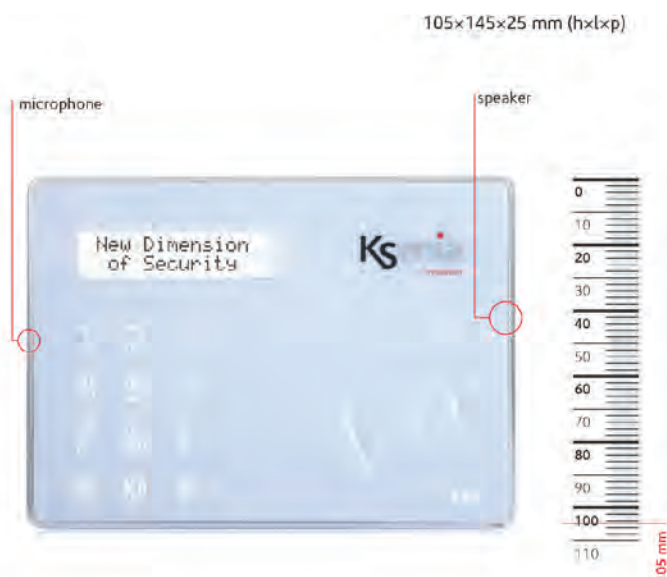
HOW TO ORDER

KSI2100020.301 - ergo S white

KSI2100020.302 - ergo S black

Keypad ergo

Product Code KSIZ100000.300 - ergo



TECHNICAL DATA

- LCD Display 16x2 (visible area 61x16mm)
- "CapSense" Technology (no mechanical press-buttons)
- Circular Scroll / quick menu access
- Available in 4 different colors
- RFID/ NFC Proximity Reader
- Integrated Microphone and Speaker for remote listening
- "Fast Addressing System" no need to pre-set the device address (automatic recognition from the Control Panel/GSM Communicator)
- 2 programmable inputs/outputs

MAIN FUNCTIONS

- Display of system status
- Display of functioning parameters: date/time, active GSM network, GSM level, etc
- System commands: complete or partial arming, reset, activation of outputs terminals, phone calls, etc.
- Programming of system parameters
- Programming of local parameters (audio volume, backlight levels)
- KP functionality exclusion for front cleaning purposes

CERTIFICATIONS

Europa - CE, RoHS,
EN50131 Grado 3 - Classe II
T031:2014
SSF1014 Larmklass 2



Isn't this the Keypad we were all waiting for?

CAPSENSE Keypad

ergo is a very advanced LCD Keypad carefully developed with the objective to capture a modern, minimalist and discreet style and an extremely slim profile (less than 1/2 inch.), which allows it to be positioned in any interior architecture thus expressing a new feeling of design, prestige and innovation.

Thanks to the "CapSense" Technology, here you won't see any of the ugly mechanical parts (like as membranes, buttons, plastic cover, etc.) which are typically available in other products and that are often the ideal dust location and the source of bad contacts. In the case of ergo the front is completely smooth and all desired functions can be implemented by simply touching upon the surface in the areas shown by the graphic (letters, symbols, circular-scroll mouse) in a very simple and rational manner. All available functions, as detailed below, are really a lot and surprising.

It can be customized in the 4 different Ksenia colors (White, Black, Red and metallic Grey), simply by removing the transparent cover and interchanging the internal cover (Lexan) with one of those included in the package envelope, such operation is meant to be so easy and safe that can be done by the end-user at any time.

Moreover, with no need of additional parts, it can be "flush-mounted" taking advantage of any std. box DIN 503, or just as it is on any wall (with no need of additional parts) or if desired even the desk-solution can be chosen thanks to the included stylish sustainer parts.

The ergo Keypad has been conceived not only to be linked to a Ksenia Intrusion Control Panel, but even to the Universal GSM/GPRS Communicator gemino, since, differently to other similar devices, it works also as "programming unit", making the installer's life much easier by avoiding the need of having a PC with for the Communicator programming.

HOW TO ORDER

KSIZ100000.300 - ergo keypad



Keypad ergo M

Product Code KSI2100021.301 - ergo M White
KSI2100021.302 - ergo M Black

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USER INTERFACES / ergo M



TECHNICAL DATA

- Display LCD dot matrix (visible area 79×19 mm)
- mechanical press-buttons (laser-routed)
- Available in The Ksenia colors black, white
- Integrated Speaker.
- Adjust backlight and contrast
- Fast Addressing System: no need to pre-set the device address (automatic recognition from the Control Panel/GSM Communicator)
- Master to programming for gemino and universal duo

MAIN FUNCTIONS

- Display of System status
- Display of operating parameters: date / time, GSM network active level GSM, etc.)
- System Commands: complete or partial arming, reset, activation of output terminals, telephone calls, etc.
- Full Programming of System Parameters / Panel
- Programming local parameters: audio volume, backlight level and LCD contrast
- Voice messages recording

CERTIFICATIONS

Europe - CE, RoHS,
EN50131 Grade 3 - Class II
T031:2014



Isn't this the Keypad we were all waiting for?

Finally a clear and simple Keypad, beautiful and useful also as programming tool, it incorporates a proxy reader with NFC Technology, with no mechanical parts, versatile (you can change the color in 3 seconds with a 'click'), modern, thin (less than 13 mm), it can be placed in every interior design.

MECHANICAL KEYPAD

The **ergo** Keypad has been conceived not only to be linked to a Ksenia Intrusion Control Panel, but even to the Universal GSM/GPRS Communicator **gemino**, since, differently to other similar devices, it works also as "programming unit", making the installer's life much easier by avoiding the need of having a PC with for the Communicator programming.

ergo M is laser-routed and mounts high quality switches to improve reliability.

We designed a custom display for having a large display area, and adjustable contrast and backlight. This display can show all character sets, including the Greek and Cyrillic, because of dot matrix technology. The total thickness of the devices is of only 14,5 mm.

ergo M are both available in White and Black.

*perché ergo S ergo M
why ergo S ergo M*

- **because** is a very advanced LCD Keypad carefully developed with the objective to capture a modern, minimalist and discreet style as well as an extremely slim profile (less than ½ inch.), which allows it to be positioned in any interior architecture thus expressing a new feeling of design, prestige and innovation.
- **because** with no need of additional parts, it can be "flushmounted" taking advantage to any std. box DIN 503, or just as it is on any wall (with no need of additional parts)
- **because** it can be used also to program the gemino GSM/GPRS Communicator and to record "personalized" messages to be associated to any alarm event.
- **because** it use cutting edge Technologies components, such as a digital mems (accelerometer) microphone.

HOW TO ORDER

Product Code KSI2100021.301 - ergo M White
KSI2100021.302 - ergo M Black



MAIN FEATURES	ergo M	ergo	ergo S
Wide Dot matrix LCD display (viewing area 79 x 19 mm)	●	○	●
Keys in Capsense Technology	○	●	●
Mechanical Keys	●	○	○
RFID/NFC proximity Reader (20 mm max TAGs capture area)	○	●	●
Integrated Microphone and Speaker	○	●	●
Remote Listening function	○	●	●
"Fast Addressing System" *	●	●	●
Accurate Temperature sensor (future use)	○	●	●
Adjusting backlight and contrast	●	○	●
Master programming for gemino and duo UNIVERSAL	●	●	●
Power supply	13,8 Vdc		
Consumption	15 mA standby 100 mA max		
Operating temperature range	5° -40° C		
Overall dimension	163 x 119 x 14,5 mm	105 x 145 x 25 mm	163 x 119 x 14,5 mm
Weight	240 g	180 g	240 g
Protection degree	IP 34		
White version	KSIZ100021.301	KSIZ100000.300	KSIZ100020.301
Black version	KSIZ100021.302	**	KSIZ100020.302
Certification	EN50131 Grado 3-classe II T031:2014 SSF1014 Larmklass 2***		

* "Fast Addressing System": no need to pre-set the device address

** Available in the 4 Ksenia main colors: white, black, grey and red. The inner colored interface masks are included one for each colors. Product Code KSIZ100000.300

***Certification valid for ergo keypad only.



Proximity readers **volo**

product code **KS12200000.300** - volo black
KS12200000.310 - volo white

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USER INTERFACES / volo



TECHNICAL DATA

- Power Supply: 13.8 Vdc
- Consumption: 40mA
- RFID: ISO 14443 (A+B) @ 13.56MHz
- Dimensions: 127x43x17 mm

PROGRAMMING

volo can be connected to the 4-wires KS-BUS and can be programmed directly from the Control Panel.

CERTIFICATIONS

Europe - CE, RoHS,
EN50131 Grade 3 - Class II
T031:2014



volo dal latino significa **volare, muoversi rapidamente.**
volo derives from Latin and means **fly, move quickly.**

volo is a device that allows, being linked on the KS-BUS, the user to manage the arming /disarming of the Ksenia Security System and more in general the activation/ deactivation of different scenarios programmed in terms of Home Integration, by means of mini-Tags and/or NFC-enabled smart-phones.

It can be installed either directly onto the wall (in vertical) or screwed onto the Box DIN 503 (with an optional black frame).

The device is fitted with an LED with 5 colors (red, green, blue, yellow, white) and each of them can be associated to a customizable scenario. It is very simple to activate a scenario: approaching a valid Tag or NFC-enabled Phone to the Proxy Reader, the LED will switch on in the color associated to the possible scenario, proposing automatically the most probable choice at first. To activate the desired scenario take the Tag or the Phone away when the LED is lit of the color related to that scenario: as acknowledge the LED will remain ON with the same color for other 3 seconds.

Its sober design allows the **volo** to be installed in every interior design. This device has been developed with an innovative tamper protection (against wall removal and opening): an accelerometer. This allows to avoid any mechanical switch and the related risk of deterioration, moist infiltration in Outdoor and to use it as a seismic detector with programmable sensitivity. Its plastic enclosure and the PCB protection treatment (full immersion in epoxy resin) allow its Outdoor Installation without additional protection.

PARTS INCLUDED

- volo proximity reader with a 2 meters long cable
- Quick Installation Guide
- 2 Fischer screws, diameter 5mm.

HOW TO ORDER

- KS1220000.300 - volo black
- KS1220000.310 - volo white



Pocket Mini-Tag

ACCESSORIES

- KS12200001.300 - Optional frame for DIN 503 mounting. Color black
- KS12200001.310 - Optional frame for DIN 503 mounting. Color white
- KS17600000.000 - Mini-Tag in black color with metal key-holder ring.



Proximity readers **volo-in**

product code **KSIZ200002.300** - volo-in



Scenarios identification multicolor LED: ○ ● ● ● ●

TECHNICAL DATA

- Power Supply : 13.8 Vdc
- Consumption : 40mA
- RFID : ISO 14443 (A+B) @ 13.56MHz
- Dimensions : 127x43x17 mm

PROGRAMMING

volo-in can be connected to the 4-wires KS-BUS and can be programmed directly from the Control Panel.

COMPLIANCE

Europe - CE
EN50131 Grade 3 - Class II
T031:2014

MAIN FUNCTIONS

volo-in is an proximity reader with NFC Technology.



volo-in is a proximity reader for indoor with acoustic signal / light evidence, directly connected to the BUS Ksenia, the management of an entry / disarm the system intrusion Ksenia Security or, more generally, the activation / deactivation of Nr. 5 scenarios programmed in optical automation, using the approach of the mini-tags enabled

The device uses the standard slot RJ45 jack to be added to any provision of any supplier of devices housed in standard box 503.

The device have a multi-color LED that can change colors: red, green, blue, yellow, white. For each of these colors you can be associated with a scenario freely programmable. It is very easy to activate a scenario: just bring a valid key to the reader, wait until the LED lights of the same color associated with the scenario, and remove the key.

To make up for unusual light conditions (overexposure), as well as to come in against the needs of users "Visually Impaired", you can also assign a different acoustic signal to all operations.

volo-in is equipped with a multi-tone buzzer to confirm the operations. To make it UNIVERSAL for all major plates, volo-in takes advantage from the standard square profile socket arising from the RJ45 Keystone socket used in a standard patch panel and other items of equipment. As such, the RJ45 flush socket will fit a standard pattern wall plate normally designed for light switches from a number of manufacturers

PARTS INCLUDED

- volo-in proximity reader
- Quick Installation Guide
- 2 Fischer screws, diameter 5mm
- 2 mini-TAG Ksenia

HOW TO ORDER

- **KSIZ200002.300** - volo-in

ACCESSORIES

- **KSIZ7600000.000** - Pocket Mini-Tag in Black color with metal key-holder ring.



Pocket Mini-Tag



auxi Expansion module

product code **KSI2300000.300** - auxi PCBA

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BUS PERIPHERALS / auxi



TECHNICAL DATA

- Voltage: 13,8 Vdc
- Current consumption: 20 mA (excluding terminal P and outputs)
- 1 Analog input 0 – 10 V
- Up to 5 alarm inputs (with programmable EOL)
- 1 Analog output 0 – 10 V, 20 mA (with 5 customizable thresholds)
- Up to 5 Open Collector outputs da 500mA each
- Power terminal: 0,5 A (protected by a self-restorable thermal fuse)
- PCBA dimension: 75x45x16 mm (l×h×p)

PARTS INCLUDED

- 1 auxi expansion module (PCBA)
- 4 sustainers for metal cabinet's mounting
- 1 Installation Manual

HOW TO ORDER

- **KSI2300000.300** - PCBA auxi

ACCESSORIES

- **KSI7300000.001** - Plastic box for DIN rail
- **KSI7302000.010** - Plastic box "slim" version

CERTIFICATIONS

Europe - CE
EN50131 Grade 3 - Class II
T014:2013
SSF1014 Larmklass 2



*auxi dal latino significa accrescere, aumentare, potenziare.
auxi derives from Latin and means to increase, to potentiate.*

auxi enables to increase up to 5 (or multiples with multiple modules) the numbers of programmable inputs (outputs) of the gemino GSM/GPRS Communicators and of the lares integrated Control Panels.

auxi configuration into the system is very fast, no need to configure any dip-switches: auxi will be automatically acquired by gemino or lares and identified univocally with its serial numbers that you can find impressed on the PCBA label.

Its dimension allow its insertion within a standard DIN 503 box for wall mounting or alternatively into the plastic box "slim" (Ksenia p/n KSI7302000.010) or into the metal cabinet (Ksenia p/n KSI7401000.010).

HOW TO PROGRAM

auxi is to be linked to gemino or lares through the 4 wires KS-BUS and has 5 terminals which can be configured as programmable inputs with End-of-Line resistors or OC outputs at 500 mA. One of the five terminals can be configured as analog input 0-10 Vdc while one of them as 0-10 Vdc analog output (only with lares panels).

auxi incorporates a non-volatile memory of the terminal programs which limits to 1000 times the number of re-programmings of the terminals in order to guarantee their correct functioning. The programming of the terminal functions (either input or output) are implemented during the programming of gemino or lares.

*perché auxi
why auxi*

- **because** with the same expansion module you can either increase the number of zones of the Control Panel or increase up to 10 the number of programmable inputs (outputs) of gemino expandable;
- **because** it is automatically and univocally configurable by means of its serial number: forget about having to adjust dip switches or assign addresses to them;
- **because** it is very small and therefore can be installed inside the wall within a standard DIN503 box;
- **because** all its 5 terminals can be programmed as Open Collector outputs up to 500 mA each;
- **because** all its 5 terminals can be programmed as inputs with EOL resistors;
- **because** 1 of its 5 terminals can be programmed as analog input 0-10 Vdc (only for lares Control Panels);
- **because** 1 of its 5 terminals can be programmed as analog output 0-10 Vdc (only for lares Control Panels).

auxi-H Expansion module

product code **KS12300005.300** - auxi-H PCBA



TECHNICAL DATA

- Up to 2 inter-locked relays output 250V-8A
- Up to 3 alarm input
- 2 input for local buttons
- Up to 6 different positions for the roller shutter
- Compact size: 45x75x16 mm
- Plastic box for installation on DIN guide
- Fast Addressing System on KS-BUS

PARTS INCLUDED

- 1 auxi-H expansion module (PCBA)
- 4 sustainers for metal or plastic cabinet's
- 1 Installation Manual

HOW TO ORDER

- **KS12300005.300** - PCBA auxi-H

ACCESSORIES

- **KS17300000.001** - Plastic box for DIN rail

COMPLIANCE

Europe - CE

perché auxi-H why auxi-H

auxi-H is a Module designed for the complete management of Windows/Doors equipped with motorized shutters. It provides 3 Zones for linking the necessary Protections of the Window (Magnetic Contact, Shutter Sensor, Inertial Sensor of Perimetral Barriers) and 2 inputs for managing the local activation buttons for the Shutter Automation.

Additionally it provides 2 interlocked relays outputs (8A-250V) for controlling the Shutter motors. From the Scenarios programmed on lars 4.0, not only it will be possible to open or close entirely the Window Shutters from your APP, but also to position them in 4 different Opening Positions (2/3 Opening, Half-Opening, 1/3 Opening and only Air-Circling). With local Buttons it is possible to manage it in the normal way, but also to manage the complete Opening or Closing with a Double-Click.

As all the other Expansion Modules of Ksenia Security, it's having very compact dimensions (only 70x45mm) enabling space savings, it can be installed either inside the DIN-503 Boxes and on DIN guide reducing dramatically the installation time.

auxi-H is to be connected to the Panel lars 4.0 by means of the 4 wires Serial KS-BUS.

- **because** it is possible to completely control with a single device a gate equipped with motorized roller shutters: it checks the engines, allows to move the shutters even when the system is switched on without deactivating the same, moreover one of the inputs can be configured to block the movement of the shutter (for example to connect a photocell)
- **because** it allows to manage not only the rolling shutters when opening and closing, but also to set them in intermediate position
- **because** it allows to know the opening status of the shutters remotely
- **because** it is flexible and fits with a simple jumper to the management of shutters or lights
- **because** the local buttons continue to work even in case of failure of the control panel

auxi 10in Expansion module

product code **KS12300003.300** - auxi 10in PCBA



TECHNICAL DATA

- Voltage: 13,8 Vdc
- Consumption: 20 mA (excluding terminal +P1 e +P2)
- 1 Analog input 0 – 10V
- Up to 10 alarm inputs (programmable EOL)
- 2 Power terminal 0,5A (protected by a self-restorable thermal fuse)
- PCBA dimension:: 45x75x16mm (l×h×p)

HOW TO ORDER

- **KS12300003.300** - auxi 10in PCBA

ACCESSORIES

- **KS17300000.001** - Plastic box for DIN rail

PARTS INCLUDED

- 1 auxi 10in expansion module (PCBA)
- 4 sustainers for metal cabinet's mounting
- 1 Installation Manual

CERTIFICATIONS

Europe - CE
EN50131 Grade 3 - Class II
T031:2014



auxi 10in is an input expansion module for lares control panel, and gemino communicator series. It was born to offer a solution to increase the number of inputs, in particular on medium/large systems; the result is the dramatically reduction of the number of devices to be connected on the bus and of the space occupied.

This also means the reduction of the time and thus the installation costs and also increasing reliability. The dimensions are extraordinarily compact, the same of traditional auxi device. It is equipped with trolley terminal blocks of the same size of traditional auxi.

It acts like two 5 terminals "auxi"; so it can be used on existing systems. A simple firmware update of "lares" makes it compatible

PROGRAMMING

The programming of the terminal functions is implemented during the programming of gemino or lares. auxi 10in has to be linked to the gemino or lares via the KS-BUS. Its 10 terminals can be configured as programmable inputs with End-of-line resistors.

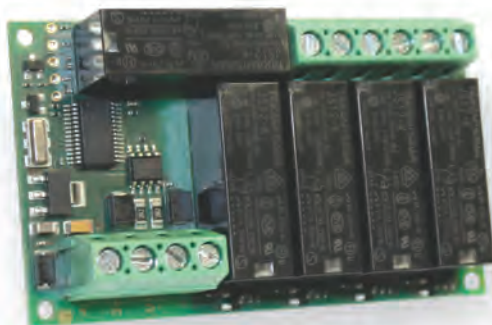
"auxi 10in" program directly from the lares Control Panel.

perchè auxi 10in why auxi 10in

- **because** with only one expansion module you can extend the number of input terminals available on your system
- **because** it is automatically configurable by means of its serial number: no need to adjust dip-switches on board
- **because** it is very small and therefore can be installed inside the wall within a standard DIN503 box
- **because** each terminal can be programmed as inputs with different EOL resistors
- **because** all the terminals can be programmed to directly manage the shutter and inertial sensors, without need for any external analysis card
- **because** It can be housed in a suitable plastic box for fixing on DIN rail

auxi-L/ auxi relay Expansion modules

product code **KSI2300004.300** - auxi-L PCBA
KSI2300001.300 - auxi relay PCBA



TECHNICAL DATA

- Up to 5 relays output 250V-8A (10A peak)
- KS BUS interface
- Compact size (45x75x16 mm)
- Plastic box for installation on DIN guide
- Fast Addressing System on KS-BUS

TECHNICAL DATA auxi relay

- Voltage: 13,8Vdc
- Current consumption: 100mA max.
- Up to 5 relays outputs 1A
- PCBA dimension: 75x45x16 mm (lxhxp)

HOW TO ORDER

- KSI2300004.300 - auxi-L PCBA
- KSI2300001.300 - auxi relay PCBA

ACCESSORIES

- KSI7300000.001 - Plastic box for DIN rail
- KSI7302000.010 - Plastic box "slim" version

PARTS INCLUDED

- 1 auxi-L/ auxi relay expansion module (PCBA)
- 4 sustainers for metal cabinet's mounting
- 1 Installation Manual

COMPLIANCE

Europa - CE

auxi relay

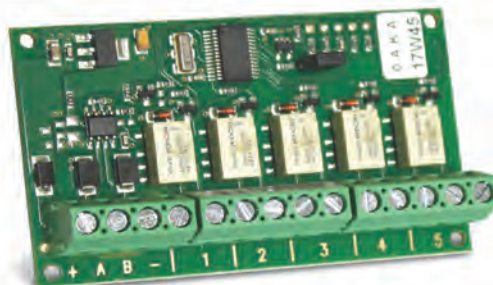
auxi-L is an Expansion Module with 5 Relays outputs operating at 250V-8A (10A peak), with 1 common Terminal, ideal for Light Management and for disconnecting Appliances.

As all the other Expansion Modules of Ksenia Security, it's having very compact dimensions (only 70x45mm) enabling room savings, it can be installed either inside the DIN-503 Boxes and on DIN guide reducing dramatically the installation time.

"auxi-L" is to be connected to the lares Panel and lares 4.0 by means of the 4 wires Serial KS-BUS.

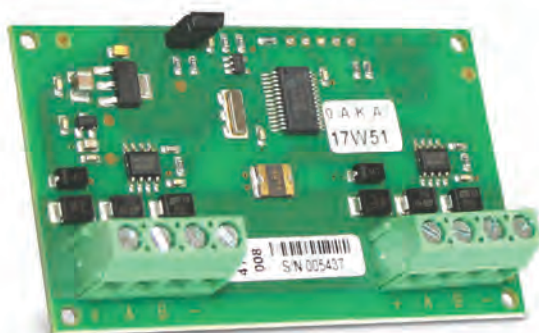
auxi relay has 5 relay outputs 1A which may be used for manage all kind of loads in lares Control Panel series

auxi relay is programmed directly from lares Control Panel.



divide BUS Isolator & Repeater

product code **KSI2500000.300** - divide



TECHNICAL DATA

- Power Supply: 13,8Vdc
- Consumption: 20mA
- 2 4-wires KS-BUS terminal (specular in connection)
- Board Dimension: 45x75 x16 mm

PARTS INCLUDED

- 1 Module KSI2500000.300
- 1 Quick Installation Guide
- 4 Plastic sustainers (for installation into "slim" box or metal cabinet)

HOW TO ORDER

- KSI2500000.300 - PCBA divide

ACCESSORIES

- KSI7300000.001 - Plastic box for DIN rail
- KSI7302000.010 - Plastic box "slim" version

CERTIFICATIONS

Europe CE
EN50131 Grade 3 Class II
T031:2014



*divide dal latino significa dividere.
divide derives from Latin and means subdivide.*

divide BUS Isolator & Repeater is a separation board for the KS-BUS

divide allows you to separate the KS-BUS in order to:

- dissect a part of the system so that any failure or sabotage of devices will not generate disservice on the whole network;
- boost the signal on the BUS; this amplification allows to increase the extension of the BUS for further 500 m.

Given the nature of the device are not necessary programming of any kind: the central and / or devices continue on the BUS to "detect" the other in a transparent manner.

PROGRAMMING

No programming needed.

opis Supervised Power Supply Station

Product code **KSI2400001.300** - Power Supply Station
KSI2400000.300 - PCBA only



TECHNICAL DATA

- 18 Ah battery management
- Operating Range: 12 - 15 Vdc
- Consumption: 50 mA stand-by 950 mA max
- Operating temperature range: -10 +55 °C 95% Humidity
- Dimensions: 115x60x20 mm (PCBA)
- Weight: 50 g
- Maximum current available for external devices: 1400mA grade 2 - 200mA grade 3

PARTS INCLUDED

- 1 PCBA opis
- 1 Installation Manual
- 1 Large metallic box 325x400x90 mm
- Switching Power Supply 12Vdc - 3.0 A
- 2A Fuse

HOW TO ORDER

KSI2400001.300 - Power Supply Station
KSI2400000.300 - PCBA only

ACCESSORIES

KSI7403130.010 - Large metallic cabinet with 3.0 A Power Supply

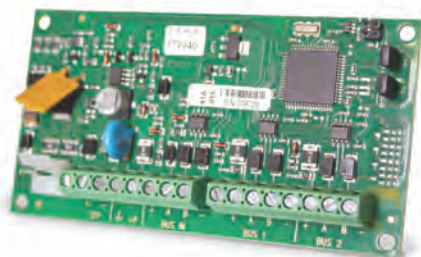
CERTIFICATIONS

Europe - CE
EN50131 Grade 3 - Class II
T031:2014



*opis dal latino significa risorsa, ricchezza, assistenza, appoggio.
opis derives from Latin and means redouble.*

opis is a device that allows to extend the BUS on two additional branches. The power supply to the branches it is provided by the same opis, protected by an 1,5 A auto restoring thermal fuse.
The device is fully supervised by the panel, with BUS status, power supply voltage and battery charge informations.



Detail of PCBA



The complete power supply station with 3A switching power supply, PCBA and 2A fuse

domus Multi-function sensor

product code **KSI2700000.300** - domus

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BUS PERIPHERALS / domus



TECHNICAL DATA

- Power Supply: 13,8 Vdc
- Consumption: 10mA max
- Temperature sensor ($\pm 0,2$ °C)
- Humidity Sensor ($\pm 2\%$ RH)
- PIR detector, 6 meters capacity, 5 rays, opening: 45°
- Light sensor
- Compatible with opera Keystone
- KS-BUS interface

HOW TO ORDER

- KSI2700000.300 - domus

PARTS INCLUDED

- 1 domus Multi-function sensor
- 1 Quick Installation Guide ITA/EN

COMPLIANCE

Europe - CE

domus dal latino significa, casa, abitazione.
domus derives from Latin means home, house.

domus is a built-in module which, like the RFID reader for volo-in access control, uses the Keystone opening (of identical size on any series of switch plates) to insert a new device that allows, for each room, to have in a single device a motion detector, a temperature sensor, relative humidity and light intensity.

Ideal in home automation, in combination with auxi-L module, it allows to switch lights on and off depending on the internal brightness, whenever someone is in the room.

It also has a temperature and humidity sensor, produced by Sensirion (world leader in the production of these devices) and able to drive and manage at best its own air conditioning and dehumidification system, in order to obtain the real degree of comfort desired.

It becomes indispensable for office environments and for the correct humidification required in museums for the best conservation of art works.

domus is the ideal device for temperature control in the residential area and not only: it can be easily installed in any environment.

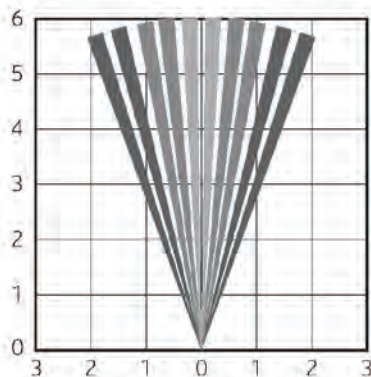
Thanks to the chronothermostat available on lares 4.0 control panel, it is possible to adjust the temperature comfortably and anywhere, adapting the level of comfort to the use of the environment with significant energy savings.

Thanks to the flexibility of lares 4.0 control panel it can control both heating and conditioning devices.

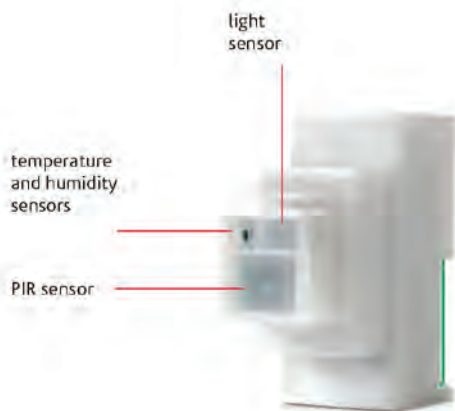
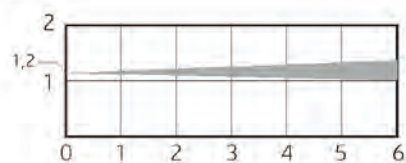
domus connects to lares 4.0 control panels via KS-BUS 4-wire serial BUS and is programmed directly from the control panel.

COVERAGE AREA

TOP VIEW



SIDE VIEW



perché domus
why domus

- **because** in a single device there are 4 sensors, and this allows its use in the most various applications
- **because** thanks to its dimensions it occupies only one module of box 503
- **because**, thanks to its design, it fits into a keystone adapter, ed it is therefore compatible with any electrical civil series
- **because** it has one of the best temperature and humidity sensors on the market, its positioning on the front of the device with a minimum opening also allows an accurate measurement of the real parameters of the environment
- **because** it connects quickly with the 4-wire BUS, and it is completely manageable by lares 4.0 control panel

radius Indoor siren & Emergency Light

product code **KSI6101000.310** - for KS-BUS only



TECHNICAL DATA

- Ultra-modern design with additional Emergency Light function
- Acoustic and Lighting signal in case of wire-cutting action
- 1 input for the alarm
- 1 input for the main 3 W power LED only
- Auto-learning of input polarity
- High Sound Pressure Piezoelectric Buzzer (>100 dBA at 1m)
- Integrated Temperature Sensor: $\pm 0,1^{\circ}\text{C}$
- Back-up Battery
- Temperature Range: from $+5^{\circ}$ to $+40^{\circ}\text{C}$
- Dimensions (W x H x D): 102x142x37 mm max
- Weight (with Battery): 300 g

PARTS INCLUDED

- 1 Siren complete with PCBA and battery
- Set of 4 colored covers
- 1 Quick Installation Guide in ITA/EN

HOW TO ORDER

KSI6101000.310 - KS-BUS version

ACCESSORIES

- **KSI7207008.00** - Lithium-Ion Battery 7,4 Vdc-850 mAh

CERTIFICATIONS

Europe CE
EN50131- 4 Grade 3 class II
T031:2014



radius dal latino significa fascio di luce, raggio.

radius derives from Latin and means ray, radius.

The **radius** self-powered indoor siren is actually a **professional (acoustic & optical) Sounder** which shows a unique and exclusive design, extremely slim (max. 37 mm thick) associated with a modern technology aimed to combine the best possible performances with the maximum energy saving: very high sound pressure, 3W power LED Alarm Light which also acts as **emergency light in case of main power's black-out**. The siren is fully controlled by a microprocessor which checks the possible status of the device and sends the appropriate signal.

radius, like as the **ergo** keypads, has been designed to be fully flexible even from a chromatic stand point of view to be easily and superbly integrated in any kind of interior design: as a matter of fact, its design allows the end user to take advantage of 4 different colors, i.e. white, metallized grey, red and black. With regard to its function, **radius** is available with 2 inputs to activate the acoustic and optical signals, which thanks to the programming of the inputs polarities are easy to be linked to any Control Panel (Universal version only). The first time you power up it, the siren reads all the inputs and associates them to the correct polarity and stand-by status with no need to program them manually, saving the programming itself on a non-volatile memory; either they are inputs with positive or negative command, or with or without intrinsic security (command to miss or to give), **radius** links any of them with the associated function.

The battery is steadily monitored and its malfunctioning immediately signalized to the Control Panel. On top of the automatic protection for preventing wire-cutting actions, **radius** is protected by 2 tamper switches against cover opening and against removal from the wall. In the KS-BUS communication's version (only for lares Control Panels) the siren is equipped with a precision temperature sensor to display the indoor temperature in the **ergo** Ksenia keypads and for Home Automation applications.

PROGRAMMING

radius is linked to the lares Control Panel by means of the 4-wires serial KS-BUS and it can be easily programmed from the Control Panel.



1



2



3



4

1. detail of radius colored interchangeable cover.
2. radius with Black lexan cover.
3. Lithium-Ion battery
4. Disassembled

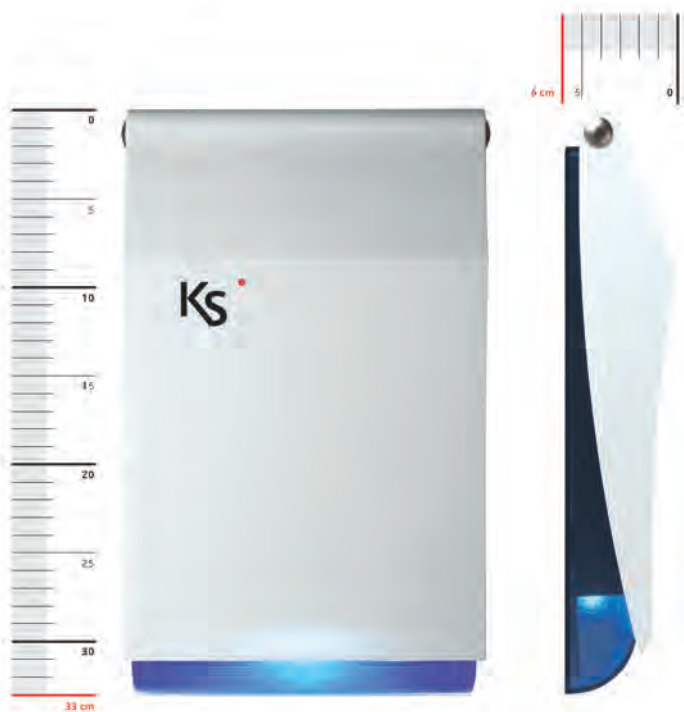
perché radius
why radius

- **because** it has a design that perfectly matches with ergo keypads, with whom it often shares the installed environment.
- **because**, like ergo keyboard, it can be customized in 4 Ksenia colors (white, black, grey and red) simply replacing the internal cover (included in the package).
- **because** it has a high luminous efficiency LED that, in addition to signaling the alarm, can be activated in case of electric blackout and therefore act as an emergency light.
- **because** it has an integrated temperature sensor.
- **because** it can be installed in a few minutes and can be configurated quickly, even remotely thanks to KS-BUS connection.

imago Outdoor siren

product code **KSI6300000.3XX** - Universal
KSI6301000.3XX - for KS-BUS only - in different colors

INDOOR AND OUTDOOR SIRENS / imago



TECHNICAL DATA

- **Ultra modern design:**
with original and convenient rotating opening
- **Solid Polycarbonate UV-resistant housing:**
min. 3 mm thickness
- **Front available in different chromatic solutions:**
(various colors available)
- **Transparent bottom:** in orange, red and blue
- **Strong metal undercover** against smashing
- **Wire-cutting action protection**
- **Input for alarm activation:**
(Universal version only): 1
- **Input for the main 3 W power LED :**
(Universal version only): 1
- **Input for the 2 high-efficiency signalling red LEDs:**
(Universal version only): 1
- **Auto-learning of input polarity**
- **High Sound Pressure Piezoelectric Buzzer:**
>100dBA at 1m
- **Alarm Duration's Setting**
- **Tamper Exclusion Programmable:**
(Universal version only)
- **Battery Efficiency Control and signaling output:**
500mA OC
- **Integrated Temperature Sensor:**
(BUS version only): precision $\pm 0,1^{\circ}\text{C}$
- **PCBA Sealing:** (Conformal Coating)
- **Back-up Battery:** 6Vdc-1,2Ah
- **Temperature Range:** from -30° to $+60^{\circ}\text{C}$
- **Protection degree:** IP 43
- **Dimensions:** (WxHxD): 195x330x60 mm
- **Weight:** (without Battery): 1,200 Kg
- **Weight:** (with Battery): 1,500 Kg

imago dal latino significa aspetto, idea, concetto.

imago derives from Latin and means aspect, idea, concept.

imago is available with 3 inputs to activate the acoustic and optical signals, which thanks to the programming of the inputs polarities are easy to be linked to any Control Panel (Universal version only).

The first time you power up it, the siren reads all the inputs and associates them to the correct polarity and stand-by status with no need to program them manually, saving the programming itself on a nonvolatile memory; either they are inputs with positive or negative command, or with or without intrinsic security (command to miss or to give), **imago** links any of them with the associated function.

The battery is steadily monitored and its malfunctioning or discharge immediately signaled to the Control Panel. On top of the automatic protection for preventing wire-cutting actions, **imago** is protected by 2 tamper switches against cover opening and against removal from the wall.

Moreover, in spite of its very slim profile, it hides a strong metal undercover against smashing. The housing is made of very high-quality

anti-UV polycarbonate and its mechanical characteristics are meant to guarantee a long time resistance against all weather conditions. In the KS-BUS communication's version (only for lares Control Panels) the siren is equipped with a precision temperature sensor Compass Opening for to display the outdoor temperature in the **ergo** Ksenia Keypad and for Home Automation applications.

imago is available both in the Universal version and in the BUS version.

All **imago** plastic parts are in high-quality thickness. Polycarbonate with anti-UV protection and IP43 degree against the worst weather conditions.

Compass Opening for the easiest mounting and installation with strong 6mm inox Steel Bolts.

imago Outdoor siren



Detail of rotating opening and metal undercover

PARTS INCLUDED

- 1 Siren complete with PCBA and metal undercover
- 2 sets 6 mm Dia. Bolts & Nuts
- 1 Quick Installation Guide

ACCESSORIES

- KSI7203002.000 - Battery 6Vdc-1,2 Ah

COMPLIANCE

- Europe - CE
- Europe - EN50131-4 grade 3

PROGRAMMING

In the KS-BUS version, **imago** is linked to the **lares** Control Panel by means of the 4-wires serial KS-BUS and it can be easily programmed from the Control Panel. In the stand-alone version, **imago** is equipped with 3 programming jumpers:

- one for choosing max. Alarm Duration (3 or 10 minutes);
- one for Tamper Exclusion (in case of siren opening, only the tamper relay is activated or even the Alarm functions sound and lights);
- one for Resetting the 3 inputs polarity programming.

HOW TO ORDER

Ksenia finished product:

- KSI6300000.3XX* - Universal
- KSI6301000.3XX* - KS-BUS version

(*) The code suffix 3XX indicates the different color option.
e.g. 318 Is the code for a white cover with red bottom **imago**.

Ksenia covers only:

- KSI6901000.3YY** - cover only (both versions)
- (**) The code suffix 3YY indicates the different color option.
e.g. 340 Is the code for a beige cover.

Ksenia bottom only:

- KSI6901000.30Z*** - bottom only (both versions)
- (***) The code suffix 30Z indicates the different color option.
e.g. 307 Is the code for a orange bottom.

AVAILABLE COLOURS

Cover



Transparent background



unum Indoor Motion Detector

product code **KSI5101000.300** - unum
KSI5101000.300 - unum Pet Immune



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MOTION DETECTORS / unum



*reliable
motion detectors*



pet-immunity



*low power
consumption*



unique design

TECHNICAL DATA

- **IR Sensor:** Dual-Element-Pyroelectric
- **Power Supply:** 8-16 Vdc; 24 mA at 12 Vdc
- **Alarm Relay:**
Solid State, 60V, 50 mA, isolation 1500 Vrms
- **Tamper Switch:**
Form A contact, normally closed (NC)
50 mA at 30 Vdc
- **Events Detection:**
HighBar false alarm rejection processor
- **RF Immunity:**
20 V/m, 10-1000 MHz; 10 V/m, 1-2 GHz
- **White Light Immunity:** 6500 lux
- **Sensitivity:** Selectable: 2-event or 3-event
- **Operating Temperature Range:** -10 °C to +55 °C
- **Housing Material:** Base: ABS, Cover: HDPE
- **Overall Dimensions:** 113x60x45 mm (HxWxD)
- **Pet immunity:** up to 10 Kg

HOW TO ORDER

- **KSI5101000.300** - PIR
- **KSI5101000.300** - PIR + Pet Immune

ACCESSORIES

- **KSI5900000.000** - Wall-Mounting Bracket

unum dal latino significa **unico**.
unum derives from Latin and means **unique**.

It can be translated in different appropriate meanings:
it incorporates the lens in the front housing, it has the same profile for all technologies (from simple PIR to Dual-Tech) and, for all the above, is unique in the industry.

**perché unum
why unum**

- **because** they are "state-of-the-art" Professional Motion Detectors realized with the very best components and materials to guarantee, at first place and without compromises, the highest possible degree of reliability available from the most modern Technologies;
- **because** they have a unique aesthetic - minimalist and discreet different from the rest, being the result of many studies and suggestions collected from Interior Architects and End-users, who wanted something that could actually merge, integrate with their architecture styles to the point to become themselves active players to that instead of being something "not too nice but necessary to be installed" to the purpose of having an intrusion system up and running;
- **because** unum detectors apply the new ELT Technology (Embedded Lens Technology), which takes advantage from decades of experience

in designing professional lens for motion detection purposes, thus enabling to achieve the objective to literally make the lens disappearing from the detector profile, thanks to very sophisticated techniques which also use the same special material of the lens (HDPE), to basically allow it to be fully embedded, completely integrated in the front cover itself;

- **because** they do not need, unlike other products in the market, to have on their front side all those colored lights (LEDs) which very often the installers need to disable because too annoying for the end-customers;
- **because** all the different detector models, although having different functions, like as the simple PIR or Dual-Tech, with or without Pet Immunity, all of them have the same design and size, so to avoid the unpleasant view of different detectors shapes on the walls, too often in the same room or environment;
- **because** they have a truly wide operating temperature range;
- **because**, they are eco-friendly, in line with Ksenia Security Company's belief, all unum utilize components like as DSP ASIC with very low consumption.

MAIN FUNCTIONS

Alarm processing

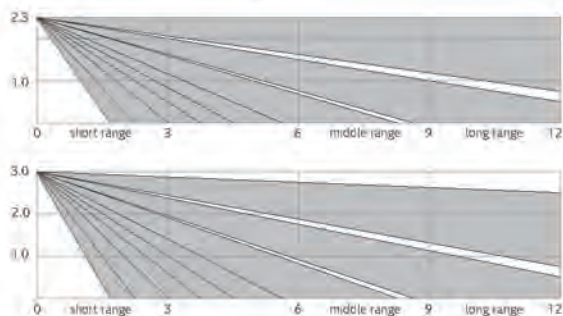
Dual-element detector fields-of-view alternate between (+) and (-) polarity. HighBar-qualified signal events are counted as "pulses" exclusively when polarity alternates. Depending on sensitivity setting, (+,-), (-,+), (+,-,+) or (-,+,-) will cause an alarm.



Range

12 meters in sensor-facing direction

12 meters at 45° angle from sensor-facing direction



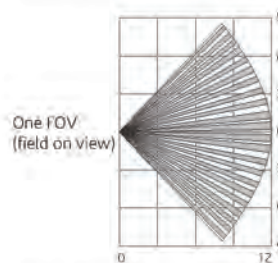
Sensor Optical View Pattern: side view, in meters

Optical Fields-of-View

Long-range: 44°

Mid-range: 36°

Short-range: 18°



Sensor Optical View Pattern (top view, in meters)

The PIR Motion Detectors unum are professional state-of-the-art motion sensors engineered with the world's best components and materials. These detectors provide the highest degree of reliability in motion detection, without the risk of false alarms.

Additionally the unum series introduces in the market the only detectors with trendy invisible lens, i.e. the lens integrated into the front cover thanks to E.L.T. (Embedded Lens Technology) which takes advantage from decades of experience in designing professional lens.

The PIR side starts with a EvenEye lens and a top-quality infrared detector.

Next, a modern DSP ASIC (patent-pending) converts the infrared detector signal into digital form, for best reliability and stability. Finally, the signal is evaluated by the ASIC's HighBar processor, for "best-in-class" false alarm rejection with excellent intruder detection.

PET IMMUNITY

The PI-PIR Motion Detector unum is designed to allow the presence of pets (10 kg or lighter) without signaling an alarm. It includes a special micro-element lens array that produces much stronger optical signals for humans than for pets. Furthermore, the optical sensitivity of each PI-PIR Motion Detectors unum is factory-calibrated to ensure accurate discrimination between humans and pets.

The diagram below shows the PI-PIR Motion Detectors unum's zones of greatest human/pet discrimination. The PI-PIR Motion Detectors unum should be mounted so that pets will occupy only the lighter-colored spaces.



unum Dual-Tech Motion Detector

product code **KSI5102000.300** - unum DT
KSI5102100.300 - unum DT + Pet Immune



TECHNICAL DATA

(in addition to what stated above)

- **Microwave Operating Freq.:**
around 10GHz (see unit label)
- **Events Detection:**
Sure Spot processing engine
- **RF Immunity:**
20 V/m, 10-1000 MHz; 10 V/m, 1-2 GHz
- **Microwave Range:**
20%-100% adjustable
- **Lighting rejection:**
selectable 50 or 60 Hz
- **Pet Immunity:**
Up to 10 Kg

HOW TO ORDER

- **KSI5102000.300** - DT
- **KSI5102100.300** - DT + Pet Immune

ACCESSORIES

- **KSI5900000.000** - Wall-Mounting Bracket

CERTIFICATIONS

Europe - RoHS, CE
 EN50131 Grade 2 - Class II



DT Motion Detectors unum include two motion sensing systems: microwave Doppler motion sensing and PIR motion sensing. Together, the two systems' signals are evaluated by proprietary signal processing algorithms, which reject false alarm conditions while detecting intruders. The DT Motion Detector unum microwave system includes a modern, compact, DRO-based micro-strip Doppler transceiver, with PCB "patch" antennas. The Doppler signal is digitally processed to detect intruders and reject distractions. Constant-motion signals (such as fans) are deemphasized, and fluorescent light frequencies are digitally removed. The PIR side starts with a Even Eye lens and a top-quality infrared detector. Next, a modern DSP ASIC (patent-pending) converts the infrared detector signal into digital form, for best reliability and stability. Finally, the signal is evaluated by the ASIC's HighBar processor, for "best-in-class" false alarm rejection with excellent intruder detection.

The DT-PI unum series join the advantages of the Dual-Technology described above and Pet Immunity. The best Technology to server the customer.

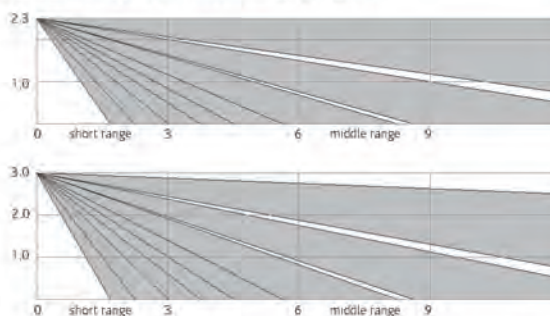
The DT-PI detectors should be mounted so that pets will occupy only the lighter-colored spaces.



Range

12 meters in sensor-facing direction

12 meters at 45°angle from sensor-facing direction



Sensor Optical View Pattern: side view, in meters.

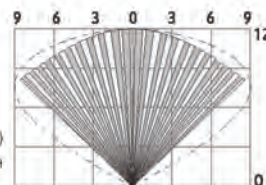
Optical Fields-of-View

Long-range: 44°

Mid-range: 36°

Short-range: 18°

One FOV (field on view)
 Microwave detection area



Sensor Optical View Pattern (top view, in meters)

unum DT Anti-Masking Motion Detector

product code **KSI5102010.300** - unum DT + AM
KSI5102110.300 - unum DT + AM + Pet Immune



The motion detectors unum DT + AM are professional motion detectors of who use the benefits of the Dual-Technology, pet immunity and anti-masking. They represent the top range of detectors for indoor of Ksenia Security. The unum DT + AM detector integrates directly on the card end of line resistors, selected to fit each plant type with comfortable removable jumpers.

OPERATION OF ANTI-MASKING

The mask is detected by two analysis, running simultaneously: the first is an alteration of normal balance between alarm signals from Infrared (PIR) and microwave derived from the analysis continuous signal, using a reduced sensitivity of the microwave to minimize the effect of continuously moving objects that could affect only the microwave.

You can disable this type of analysis acting on a jumper.

The second analysis is based on an area of supervision (within one meters from the sensor): a person entering in the safe zone will activate the detection process of masking.

This second function cannot be disable

TECHNICAL DATA

- IR Sensor: Dual elements
- Power Supply: 8-16 Vdc; 38 mA at 12 Vdc
- Alarm and Mask Relay:
 - Solid state, 60V, 50 mA, 1500 Vrms isolation
- Tamper Switch: Form A (NC); 50 mA at 30 Vdc
- Microwave Operating Freq.:
 - around 10GHz. See unit label
- Events Detection: Sure Spot™ processing engine
- RF Immunity:
 - 20 V/m, 10-1000 MHz; 10 V/m, 1-2 GHz
- White Light immunity: 6500 lux
- Pet immunity: Up to 10 Kg.
- Sensitivity: Selectable: 2-events or 3-events
- Range: Microwave 20%-100% adjustable
- Lighting rejection: selectable 50 or 60 Hz.
- Operating Temperature Range:
 - from -10 °C to +55 °C
- Storage: from -40 °C to +60 °C
- Housing Material: Base: ABS; Front: HDPE
- Dimensions: 113 x 60 x 45 mm (H x W x D)
- Weight: 95 g

HOW TO ORDER

- KSI5102010.300 - DT + AM
- KSI5102110.300 - DT + AM + Pet Immune

ACCESSORIES

- KSI5900000.000 - Wall-Mounting Bracket

COMPLIANCE

Europe - RoHS, CE



ianitor outdoor Triple-Tech Anti-Masking & Pet Immune Motion Detector

product code **KS15303010.300** - ianitor



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MOTION DETECTORS / ianitor



*ianitor dal latino significa custode, guardiano.
ianitor derives from Latin means custodian, guardian.*

The ianitor TRIPLE TECH. Motion Detector is a professional Pet-Immune state-of-the-art motion sensor engineered with the world's best components and materials, specially designed for installation externally, to ensure the highest degree of reliability in the detection of movement even in the most severe temperature and humidity situations, without incurring in false alarms that would be generated by many causal commonly found in open spaces.

The ianitor TRIPLE TECH

Motion Detector microwave system includes a modern, compact, DRO-based micro-strip Doppler transceiver, with PCB "patch" antennas. The Doppler signal is digitally processed to detect intruders and reject distractions. Constant-motion signals (such as fans) are de-emphasized, and fluorescent light frequencies are digitally removed. The optical side starts with a EvenEye lens and a top-quality specially-designed DFIR infrared detector.

Next, a modern microcontroller converts the infrared detector signal into digital form, for best reliability and stability. Finally, the signal is evaluated with anti-sway processing, for "best-in-class" false alarm rejection with excellent intruder detection.

MOTION DETECTION SYSTEMS

ianitor TRIPLE TECH. Motion Detector includes two motion sensing systems: one microwave Doppler motion sensing, one PIR and one DFIR (Double Frequency PIR) motion sensing, with directional motion sensing to reject false alarms caused by swaying objects. Together, the two systems' signals are evaluated by proprietary signal processing algorithms, which reject false alarm conditions while detecting intruders.

ANTI-SWAY FUNCTION

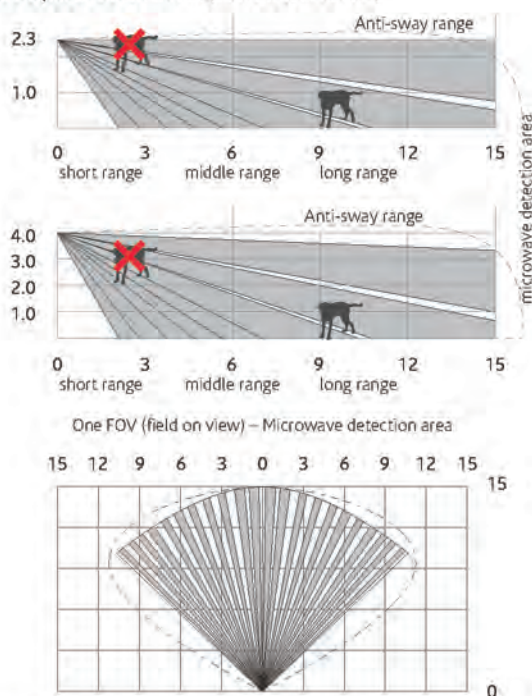
ianitor TRIPLE TECH Motion Detector is a motion sensor, and it will normally detect swaying motion.

However, the outdoor environment may contain swaying objects that are not intruders (for example, wind-blown trees). Thus, to suppress "nuisance alarms", the ianitor TRIPLE TECH. Motion Detector provides an "anti-sway" function to require that, before motion is indicated, a moving object must make directional progress across the sensor's fields of view. This function can be enabled or disabled by a programming jumper. Obviously, with this feature enabled, you must an extended in front of the sensor is needed to Report an alarm. For details please refer to installation instructions.

Range

15 meters in sensor-facing direction

15 meters at 45° angle from sensor-facing direction

Sensor Optical View Pattern (side view, in meters)**Optical Fields-of-View**

Long-range: 88 Mid-range: 38 Short-range: 26

Sensor Optical View Pattern (top view, in meters)**TECHNICAL DATA**

- IR Sensors (2): Dual-element + Quad-element
- Power Supply: 8-16 Vdc; 50 mA at 12 Vdc
- Alarm Relay: Solid state, Form A (NC) 50 mA at 30 Vdc, 1500 Vrms isolation
- Alarm, Trouble Signal Outputs: NPN open-collector to (-), 50 mA Max., NC no alarm; NC no trouble
- Housing Material: PC housing, HDPE lens
- Dimensions: 171x76x61 mm (hxd) (hxd)
- Microwave Operating Freq: Around 10 GHz See unit label
- Events Detection: DFIR anti-sway false alarm rejection processor
- RF Immunity: 20 V/m, 10-1000 MHz; 10 V/m, 1-2 GHz
- Pet-Immunity: up to 20 Kg
- White Light Immunity: 25000 lux
- Operating Temperature Range: -10 °C to +55 °C
- Storage: -40 °C to +60 °C
- IP protection: IP65
- Weight: 270 g

HOW TO ORDER

- KSIS303010.300 - ianitor

ACCESSORIES

- KSIS900001.300 - Mounting Bracket

COMPLIANCE

Europe - CE

OPERATION OF ANTI-MASKING

The mask is detected by two analysis, running simultaneously: the first is an alteration of normal balance between alarm signals from Infrared (PIR) and microwave derived from the analysis continuous signal, using a reduced sensitivity of the microwave to minimize the effect of continuously moving objects that could affect only the microwave. You can disable this type of analysis acting on a jumper.

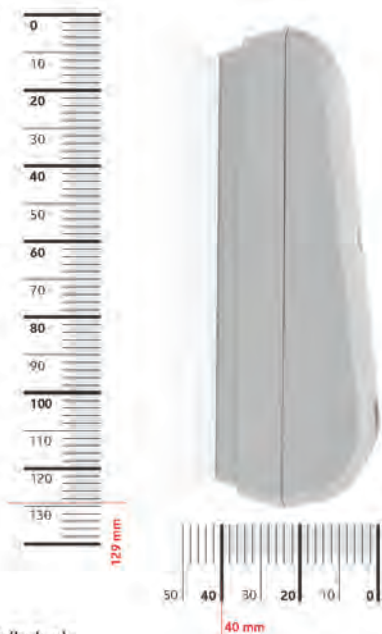
The second analysis is based on an area of supervision (within one meters from the sensor): a person entering in the safe zone will activate the detection process of masking. This second function cannot be disabled.



ianitor wall-mounting Bracket

velum DT AM Dual-Technology Motion Detector

product code **KSI5302010.300** - velum DT AM



129x38x40 mm (h x l x p)

*velum dal latino significa velo.
velum derives from Latin and means veil.*

Ksenia velum is a motion sensor dual technology with Anti masking which can be installed both outside and inside.

It may simply mean that the sensor projects a dual Technology barrier shielding (infrared and microwave) which completely fills the area to be protected by covering it evenly, precisely as with a veil.

*perché velum
why velum*

- **because** the different detector models, all have the same design and the same size, while having different characteristics, whether wired or wireless technology. This avoids the typical "drop style" resulting from seeing often objects of different shape on the walls, maybe even the same room or local.
- **because** they guarantee maximum reliability when installed inside and outside in all weather conditions.
- **because** inside of the small size contain the latest technology in terms of environmental detection by integrating a dual technology.

TECHNICAL DATA

- Power Supply: standard 12V, max 13,4V
- IR sensor: Dual element
- IR range: 12m (room temperature 25 ° C)
- Warm-up time: 60 sec
- Operating Frequency MW: 24.125GHz
- Range MW: 12m
- Antimasking Analysis: active, infrared LED
- Thornproof: mems platform. (Accelerometer)
- Sabotage: front microswitch
- Operating Temperature Range: from -20°C to +55° C
- Immunity RFI/EMI: 20V/m, 10-1000MHz; 10 V/m, 1-2GHz
- White light immunity: 6500lux
- Range MW: adjustable by trimmer
- Analysis control tear: enabling by dip-switch
- Analysis antimasking: enabling by dip-switch
- LED indicators: RGB in five colors, can be disabled via dip-switch
- Detection area: only a tent (angle 7.5 °)
- Horizontal coverage: IR 90 °, 80 ° MW
- Vertical coverage: IR 7.5 °, 32 ° MW
- Amplitude tent: a 2m 25cm, 130cm at 10m
- Detection range: from 0.30m to 12m
- Installation height: 2.30m from 2.10m max on the wall
- Mounting: with bracket angle (reversible) on the wall
- Material housing and clamps: ABS
- Dimension: 38 x 129 x 40mm (l x h x p)
- With wall bracket: 45 x 129 x 40mm
- With angle bracket: 45 x 129 x 45mm
- Weight: 90g
- Protection: IP54
- Color: gray
- Embedded EOL resistance: triple balancing 10Kohm parallel (To enable via microswitch) integrated on the pcb

HOW TO ORDER

KSI5302010.303 - velum DT AM

ACCESSORIES

- KSI5900003.003 - Rain protection



Rain protection

velum motion detector can be also installed using its protective rain protection hood.

FUNCTIONS

velum detectors are motion sensors made with advanced professional components and materials among the best in the world. From every point of view, these sensors guarantee the highest degree of reliability in the detection of the movement, without incurring false alarms.

The motion detector velum includes two technologies for motion detection: microwave doppler effect and infrared. Together, these two signals are interpreted by proprietary algorithms that reject false alarms and detect unwanted intrusions.

Section microwave sensors velum includes a transceiver Doppler microstrip modern and compact. The Doppler signal is digitally processed to obtain the highest degree of reliability in intrusion detection and exclusion problems. The signals of repetitive motion are filtered so as frequencies resulting from fluorescent light are eliminated in digitally. The section to the IR acts with a lens combined with an infrared detector of high quality.

Finally the signal is evaluated by a processor, for obtaining the exclusion of false alarms while maintaining an excellent degree of intrusion detection.

The masking of the lens of the infrared analysis is carried out using infrared LED active, able to detect any obstacle placed in the vicinity of the lens.

velum detectors is the ideal solution can protect situations such as canopies, porches, below balcony, windows etc. The sensor velum is synonymous reliability and high safety, not only from the qualitative point of view, but also against sabotage attempts, given that integrates a station with accelerometer flexible and functional even in installations with the hub and a micro switch for front opening

Range

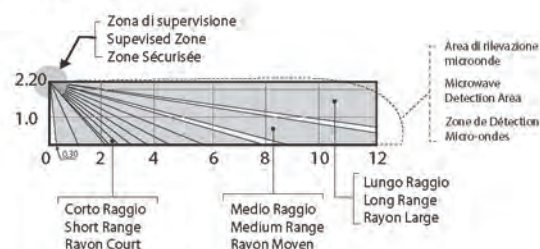
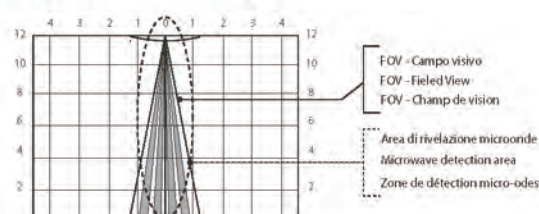


Diagram of visual coverage



WIRED MAGNETIC CONTACTS



Surface mounting magnetic contact

- KSISCLS-TW.2CN - Brown
- KSISCLS-TW.2CW - White

Integrated parallel double balanced, anti-masking, 2-pole cable connection, 200cm cable length MAGNET EXCLUDED.

Flush mount magnetic contact

- KSISCLR-TW.0TN - Brown
- KSISCLR-TW.0TW - White

Integrated parallel double balanced, anti-masking, connection with 2 screw terminals, ideal for: wooden frames (with KSISCLR-MG00N/W), aluminum frames/PVC (with KSISCLR-AL.00N/W), armored doors (with KSISCLR-BL.00N/W), MAGNET EXCLUDED.

Magnet and adapter (aluminum / PVC)

- KSISCLR-AL.00N - Brown
- KSISCLR-AL.00W - White

Magnet and adapter on surface for aluminum frames or PVC.

Magnet and adapter

- KSISCLR-BL.00N - Brown
- KSISCLR-BL.00W - White

Built-in Magnet and adapter for armored doors.

Magnet

- KSISCLR-MG.00N - Brown
- KSISCLR-MG.00W - White

Built-in Magnet and adapter for wooden frames.

MAIN FUNCTIONS

Based on the **Magnasphere®**, inertial sensors Ksenia, V Series uses an innovative magnetic principle to detect vibrations.

The inertial sensors Ksenia V Series represents a point of complete rupture with the technologies of the past. They are based on a new, sensational and owner operating principle hybrid inertial / magnetic that will overcome all the inherent limitations of traditional passive technologies, whether ball, blades or rockers.

In the inertial Magnetic contacts Ksenia the metallic ball that reacts to vibrations is kept in equilibrium by the force of gravity, but by permanent magnetic fields. The vibrations imposed on the sensor, if strong enough to disturb the magnetic balance, causing the opening of the electrical circuit.

Thanks to a particularly accurate engineering project, the calibration of the magnetic fields has allowed first to provide a sensor whose response to vibrations (time intervals of opening and cyclicity of the same) mirrors with much fidelity that of the most common patterns of conventional sensors. In this way the inertial Ksenia reach a high degree of compatibility with the control panels: lares, even within the wireless sensor integrati through the device **duo Bus**.

Furthermore achieving balance by magnetic fields, rather than by the mere force of gravity, it allows to realize the sensor with a ball mass and extremely compact dimensions.

TECHNICAL DATA

- Designed with patented **Magnasphere®** technology
- Protective and insulating treatment of the PCB (conformal coating) with resin.
- Double parallel balancing with 2 resistors
- 10 KΩ integrate
- Absence of constraints for positioning
- Individual quality control



ANTI-MASKING MAGNETIC CONTACTS

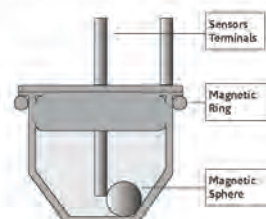
product code **KSISCLH111.000**



TECHNICAL DATA

- Designed with patented Magnasphere® technology
- Compatible with popular analysis boards impulse counter
- Protective and insulating treatment of the PCB (conformal coating) with resin.
- Compatible with the fast doors of the most commons control panels
- Efficiency, prolonged in time
- Absence of constraints for positioning
- individual quality control

INTERNAL MECHANISM



MAIN FUNCTIONS

The Magnetic contacts traditional, technology-based Reed, are easily vulnerable.

It is in fact simple masking the absence of the magnet abutment on a Reed contact, which means opening of the door, with the application of a magnet from the outside of the gate also to the alarm is armed, and having then access undisturbed.

In high security applications, the solution was up to now the use of sensors to "triple balancing magnetic", albeit with a considerable burden in terms of costs and installation time dimensions.

Ksenia Security offers a solution to the problem: stop the reed contacts. The Magnasphere® Technology contact Ksenia, even in the smallest flush model, offers a high-performance Security comparable with those obtained from contacts in triple balancing magnetic.

HOW TO ORDER

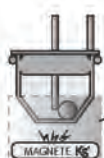
KSISCLH111.000	aluminium only	2 pz
White KSISCLS-TW.2CW	Brown KSISCLS-TW.2CN	5 pz
White KSISCLR-TW.0TW	Brown KSISCLR-TW.0TN	10 pz
White KSISCLR-MG.00W	Brown KSISCLR-MG.00N	10 pz
White KSISCLR-AL.00W	Brown KSISCLR-AL.00N	10 pz
White KSISCLR-BL.00W	Brown KSISCLR-BL.00N	5 pz

CONTATTO APERTO



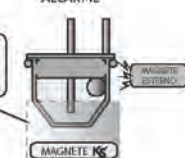
VARCO APERTO

CONTATTO CHIUSO



VARCO CHIUSO

CONTATTO APERTO ALLARME



VARCO CHIUSO

CERTIFICATION

THE MAGNETIC CONTACTS REPRESENTED ARE THE ONLY CERTIFICATES ANTI MASKING EN 50131 - Grade 3 - class IV

duo BUS Transceiver / Repeater

product code **KSI2600000.310** - for KS-BUS only



TECHNICAL DATA

- Power: 13,8 Vdc
- Consumption: max. 50mA
- Operative Frequency: 868 MHz Band
- Range in open air: up to 400 m
- Max. WLS Device Nr.: 64
- I/O Terminals: 2
- Wireless Zones: max. 128
- Operative Temperature: +5 to +40 °C
- Dimensions: 140 x 100 x 28 mm (L x H x P)

PARTS INCLUDED

- 1 Transceiver / Repeater duo (PCBA)
- 1 Slim Case
- 1 Quick Installation Guide

HOW TO ORDER

- KSI2600000.310 - KS-BUS Version

ACCESSORI

- KSI7207008.000 - Lithium-Ion Battery 7,4 Vdc-850 mAh
- KSI7302000.010 - Plastic box "slim" version

CERTIFICATIONS

Europe - RoHS, CE
EN50131 grade 2 - Class II
T031:2014



duo dal latino significa doppio.
duo derives from Latin means double.

Each duo BUS version enables to expand any Control Panel of the lares series by giving the opportunity to link up to 64 wireless Devices for a total of max. 128 wireless zones and up to 20 remote controls. On the same BUS it is possible to link up to 2 transceivers for both expanding the wireless signal coverage and for acting contemporary as a back-up of the other.

duo can also work as a Signal Repeater simply powering it up.

perchè duo
why duo

- **because** it can work both in Transceiver mode (wired on KS-BUS or in Repeater mode (simply powering it up it extends the signal range).
- **because** it integrates the MULTI-RECEIVER technology, i.e. up to 2 devices and 2 repeaters can be included in the same Architecture.
- **because** in case of MULTI-RECEIVER system, the connected wireless devices are able to automatically choose the best radio path.
- **because** the REPEATER needs to be connected only to the +12Vdc, not to the BUS and it can integrate a Lithium-Ion battery which in case of black-out is able to guarantee at least 12 continuous hours coverage.
- **because** it can manages up to 64 wireless devices and max 128 wireless zones.



duo board in the slim plastic case

universal duo Transceiver / Repeater

product code **KSIZ600001.310** - universal duo



TECHNICAL DATA

- Power: 13,8 Vdc
- Consumption: max 50mA
- Operative Frequency: 868 MHz Band
- Range in open air: up to 400 m
- Max. WLS Device Nr.: 32 Devices
- Wireless Zones: max 96
- Operative Temperature: -10° to +55 °C
- Dimensions: 140 x 100 x 28 mm (L x H x P)

PARTS INCLUDED

- 1 Transceiver / Repeater universal duo
- 1 Slim Case with screw
- 1 Quick Installation Guide

HOW TO ORDER

- **KSIZ600001.310** - universal duo

ACCESSORIES

- **KSIZ7302000.010** - Plastic box "slim" version

COMPLIANCE

Europe - RoHS, CE



MAIN FUNCTIONS

The bi-directional universal receiver duo univ allows the use of wireless peripherals of Ksenia Security with any control panel or similar devices: this installation is possible thanks to 8 programmable outputs present on the device. The number of outputs can be increased up to 18 using auxi or auxi-relay modules.

MAIN FEATURES

- Up to 18 programmable outputs: 8 outputs on the duo univ, up to 2 expansion modules auxi/auxi relay, each with 5 programmable outputs.
- Up to 32 wireless sensors configurable (poli, nanus poli, unum wls, nebula)
- Configurable with up to 8 opera remote controls which activate specific outputs or change the system status (armed, disarmed, partially armed)
- Up to 15 groups (partitions) to be associated with one or more of the wireless sensors enrolled to the system, each group is linked to a specific output
- System programming and monitor via LCD ergo Keypad
- Multi-language programming menu
 - Configuration data stored in non-volatile memory
 - 3 Status LEDs



duo board in the slim plastic case

unum wls Indoor Motion Detector

product code **KSI5201000.300** - PIR
KSI5201100.300 - PIR + Pet Immune



perché unum wls why unum wls

- **because** it is a digital sensor with double optic.
- **because** it includes the most advanced Wireless Technology, 868 MHz, completely bi-directional, professional and reliable.
- **because** it integrates the DPMS Technology (Dynamic Power Management System) which allows less interferences and extends the battery life.
- **because** in case of MULTI-RECEIVER system it is able to automatically choose the best radio path.
- **because** when the alarm is disarmed it is possible to set the sensor in sleep mode, keeping the complete supervision.
- **because** it has a unique aesthetic - minimalist and discreet different from the rest.
- **because** unum detectors apply the new ELT Technology (Embedded Lens Technology), which takes advantage from decades of experience in designing professional lens for motion detection purposes, thus enabling to achieve the objective to literally make the lens disappearing from the detector profile, thanks to very sophisticated techniques which also use the same special material of the lens (HDPE), to basically allow it to be fully embedded, completely integrated in the front cover itself;
- **because** they do not need, unlike other products in the market, to have on their front side all those colored lights (LEDs) which very often the installers need to disable because too annoying for the end-customers;

TECHNICAL DATA

- **IR Sensor:** Dual Element Digi Pyro
- **Power:** 1 CR123A Lithium battery included for a maximum battery life up to 4 years
- **RF immunity:** 20 V/m, 10-1000 MHz; 10 V/m, 1-2 GHz
- **White Light Immunity:** 6500 lux
- **Sensitivity:** adjustable at 2 or 3 impulses
- **Coverage:** adjustable from software or Keypad at 6 or 12 m. range
- **Operational Frequency:** 868 MHz
- **Open Air Range:** up to 400 m
- **Operative Temperature Range:** from +5 °C to +40 °C
- **Materials:** Base: ABS; Front: HDPE
- **Dimensions:** 113 x 60 x 45 mm (h x w x d)

PARTS INCLUDED

- 1 unum wls motion detector
- 1 CR-123A battery
- 1 Installation manual

HOW TO ORDER

- **KSI5201000.300** - PIR version
- **KSI5201100.300** - PIR plus Pet Immune version

ACCESSORIES

- **KSI5900000.300** - adjustable bracket for wall mounting

CERTIFICATIONS

Europe - RoHS, CE
 EN50131 Grade 2 - Class II
 T031:2014



MAIN FUNCTIONS

unum wireless, is a digital Dual-Optic Motion Detector available in 2 versions, with and without Pet Immunity

The Motion sensor is a **dual PIR Digi Pyro™** with high Quality **EvenEye™** Lens.

Thanks to the Bi-Directional wls Technology, **the range selection (6 or 12 m.) and the number of impulses programmable directly from the basis software with no need of selecting jumpers or annoying dip-switches; furthermore it's possible to modify the configuration with no need to re-open it.**

Additionally it is possible **to deactivate the PIR sensor when the system is disarmed (default setting) so as to reduce drastically the current consumption with consequent increase of the battery life.**

Instead, with particular reference to Home-Automation applications, it is possible to program the PIR sensor to be always powered.

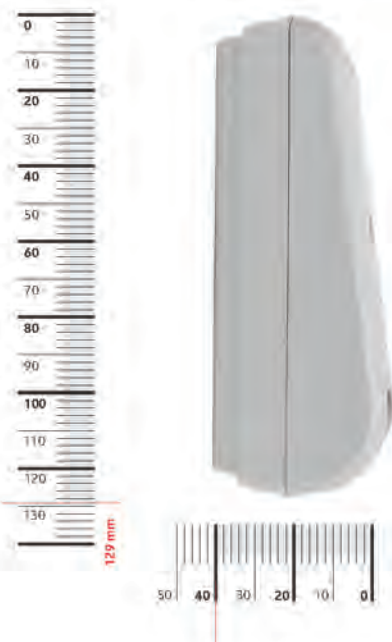
velum wls DT AM

Outdoor Curtain Dual-Technology Motion Detector

product code **KSI5402010.303** - velum wls DT AM

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WIRELESS DEVICES / velum wls DT AM



TECHNICAL DATA

- **Power Supply:** 1 Lithium battery LS14250 3.6 V (1/2 AA-size) included for a maximum duration of at least 2 years
- **IR sensor:** dual element
- **IR range:** 12 m (room temperature 25 °C)
- **Warm-up time:** 60 sec
- **Operating Frequency:** 24.125 GHz
- **Range MW:** from 0.30m to 12m
- **ANTIMASKING Analysis:** active; infrared LED
- **Thornproof:** mems platform (Accelerometer)
- **Sabotage:** front microswitch
- **Operating Temperature Range:** from -20°C to +55°C
- **Immunity RFI/EMI:** 20 V/m, 10-1000 MHz; 10 V/m, 1-2 GHz
- **White light immunity:** 6500 lux
- **Operating wireless frequency:** 868 MHz band
- **Sight range:** up to 300m
- **Detection area:** only a tent (angle 7.5 °)
- **Horizontal coverage:** IR 90 °, 80 ° MW
- **Vertical coverage:** IR 7.5 °, 32 ° MW
- **Amplitude tent:** a 2 m 25 cm, 130 cm at 10 m
- **Installation height:** 2.10 m from 2.30 max on the wall
- **weigh:** 90 g
- **protection:** IP54
- **Color:** gray

HOW TO ORDER

- **KSI5402010.303** - velum wls

ACCESSORIES

- **KSI5900003.003** - Rain protection*
- **KSI7203627.000** - Lithium Battery 3.6V (1/2 AA-size) Included

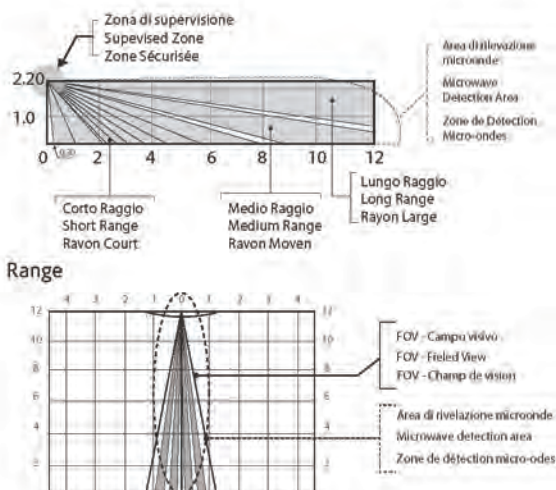
*velum motion detector can be also installed using its protective rain protection hood

Motion detectors velum are under 5 year warranty (3+2)

FUNCTIONS

Outdoor curtain velum wls detector is the ideal solution to protect situations such as canopies, porches, below balcony, windows etc. The sensor velum wls is synonymous with reliability and high safety, not only from the qualitative point of view, but also against sabotage attempts, given that integrates a station with accelerometer for wall tamper, flexible and functional even in installations with the bracket and a micro switch for front opening. The wireless technology used is of the latest generation, fully bi-directional (each device acts as transceiver allowing every transmission to receive a confirmation message, obtaining optimization of consumption and improved reliability compared to traditional mono-directional systems), at 868 MHz frequency band (with FSK modulation). A sophisticated proprietary control of power transmission (DPMS - Dynamic Power Management System) allows to reduce interference, maximize battery life and optimize the transmission power depending on the distance between the devices and the type of installation. Maximum protection of the entire system is ensured via encryption of each packet communication, using proprietary algorithm. All wireless devices have a unique serial number that is automatically acquired by the system during installation; both on the programming software and on the keyboard of the ergo series are indicated in real time the signal level of each device and the communication path if there are more BUS receivers or any repeaters.

Diagram of visual coverage



velum-C DT AM

Indoor / Outdoor Curtain Dual-Technology Motion Detector

product code **KSI5402011.303** - velum-C wls



TECHNICAL DATA

- Power supply: 1 battery pack 3.6 V - 2,7Ah included for a maximum duration of at least 2 years
- Range: 6 m (room temperature 25°C)
- IR sensor: Dual element
- Operating frequency uW: 24.125 GHz
- ANTIMASKING Analysis: active infrared LED
- Thornproof: Accelerometer
- Sabotage: front microswitch
- Operating temperature range: from -20°C to +55° C
- RFI/EMI immunity: 20 V/m, 10-1000 MHz; 10 V/m, 1-2 Ghz
- White light immunity: 6500 lux
- Operating wireless frequency: 868 MHz band
- Sight range: up to 300 m
- Detection area: only a tent (angle from 7,5°)
- Vertical coverage: IR 90°, MW 80°
- Installation height: from 2 to 6 m on the wall
- Material housing and clamps: ABS
- Dimension: 129 x 38 x 40 mm
- Weigh: 90 g
- Protection: IP 54
- Color: grey

HOW TO ORDER

- KSI5402011.303 - velum-C wls

ACCESSORIES

- KSI5900003.003 - rain protection*
- KSI7203627.000 - Lithium battery pack 3,6V-2700mA/h

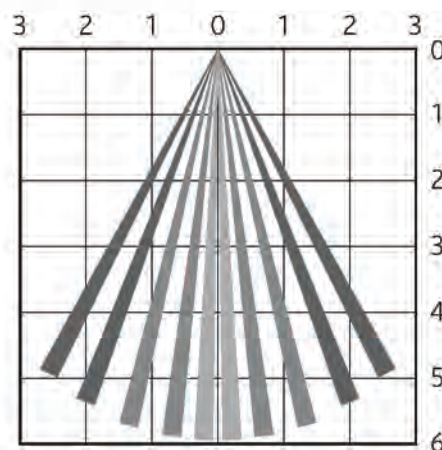
** velum motion detector can be also installed using its protective rain protection hood.*

FUNCTIONS

velum-C wls detector is a curtain movement detector that has the same main characteristics as velum wls detector; it can however be installed on the ceiling with a 6m vertical flow.

In this way, positioned at the center of the frame, it ensures its complete coverage, creating an insurmountable barrier to any intruder.

Diagram of visual coverage



poli Magnetic Contact

product code **KSI5001000.301** - White poli
KSI5001000.303 - Grey poli
KSI5001000.304 - Brown poli



TECHNICAL DATA

- **Power:** 1 Lithium Battery Type CR123A included for a max. duration time up to 4 years
- **Operative Frequency:** 868 MHz Band
- **Inputs:** Nr.2 programmable balanced
- **Range in open air:** up to 400 m
- **Operative Temperature Range:** +5 °C to +40 °C
- **Contact Dimensions:** 30 x 90 x 30 mm (HxWxD)
- **Magnet Dimensions:** 15 x 34 x 14 mm (HxWxD)

PARTS INCLUDED

- 1 poli magnetic contact
- 1 CR-123A battery
- 1 Quick Installation Guide

HOW TO ORDER

- KSI5001000.301 - White poli
- KSI5001000.303 - Grey poli
- KSI5001000.304 - Brown poli

ACCESSORIES

- KSI7203015.000 - Lithium battery CR123A (200 pcs per pack)

CERTIFICATIONS

Europe - RoHS, CE
 EN50131 Grade 2 - Class II
 T014A:2013



poli dal latino significa polo.
poli derives from Latin means pole.

poli is a wireless magnetic contact with 2 auxiliary inputs, integral part of the 868 MHz Bi-Directional System of Ksenia.

poli is identified, as all Ksenia Security Products, by an unique and exclusive design which develops itself around the Battery volume as the major constraint. It integrates inside **2 programmable inputs** which can be used to connect external wired magnetic contacts rather than wired curtain detectors, glass brake detectors and/or wired roller blind detectors, rendering it, as a matter of fact, as a **small wireless expansion module (up to 3 zones)**.

Thanks to its Bi-Directional Communication, the input configuration (**type, number of impulses, balance**) are programmable directly from the basis software.

As all the other KSENIA wls devices, the poli magnetic contact implements DPMS (Dynamic Power Management System), the possibility to program the supervision time from minimum of 1 minute to a maximum of 240 minutes (default set-up: 5 minutes), the battery status control (with signal warning transmission when its substitution is recommended), and integrates 2 tamper (on the opening and on its removal).

poli is available in 3 colors: White, Brown and Grey to make it suitable to the different installation requirements.

perché poli
why poli

- **because** it includes the most advanced Wireless Technology, 868MHz, completely bi-directional, professional and reliable.
- **because** it integrates the DPMS Technology (Dynamic Power Management System) which allows less interferences and extends the battery life.
- **because** in case of MULTI-RECEIVER system it is able to automatically choose the best radio path.
- **because** it can manage two independent wired inputs / zones (roller blind and glass break).
- **because** it integrates a solid state Reed sensor and not a mechanically more fragile glass component.
- **because** it has a unique aesthetic - minimalist and discreet different from the rest, being the result of many accurate studies and shapes developed around the battery volume.
- **because** in addition to the white and brown it is available also in gray for installations on stainless steel and aluminium frames

nanus poli Micro Magnetic Contact

product code **KSI5002000.301** - White nanus poli
KSI5002000.303 - Grey nanus poli
KSI5002000.304 - Brown nanus poli



TECHNICAL DATA

- **Power supply:** 1 provided lithium battery CR2032 included for a max life expectancy up to 3 years
- **Operating frequency:** 868 MHz
- **Range in open air:** up to 300 m
- **Operating temperature range:** +5° to +40 °C
- **Contact Dimensions:**
30 x 53 x 10 mm (HxWxD)
- **Magnet Dimensions:**
12 x 36 x 09 mm (HxWxD)

PARTS INCLUDED

- 1 nanus poli magnetic contact
- 1 CR-2032 Battery
- 1 Installation Manual

HOW TO ORDER

- KSI5002000.301 - White nanus poli
- KSI5002000.303 - Grey nanus poli
- KSI5002000.304 - Brown nanus poli

ACCESSORIES

- KSI7203002.00 - Button battery CR2032 (200 pcs per pack)

COMPLIANCE

Europe - RoHS, CE

*poli dal latino significa polo.
poli derives from Latin means pole.*

nanus poli is a wireless micro magnetic contact, integral part of the 868 MHz Bi-Directional System of Ksenia.

nanus poli is identified, as all Ksenia Security Products, by an unique and exclusive design which develops itself around the Battery volume as the major constraint.

As all the other KSENIA wls devices, the nanus poli magnetic contact implements DPMS (Dynamic Power Management System), the possibility to program the supervision time from minimum of 1 minute to a maximum of 240 minutes (default set-up: 5 minutes), the battery status control (with signal warning transmission when its substitution is recommended), and integrates a tamper on the opening.

nanus poli has a unique serial number which is being automatically acquired by the system during the installation phase: both the basis programming software and the ergo keypads indicate in real time the signal level of each device and communication path in the case that more BUS Transceivers or Repeaters are present in the same architecture.

nanus poli is available in 3 colors: White, Brown and Grey to make it suitable to the different installation requirements.

*perché nanus poli
why nanus poli*

- **because** is almost the smaller magnetic contact in the market
- **because** it includes the most advanced Wireless Technology, 868 MHz, completely bi-directional, professional and reliable.
- **because** it integrates the DPMS Technology (Dynamic Power Management System) which allows less interferences and extends the battery life.
- **because** in case of MULTI-RECEIVER system it is able to automatically choose the best radio path.
- **because** it integrates a solid state Reed sensor and not a mechanically more fragile glass component.
- **because** it has a unique aesthetic - minimalist and discreet different from the rest, being the result of many accurate studies and shapes developed around the battery volume.
- **because** in addition to the white and brown it is available also in gray for installations on stainless steel and aluminium frames.

nebula optical smoke detectors

product code KSF5100001.001 - glass design, wired
 KSF5100001.003 - mesh design, wired
 KSF5300001.001 - glass design, stand-alone
 KSF5300001.003 - design mesh, stand-alone



TECHNICAL DATA

- Operating temperature range:
-10 to +60 °C, 95% Humidity
- Weight: 320 g (glass design)
160 g (mesh design)
- Dimensions: 112x37 mm (glass design)
95x21 mm (mesh design)

Stand-alone versions

- Power Supply: 9V battery
for a life expectancy up to 10 years

Wired versions

- Operative range: 9 - 33 Vdc
- Consumption: < 20 µA - 25mA max

PARTS INCLUDED

- 1 nebula Optical smoke detector
- 1 Separate base
- 1 9V Battery (only wireless version)
- 1 Installation manual

HOW TO ORDER

- KSF5100001.001 - nebula glass design, wired version
- KSF5100001.003 - nebula mesh design, wired version
- KSF5300001.001 - nebula glass design, stand-alone version
- KSF5300001.003 - nebula mesh version, stand-alone version

CERTIFICATIONS

EN14604:2005 - stand-alone version
 EN54-7 - wired version



Detail of separate bases

nebula dal latino significa nuvola, nebbia.
nebula derives from Latin means cloud, fog.

nebula detectors are optical devices that allows a very quick smoke and fire detection respecting DIN EN 54-7 normative (wired version) or EN14604:2005 (stand-alone version).

They can be directly wall-mounted (in vertical) or at ceiling. Both models are fitted with a separate base available in silver and white. Thanks to the handy bayonet the installation is completed by screwing the detector on the base. There are two versions: the first with silver mesh, the second with circular glass design. Both versions of the device have a red LED for alarm event.

All models are also available in wired version, extremely practice in cabling thanks to the separate base.

Radio interface for stand-alone smoke detectors

product code KSI5003000.300



TECHNICAL DATA

- Operative range in open air: up to 350 m
- Battery life expectancy: up to 2 years

HOW TO ORDER

KSI5003000.300

The radio interface allows to enroll the nebula stand-alone detectors to lares systems

auxi wls bi-directional wireless module

2 outputs + 2 inputs 868MHz

product code **KSIZ300002.300** - auxi wls



TECHNICAL DATA auxi wls

- Power supply: 110 -230 VAC 50-60Hz
- Operative range: 868 MHz
- Operative range in open air: up to 150 m
- Inputs: Nr. 2
- Outputs: Nr. 2 (5A 250Vac - 5A 30Vdc)
- Operative temperature range: -20 to + 55 °C
- Dimensions: 42 x 35 x 20 mm
- Protection class: IP20

PARTS INCLUDED

- 1 PCBA Module
- 1 Plastic case
- 1 Installation manual

HOW TO ORDER

- KSIZ300002.300 - auxi wls module

COMPLIANCE

Europe - CE , RoHS

MAIN FUNCTIONS

auxi wls is a wireless module with 2 inputs and 2 outputs on board. **Powered directly from the mains**, auxi wls is ideal for the remote control of lights, home automations (such as roller blinds and curtains) and, generally, any load unreachable by cables.

auxi wls can be used in conjunction with lares Control Panels or as a stand-alone device. In the second case, the outputs can be controlled locally (using the inputs on board) or remotely (using the opera remote control). Up to 32 different remote controls can be enrolled for each auxi wls.

His compact size allows to fit it in small spaces such as DIN503 wall boxes (1 slot)

Additionally to the Mono-stable or Bi-stable modes, outputs can be configured as follows:

- 2 independent outputs: each output can be managed as single
- Change over switch: once the first output closes, the second one opens (useful to replace outputs already installed)
- Interlocked: useful to manage automatic roller blinds (there is a delay before the closing of the output)



Ksenia
security innovation

imago wls Outdoor Siren

product code **KSI6401000.3XX** - imago wls, different colors



The **imago** wireless outdoor Siren is an acoustic and optical professional alarm that combines an unique, extremely compact and slim design (its maximum thickness is 6 cm.) with an advanced technology to obtain the best possible performance with the highest energy saving: high sound pressure, 1W LED blinker and auxiliary high-efficiency high efficiency warning LED.

COMPLIANCE

Europe - RoHS, CE

TECHNICAL DATA

- Modern Design with original and convenient rotating opening
- Solid PC housing (minimum thickness 3 mm.) with anti-UV pigment
- Front available in different colors
- Transparent base available in different colors: orange, red and blue
- Strong metallic zinc-plated under-cover (anti-smashing)
- High acoustic power piezoelectric Buzzer (>100dBA @ 1m)
- Protective and insulating treatment of the PCB (conformal coating)
- Power Supply: 9V(min.) - 13.8V (max - power supply not included)
- Rechargeable Backup battery: 6Vdc - 1,2Ah (not included)
- Un-rechargeable Main battery: 7,5Vdc - 8Ah non-reloadable (not included)
- Operative temperature range: -10° +55°C 95% humidity

- Protection class: IP43
- Dimensions: 195 x 330 x 60 mm
- Weight (without battery): Kg 1.200
- Wireless bi-directional communication; 868MHz frequency
- RF Range: 300 m. in open air
- Supervision for wireless diagnostic (programmable)
- Temperature sensor (excludible)
- Temperature thresholds managing (programmable)
- Management of the maximum duration of the alarm (programmable)
- Alarm output configurable as Bistable or Monostable
- Power LED output configurable as Bistable or Monostable
- Auxiliary LED output configurable as Bistable or Monostable
- Acoustic signals of RF level OK

PARTS INCLUDED

- 1 Siren complete with PCBA and metal undercover
- Sets 6 mm Dia. Bolts & Nuts
- Installation manual

OPTIONALS

- KSI7207580.000 - Alkaline battery 7,5V/8Ah non-reloadable

HOW TO ORDER

Ksenia finished product:

- **KSI6401000.3XX*** - imago wls

(*) The code suffix 3XX indicates the different color option.
e.g. 318 Is the code for a white cover with red bottom imago.

Ksenia covers only:

- **KSI6901000.3YY**** - cover only (both versions)

(**) The code suffix 3YY indicates the different color option.
e.g. 340 Is the code for a beige cover.

Ksenia bottom only:

- **KSI6901000.30Z***** - bottom only (both versions)

(***) The code suffix 30Z indicates the different color option.
e.g. 307 Is the code for a orange bottom.

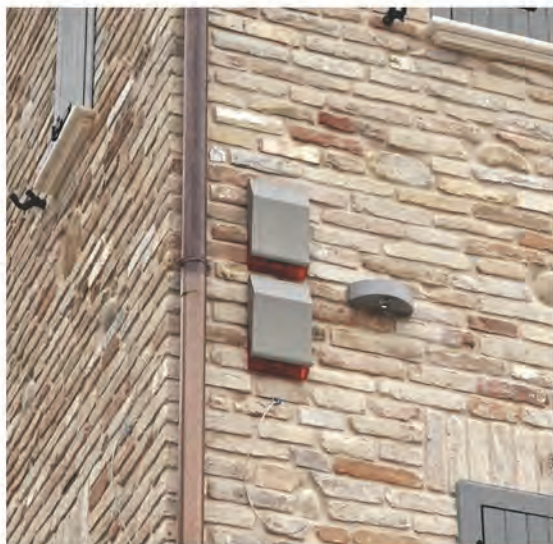
Available colors codes

Covers



Bottom





The Siren is handled by two microcontrollers:

- Main process microcontroller
- Communication microcontroller

imago wireless can use 2 different power supply systems:

- A proprietary 7,5V 8Ah battery pack, not rechargeable (that will must be replaced once discharged) separately sold as optional;
- External power supply (12Vdc) with 6V 1,2Ah backup acid lead battery

The status of the batteries charge and, if present, the level of external power supply are constantly monitored. Every power supply or battery failure or disconnection is reported to the main system.

imago wireless is equipped with a temperature sensor and communicate to the panel:

- the temperature value
- the programmed thresholds.

imago wireless can measure the level of RF signal reception. During the maintenance, if the siren is placed in a good wireless reception spot, imago beeps at each variation of the Tamper Switch.

imago wireless also presents protections:

- keep alive periodic signal
- Anti-opening and anti-removal tamper

Every communication from the imago wls to the main system will be repeated until acknowledged. Despite of its extremely small size, imago hides a sturdy metal lid-Chamber; also, the plastic material involved (high quality polycarbonate with UV protection) and the sophisticated design, guarantee durability in all weather conditions.

The imago wireless siren has two protections: against opening the device and against forced removal from the wall on which was fixed (two switches in series). The siren constantly checks the status of these two switches and their eventual opening will be communicated to the lares. Then, subject to programming, lares may requires the activation of acoustic and luminous signals to report the attempted sabotage.

Using imago wireless powered with main battery (7,5V - 8Ah), the lifetime expectancy is up to 3 years in the following conditions:

- 4 daily cycles of turning on the auxiliary LEDs;
- Supervision interval programmed at 5 minutes;
- 1 monthly alarm cycle of 5 minutes each and 4 test alarm cycles;

Notes:

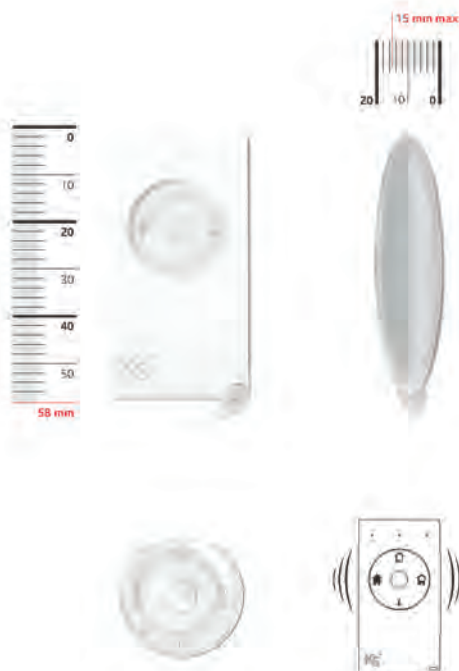
1. At temperatures below -5° C the siren may give a "wrong battery" message
2. Working below -5°C significantly reduces battery life
3. Replace the battery pack using only the model KSI7207580.000
4. A battery can explode if handled incorrectly – do not recharge, open or throw on a fire



Alkaline battery pack

opera Remote Control

product code KSI7700000.00X* - opera control, different colors



TECHNICAL DATA

- **Power:** 1 Lithium Battery Type CR2032A included (up to 6 years max. duration time)
- **Operational Frequency:** 868 MHz Band
- **Operation Range (open-air):** up to 400 m
- **Operative Temperature Range:** from -5°C to +40° C
- **Overall Dimensions:** 30 x 58 x 15 mm (hwxwd)
- **Vibration:** adjustable duration and switch-off option for energy saving purposes

PARTS INCLUDED

- 1 opera remote control
- 1 CR-2032 battery
- 1 Lanyard
- 1 User Guide IT / EN / FR

HOW TO ORDER

- KSI7700000.001 - White opera control
- KSI7700000.002 - Black opera control
- KSI7700000.003 - Grey opera control
- KSI7700000.008 - Red opera control

ACCESSORIES

- KSI7203002.000 - Button battery CR2032 (200 pcs per pack)

CERTIFICATIONS

Europe - RoHS, CE
EN50131 Grade 2 - Class II
T014A:2013



*opera dal latino significa lavoro, servizio, comodità.
opera derives from Latin means work, service, easiness.*

*perché opera
why opera*

opera: it is a remote control with a revolutionary design, both ergonomic and minimalist.

Thanks to the bi-directional communication, **opera** is not limited to the possibility to **activate up to 7 different scenarios**, but also to deliver in any moment the **system status** (arm, away and stay) visualized by one of the 3 LEDs positioned on the upper part. The activation of any scenario is confirmed both visually (through the relevant LED) and by means of a **vibra-motor device**.

The **panic function** could be also activated by a prolonged pressing of each of the 4 bottoms (or 7 Functions).

The implementation of a complex encryption algorithm guarantees a superior Security level and contemporary allows the utilization of the same remote control's device even with different installations (e.g. main residence and sea cottage).

opera is available in the 4 Ksenia institutional colors, i.e. White, Red, Grey and Black.

- **because** it includes the most advanced Wireless Technology, 868 MHz, completely bi-directional, professional and reliable.
- **because** it integrates the DPMS Technology (Dynamic Power Management System) which allows less interferences and extends the battery life.
- **because** in case of MULTI-RECEIVER system it is able to automatically choose the best radio path.
- **because** the communication is completely encrypted by proprietary algorithm.
- **because** in real time it allows to visualize the system status (after the confirm reception) by visual signalation (three red LEDs).
- **because** it is the only remote control with four bivalent function keys (extended pressure for other scenarios activation).
- **because** it has a revolutionary design which remember the keypads circular scroll.
- **because** it has extremely small size
- **because** it is the only one equipped of vibramotor for received command tactile confirmation
- **because** it is available in four colors: White, Grey, Black and Red
- **because** it is provided with the alternative numeric Keypad, easily interchangeable and usefull to use opera in domotic purposes



KSENIA PROFESSIONAL WIRELESS TECHNOLOGY

The Ksenia Wireless devices implement a new generation technology full of innovative solutions.

First of all, they use a 868 MHz frequency band in FSK technology. This allows a better reception and transmission than the old 433 MHz transceiver systems. Furthermore the higher frequency allows to dispose of a shorter wavelength and then of smaller devices dimensions.

The use of a completely bi-directional system it is also mandatory, not only about the transceiver, but for any kind of device, including the remote control.

This responds to the need to monitor each device in order to notice their possibly disappears and/or sabotages and it also contributes at the system strength in terms of disturbs immunity: the missed answer to the diagnostic must generate an alarm that must be properly managed.

Despite what is commonly stated, if it is used by an intelligent system, the bi-directionality contributes to the power optimization, maximizing the system reactivity and its strength. For example, every time the sensor detects an alarm event it immediately starts transmitting without waiting for system request.

A sophisticated transmission power management system (DPMS - Dynamic Power Management System) furthermore allows to reduce the interferences, maximize the battery life and optimize the power consumption related to the devices distances.

By adopting the "MULTI-RECEIVERS" system, simply powering it up, it is possible to use the transceiver as a signal repeater, allowing to expand its coverage.

Furthermore it obtains a back-up solution providing a rechargeable Lithium-Ion battery, also in case of prolonged absence of power => professional Security in all conditions.

In case of more transceivers installed in the same architecture, the system dynamically and automatically determines what is the best way in the communications between itself and the sensors.

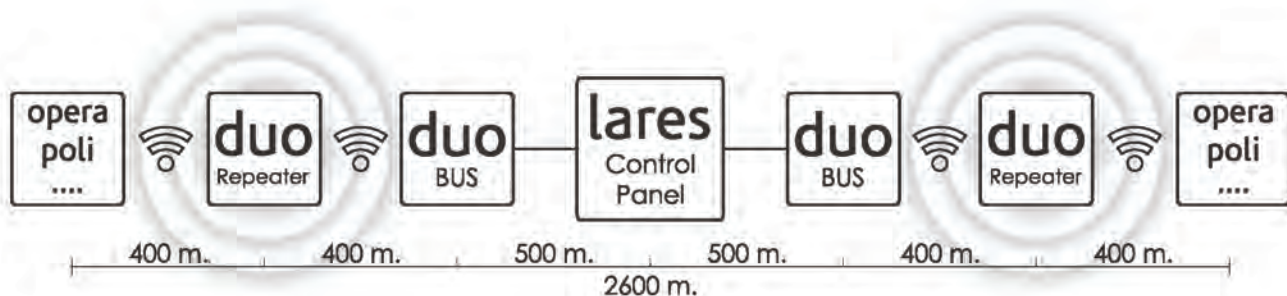
That means eliminate any configuration or manual test for determine what is the best way that has to be used by the devices to communicate with the transceivers.

The key advantage is, for every single wireless host, the possibility to hook up to the transceiver wired to the BUS or linked to the Repeater in full transparent mode, both from an host and from a system stand point of view.

This enables the wireless range extension and contemporary realizes the concept of redundancy.

Maximum protection of the system is guaranteed by encryption, using proprietary algorithm of each communication packet.

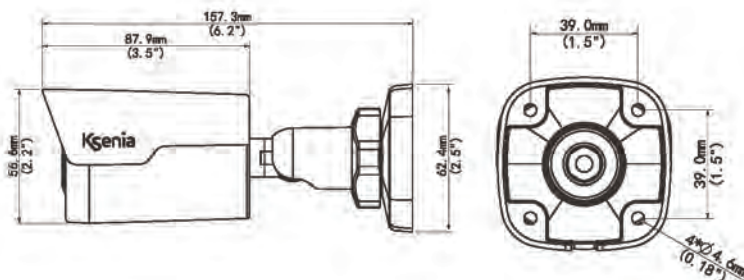
All the Ksenia Security wireless devices have developed and integrated all the aforementioned technologies and have a univocal serial number which is automatically acquired in installation phase by the system; each device's signal level and his communication way (in case of Multi-Receivers installation) will be indicated both on basis programming software and ergo Keypad display.



Example of the maximum configuration with lares hybrid.
Operating ranges in open air.

IR Mini Bullet Camera IP

product code **KSV0010140.300** - Mini Bullet IP camera



FUNCTIONS DESCRIPTION

Mini Bullet is an IP video-surveillance camera for outdoor / indoor use with 4 MP CMOS sensor in HD with IP67 protection grade and day / night functionality, smart IR, IR distance up to 30m, optical glass lens with higher light transmission, anti-reflective IR lens which increases the transmittance of the infrared 3D DNR (Digital Noise Reduction) H.265, H.264, MJPEG Video format 9:16 IP67 in compliance with ONVIF protocol.

PROGRAMMING

KSV cameras are fully programmable via web interface

IP camera Onvif Protocol

The Ksenia cameras, implements the Onvif protocol, an important industry standardization of IP video, a result of a collaboration between the major industry manufacturers. With this protocol a camera KSV can be integrated into any recording software IP or NVR..

TECHNICAL DATA

- Sensor: 1/3", 4.0 Mpx, progressive scan, CMOS
- Lens: 3.6mm @ F1.8
- Angle of view (H): 87°
- Shutter: Auto/Manual, 1/6 ~ 1/8000 s
- Min. Illumination Colour: 0.02 Lux (F1.8, AGC ON)
0 Lux with IR on
- Day/Night: IR-cut filter with auto switch (ICR)
- IR Range: Up to 30m (98 ft) IR range
- S/N: >55dB
- WDR: 120dB
- Noise Reduction: 2D/3D

Video

- Max. Resolution: 2592 × 1520
- Video Compression: H.265/H.264/MJPEG
- Frame Rate: 4MP (2592×1520): Max. 20 fps;
4MP (2560×1440): Max. 25 fps;
3MP (2048×1520): Max. 30 fps;
1080P (1920×1080): Max. 30 fps
- Video Streaming: Triple
- ROI: Supported
- OSD: Up to 8 OSDs
- Motion Detection: Up to 2 areas
- Privacy Mask: Up to 4 areas

Network

- Protocols: L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, SMTP, SNMP, SIP, QoS
- Compatible, Integration: ONVIF, API

Interface:

- Network 1 RJ45 10M/100M Base-TX Ethernet

General

- Power: 12 V DC, or PoE (IEEE802.3 af)
- Power consumption: Max 6.4 W
- Dimensions: (L × W × H) 157.3 × 62.4 × 63 mm
- Weight: 0.45 kg (0.99 lb)
- Working Environment:
-35° C ~ +60° C (-31° F ~ 140° F)
- Humidity 95% RH (non-condensing)
- Ingress Protection IP67

INCLUDING PARTS

- 4 MP IR Bullet Camera IP
- CD (Installation Manual + software)
- Connector Cover for external Ethernet plug

HOW TO ORDER

KSV0010140.300 - IP camera Mini Bullet

IR Mini Dome Camera IP

product code **KSV0013120.300** - Mini Dome IP camera



FUNCTIONS DESCRIPTION

Mini Dome is an IP video-surveillance camera for indoor / outdoor use with progressive 1 / 2.8 "CMOS sensor, 2MP with 25Fps, mechanical ICR, 3.6mm fixed optics f2.0, brightness 0.01Lux f2.0 (0 with Led ON), IR LED range up to 20mt, 1 LAN 10 / 100Mbps, privacy mask 4 areas, 3D, WDR (120db) basic video analysis, face detection, 12Vdc power supply or PoE <5W and IP66 environmental protection degree, Dimensions 110 x 61mm (Ø4.3" x 2.4")

PROGRAMMING

KSV cameras are fully programmable via web interface

IP camera Onvif Protocol

The Ksenia cameras, implements the Onvif protocol, an important industry standardization of IP video, a result of a collaboration between the major industry manufacturers. With this protocol a camera KSV can be integrated into any recording software IP or NVR.

TECHNICAL DATA

- Sensor: 1/2.8", 2.0 Mpx, progressive scan, CMOS
- Lens: 2.8mm
- Angle of view (H): 115°
- Shutter: Auto/Manual, 1/6 – 1/8000 s
- Min. Illumination Colour: 0.02 Lux (F2.0, AGC ON)
0 Lux with IR on
- Day/Night: IR-cut filter with auto switch (ICR)
- IR Range: Up to 30m (98 ft) IR range
- S/N: >52dB

Video

- Max. Resolution: 1920 x 1080
- Video Compression: H.265/MJPEG
- Frame Rate:
 - 1080P (1920 x 1080): Max. 30 fps; 720P (1280 x 720): Max. 30 fps;
 - D1 (720 x 576): Max. 25 fps
- Video Streaming: Triple
- ROI: Supported
- OSD: Up to 8 OSDs
- Privacy Mask: Up to 4 areas

Storage

- Edge Storage: Micro SD, Up to 128 GB

Network

- Protocols: L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, SMTP, SNMP, SIP, QoS
- Compatible, Integration: ONVIF, API

Interface:

- Audio I/O: audio cable
Input: impedance 35 kΩ; amplitude 2 V [p-p]
Output: impedance 600 Ω; amplitude 2 V [p-p]
- Built-in Mic: supported
- Network: 10M/100M Base-TX Ethernet

General

- Power: 12 V DC, or PoE (IEEE 802.3 af)
- Power consumption: 3-5W
- Dimensions: 110 x 61 mm (Ø4.3" x 2.4")
- Weight: 0.25 kg (0.55 lb)
- Working Environment:
 - 35° C ~ +60° C (-31° F ~ 140° F)
- Humidity: 95% RH (non-condensing)
- Ingress Protection: IP66

INCLUDING PARTS

- 2 MP IR Mini Dome Camera IP
- CD (Installation Manual + software)
- Connector Cover for external Ethernet plug

HOW TO ORDER

KSV0013120.300 - Mini Dome IP camera

Ksenia NVR

Network Video Recorder

product code **KSV0021082.300 - NVR**



FUNCTIONS DESCRIPTION

Ksenia NVR is a device that can capture and record images and video streams from IP cameras. It can manage up to a maximum of 8 IP cameras, has two video outputs, one HDMI and one VGA. It also has 4 inputs and 2 alarm outputs.

On the device it is necessary to put a hard disk (not supplied) with SATA interface with a maximum capacity of 6TB.

IP camera Onvif Protocol

The Ksenia cameras, implements the Onvif protocol, an important industry standardization of IP video, a result of a collaboration between the major industry manufacturers. With this protocol a camera KSV can be integrated into any recording software IP or NVR.

TECHNICAL DATA

VIDEO AND AUDIO

IP Video Input: 8-ch
Two-way audio Input: 1-ch, RCA

NETWORK

Incoming bandwidth: 60Mbps
Outgoing bandwidth: 64Mbps
Remote connection: 128

VIDEO/AUDIO OUTPUT

HDMI Output: 4K (3840 × 2160)/30Hz,
1920 × 1080p/60Hz, 1920 × 1080p/50Hz,
1600 × 1200/60Hz, 1280 × 1024/60Hz,
1280 × 720/60Hz, 1024 × 768/60Hz

VGA Output: 1920 × 1080p/60Hz,
1920 × 1080p/50Hz, 1600 × 1200/60Hz,
1280 × 1024/60Hz, 1280 × 720/60Hz,
1024 × 768/60Hz

Audio Output: 1-ch, RCA

Recording Resolution: 12MP/8MP/6MP/5MP/4MP/3MP/1080p/960p/720p/D1/2CIF/CIF

Synchronous Playback: 8-ch

DECODING

- Compression: H.265/H.264
- Live view/Playback: 12MP/8MP/6MP/5MP/4MP/3MP/1080p/960p/720p/D1/2CIF/CIF
- Capability: 1 × 12MP @ 20, 1 × 4K @ 30,
3 × 4MP @ 20, 4 × 1080p @ 25,
8 × 720p @ 25, 16 × D1

HARD DISK

- SATA: 1 SATA interface
- Capacity: up to 6TB for each disk

EXTERNAL INTERFACE

- Network Interface: 1 RJ-45 10M/100M self-adaptive Ethernet Interface
- Network Function: HTTP, TCP/IP, IPV4, UPNP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPOE, DDNS, FTP, IP Server, P2P
- USB Interface: Rear panel: 2 × USB2.0, Front panel: 1 × USB2.0
- Alarm In: 4-ch
- Alarm Out: 1-ch

GENERAL

- Power Supply: 12 Vdc
- Consumption (without HDD): 8 W
- Working Temperature: -10° C ~ +55° C
(+14° F ~ +131° F)
- Working Humidity: 10% ~ 90%
- Dimensions: 44 × 260 × 240mm
(1.7" × 10.2" × 9.4")
- Weight (without HDD): 1.12 Kg (2.47 lb)

HOW TO ORDER

- KSV0021082.300 - NVR



I SISTEMI DI VIDEOSORVEGLIANZA

Sono stati progettati con le seguenti caratteristiche per ridurre l'impatto ambientale:

- Assenza di PVC
- Laminati senza Alogeno e circuiti stampati senza piombo
- Basso assorbimento
- Imballo realizzato per la maggior parte con fibre riciclate e materiali provenienti da fonti rinnovabili

THE VIDEO-SURVEILLANCE SYSTEMS

Are been designed and manufactured for the environment as follows:

- *Absence of PVC*
- *Halogen free laminates and lead-free PCBA*
- *Low consumption*
- *Packaging realized mainly with recycled fibers and materials*

Main References



Ksenia
security innovation

The new dimension of Security

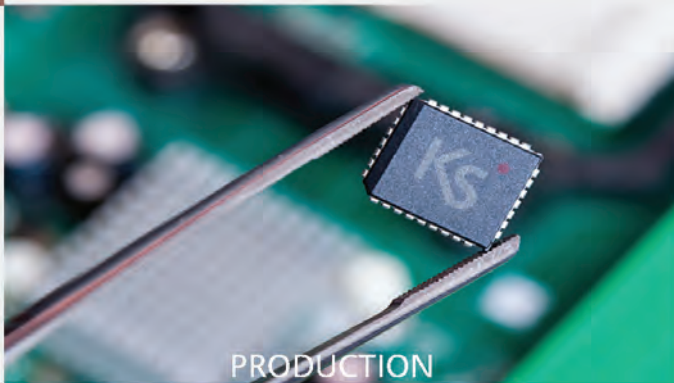


RESEARCH AND DEVELOPMENT

The Open Platform named 'lares', in its various IoT Solutions, Hybrid and Wireless, from 16 to 644 I/O, represents the top expression in terms of Power, Integration and Connectivity: last generation Components, the highest degree of certified Quality and Reliability, easy Scalability and programmable from remote, even from mobile.

On a single, extremely compact Control Panel are managed all Home Automation and Security Systems performances, IP/Ethernet connectivity supported by a 3G Back-up and vice-versa.

Simply unique in the Security's (Intrusion, Access Control and Video Surveillance) as well as Home & Building Automation's arena is the prestigious value-proposition of Ksenia Security, the Italian Brand recognized and appreciated worldwide for its level of Innovation and Design, Solutions fully developed and manufactured to be environmentally sustainable. This success is continuously achieved thanks to the long experience matured in the business, the dynamic convergence of ideas and heterogeneous skills, to the commitment and passion professed as well as the will to realize something unique, commensurated with the always growing needs and expectations of the Professional Installers as well as the end-users, leading them through a logic of "total integration".



PRODUCTION



Thanks to the partnership Agreement with Loquendo (a Brand of Nuance Communication) only Ksenia Security Installers and End-Users have the privilege of using the most advanced Voice Technologies through a TTS (text-to-speech) converter, choosing among male and female voices as well as 38 different Languages, for amazing personalized voice-messages.

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GIORGIO ARMANI



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FOOD & RETAIL



FERRERO

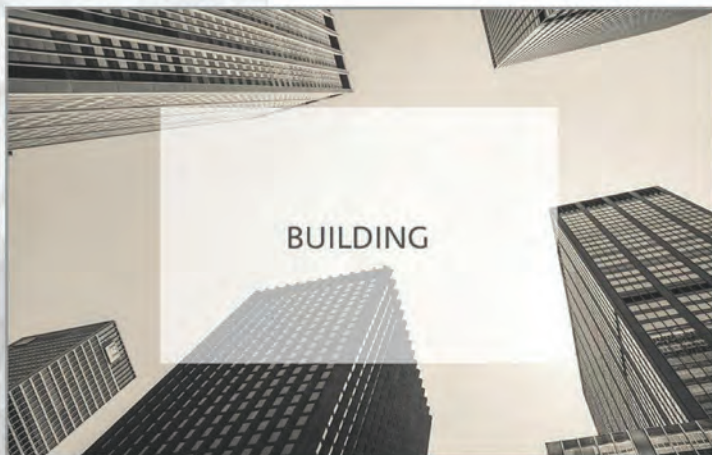


PUBLIC INSTITUTIONS



MINISTERO PER I BENI E
LE ATTIVITÀ CULTURALI

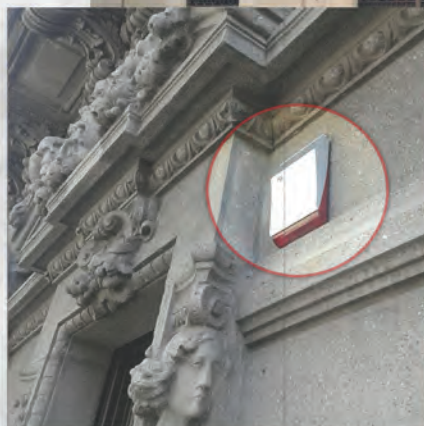
DIREZIONE REGIONALE PER I BENI
CULTURALI E PAESAGGISTICI DELLA PUGLIA



BUILDING

PASSA BORTOLO

QUALITÀ PER L'EDILIZIA



BUILDING



BANCA D'ITALIA



MEDIOBANCA



COMPASS
GRUPPO MEDIOBANCA

CREDIT INSTITUTIONS

Ksenia lares 4.0

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