

## Description

The core of Ksenia's entire offering is the lares 4.0 control panel: a true technological revolution that allows you to create a fully integrated system — security, home automation, access control, and video verification — all from a single platform.

lares 4.0 is a single control panel available in various sizes and versions. Specifically, you can choose between three different hardware platforms — each designed to meet specific installation, performance, and integration needs — and a total of six models.

- **Advanced hardware:**  
lares 4.0 - 40 wls, lares 4.0 - 140 wls and lares 4.0 - 644 wls models designed for more complex installations, with high requirements in terms of expandability and wireless capabilities.
- **Basic hardware:**  
lares 4.0 - 16, lares 4.0 - 40 models perfect for small and medium installations.
- **Dedicated hardware (classified as neither basic nor advanced):**  
lares 4.0 wls 96 - a hybrid solution offering maximum flexibility in installation.

**Advanced hardware:**  
lares 4.0 - 40 wls, lares 4.0 - 140 wls,  
lares 4.0 - 644 wls



**Basic hardware:**  
lares 4.0 - 16, lares 4.0 - 40



**Dedicated hardware:**  
lares 4.0 wls 96



### Key differences between the models

**Advanced hardware:** equipped with dual BUS lines, a built-in wireless transceiver, 8 inputs, and 2 I/O terminals, it offers a comprehensive platform ready for immediate hybrid deployment.

**Basic hardware:** with a single BUS branch, 8 inputs, and 2 onboard hybrid I/O terminals, it can be upgraded to a hybrid system via the duo module, which activates wireless connectivity.

**Dedicated hardware:** lares 4.0 wls 96 features a different hardware architecture, with 4 inputs, 2 onboard outputs, a single BUS line, and an integrated wireless transceiver. It is a specific model designed to manage up to 96 total zones — with a maximum of 40 wired zones — and up to 18 outputs.



App Ksenia Pro installer



App lares 4.0 user



5-year warranty

## Memory and computing performance

lares 4.0 supports up to five concurrent HTTPS connections with fast response times, stores hundreds of screenshots from compatible IP cameras, enables local configuration backup to SD card, and much more.

|                                                   |         |
|---------------------------------------------------|---------|
| Flash memory (code space):                        | 4 Mb    |
| RAM:                                              | 512 Kb  |
| CPU Clock:                                        | 240 MHz |
| Dhrystone MIPS (Million Instructions Per Second): | 480     |
| NOR data memory:                                  | 32 Mb   |
| NAND data memory (eMMC):                          | 4 Gb    |
| SD card slot:                                     | yes     |



lares 4.0 and components



lares 4.0 wls 96 and components

### Why lares 4.0

- **Maximum reliability:** guarantees high and consistent performance over time and advanced architecture for continuous protection.
- **Security, access control and home automation in a single system:** not just an alarm system, but a complete control panel that integrates home automation features for an unrivalled offering.
- **Flexibility for every need:** adapts to any type of installation, for any type of environment.
- **Complete control via app:** the end user can independently manage the entire system via an intuitive app, available free of charge for smartphones and tablets.
- **Scalability:** once installed, the lares 4.0 control panel will be compatible with all future Ksenia Security devices, adapting to all system requirements over time and meeting the need for ever-increasing zones or outputs.
- **Continuous updating:** the control panel is always up to date, ensuring that the system keeps pace with new system requirements and the development of new features.

## Ccontrol panel Technical Specifications

|                                                         | lares 4.0 wls 96     | lares 4.0 - 16                                                 | lares 4.0 - 40 | lares 4.0<br>40 wls | lares 4.0<br>140 wls | lares 4.0<br>644 wls |
|---------------------------------------------------------|----------------------|----------------------------------------------------------------|----------------|---------------------|----------------------|----------------------|
| Power consumption standby:                              | 50 mA                | 40 mA                                                          | 40 mA          | 60 mA               | 60 mA                | 60 mA                |
| max:                                                    | 80 mA                | 70 mA                                                          | 70 mA          | 100 mA              | 100 mA               | 100 mA               |
| Max battery charging current:                           | 120 mV               |                                                                |                |                     |                      |                      |
| Max. current for battery charging:                      | 800 mA               |                                                                |                |                     |                      |                      |
| Deep discharge voltage protection:                      | 10 V                 |                                                                |                |                     |                      |                      |
| Low battery threshold (restore):                        | <11 V (13 V)         |                                                                |                |                     |                      |                      |
| Low voltage threshold:                                  | 12 V                 | Voltage below which the power supply output fault is signalled |                |                     |                      |                      |
|                                                         | 15.4 V               | Voltage above which the power supply output fault is signalled |                |                     |                      |                      |
| Maximum number of inputs:                               | 96                   | 16                                                             | 40             | 40                  | 140                  | 644                  |
| Built-in inputs:                                        | 4                    | 8                                                              | 8              | 8                   | 8                    | 8                    |
| Maximum number of outputs:                              | 18                   | 16                                                             | 40             | 40                  | 140                  | 644                  |
| Ethernet connectivity management:                       | SI                   |                                                                |                |                     |                      |                      |
| Power supply fault detection:                           | SI                   |                                                                |                |                     |                      |                      |
| Combinations of Digital Key:                            | More than 4 billions |                                                                |                |                     |                      |                      |
| Alarm transmission system:                              | SP2, DP1, SP4, DP3   |                                                                |                |                     |                      |                      |
| Time for generation and transmission of alarm messages: | 3 sec.               |                                                                |                |                     |                      |                      |
| Time for detection and presentation failures:           | 10 sec.              |                                                                |                |                     |                      |                      |
| IP protection rating:                                   | IP30                 |                                                                |                |                     |                      |                      |
| Security grade:                                         | 2                    | 3                                                              | 3              | 3                   | 3                    | 3                    |
| Environmental class:                                    | II                   |                                                                |                |                     |                      |                      |
| Board dimensions:                                       | 174 x 85 x 17 mm     |                                                                |                |                     |                      |                      |

## Boxes Technical Specifications

Each control panel requires a box to house the main board and related components.  
Four models are available: one plastic box and three metal boxes, to meet different installation requirements.



**KSI7402117.010**

|                                                                      |                                      |
|----------------------------------------------------------------------|--------------------------------------|
| Switching power supply:                                              | 25 W                                 |
| Buffer battery:                                                      | 7 Ah                                 |
| Max. battery recharge time to 80%:                                   | 10 h                                 |
| Power supply voltage:                                                | 230 V~ -15/+10%<br>50 Hz 0.4 A       |
| Battery charger power supply:                                        | 15V ± 1% 1.7 A                       |
| (Type A norm EN50131-6)                                              |                                      |
| Maximum current available for external devices and optional modules: | 580 mA grade 2<br>230 mA grade 3     |
| Dimensions:                                                          | 255 x 295 x 85 mm                    |
| Box material:                                                        | metal                                |
| Ideal for control panels:                                            | lares 4.0 - 16 and<br>lares 4.0 - 40 |



**KSI7305015.011**

|                                                                      |                                  |
|----------------------------------------------------------------------|----------------------------------|
| Switching power supply:                                              | 50W                              |
| Buffer battery:                                                      | 7 Ah                             |
| Max. battery recharge time to 80%:                                   | 10 h                             |
| Power supply voltage:                                                | 230 V~ -15/+10%<br>50 Hz 0.8 A   |
| Battery charger power supply:                                        | 15V ± 1% 3.4 A                   |
| (Type A norm EN50131-6)                                              |                                  |
| Maximum current available for external devices and optional modules: | 580 mA grade 2<br>230 mA grade 3 |
| Dimensions:                                                          | 215 x 288 x 84.5 mm              |
| Box material:                                                        | plastic                          |
| Ideal for control panels:                                            | all control panel models         |



**KSI7403130.010**

|                                                                      |                                                               |
|----------------------------------------------------------------------|---------------------------------------------------------------|
| Switching power supply:                                              | 50 W                                                          |
| Buffer battery:                                                      | 7Ah                                                           |
| Max. battery recharge time to 80%:                                   | 10 h                                                          |
| Power supply voltage:                                                | 230 V~ -15/+10%<br>50 Hz 0.8 A                                |
| Battery charger power supply:                                        | 15V ± 1% 3.4 A                                                |
| (Type A norm EN50131-6)                                              |                                                               |
| Maximum current available for external devices and optional modules: | 580 mA grade 2<br>230 mA grade 3                              |
| Dimensions:                                                          | 325 x 400 x 90 mm                                             |
| Box material:                                                        | metal                                                         |
| Ideal for control panels:                                            | all control panel models and<br>the opis power supply station |



**KSI7404130.010**

|                                                                      |                                                               |
|----------------------------------------------------------------------|---------------------------------------------------------------|
| Switching power supply:                                              | 50 W                                                          |
| Buffer battery:                                                      | 18 Ah                                                         |
| Max. battery recharge time to 80%:                                   | 24 h                                                          |
| Power supply voltage:                                                | 230 V~ -15/+10%<br>50 Hz 0.8 A                                |
| Battery charger power supply:                                        | 15V ± 1% 3.4 A                                                |
| (Type A norm EN50131-6)                                              |                                                               |
| Maximum current available for external devices and optional modules: | 1500 mA grade 2<br>600 mA grade 3                             |
| Dimensions:                                                          | 325 x 440 x 90 mm                                             |
| Box material:                                                        | metal                                                         |
| Ideal for control panels:                                            | all control panel models and<br>the opis power supply station |

## Expandability

lares 4.0 wls 96    lares 4.0 - 16    lares 4.0 - 40    lares 4.0 - 40 wls    lares 4.0 - 140 wls    lares 4.0 - 644+

### IP Expandability

| IP Cameras                                                      | 4 (8****) | 4 (8****) | 12 (20****) | 12 (20****) | 20 (30****) | 30 (63****) |
|-----------------------------------------------------------------|-----------|-----------|-------------|-------------|-------------|-------------|
| conexa                                                          | 1         | 2         | 4           | 4           | 8           | 14          |
| gemino IoT                                                      | 1         | 1         | 1           | 1           | 1           | 1           |
| porta 4.0 / porta IoT                                           | 1         | 1         | 1           | 1           | 1           | 1           |
| IP Supervisors (Control 4, Crestron and Yubii Home integration) | 1         | 1         | 1           | 1           | 1           | 1           |

### BUS Expandability

|                                                                        |    |     |    |           |             |             |
|------------------------------------------------------------------------|----|-----|----|-----------|-------------|-------------|
| User interfaces (creo-S; ergo-S/M; ergo-X; volo; volo-in)              | 3  | 6   | 24 | 24        | 40          | 64          |
| I/O modules (auxi, auxi-1, auxi-10, auxi-relè, auxi-H, auxi-L, auxi-A) | 6* | 4** | 24 | 24        | 64          | 200         |
| Sirens (radius, imago, vox)                                            | 1  | 6   | 24 | 24        | 40          | 49          |
| Isolators (divide, opis)                                               | 2  | 4   | 12 | 12        | 20          | 32          |
| Transceivers (duo)                                                     | 0  | 2   | 2  | 1 (2****) | 1 (2****)   | 1 (2****)   |
| Home automation sensors (domus)                                        | 1  | 0   | 8  | 8         | 32          | 64          |
| Load controllers (energia)                                             | 1  | 0   | 1  | 3         | 6           | 6           |
| BUS sensors (matrix BUS, unum-X BUS)                                   | 8  | 8   | 40 | 40        | 64          | 64          |
| Access control (intro)                                                 | 4  | 4   | 8  | 8         | 12 (20****) | 16 (30****) |

### Wireless Expandability

|                                                                      |    |    |    |    |    |    |
|----------------------------------------------------------------------|----|----|----|----|----|----|
| Sensors (micro poli, poli, nanus, unum-X wls, nebula, velum, matrix) | 32 | 16 | 40 | 40 | 64 | 64 |
| I/O module (auxi-HT wls, auxi-HL wls)                                | 8  | 8  | 20 | 20 | 64 | 64 |
| Sirens (imago wls)                                                   | 3  | 3  | 3  | 3  | 5  | 5  |
| Repeaters (duo)                                                      | 2  | 2  | 2  | 2  | 2  | 2  |
| Keypads (ergo wls)                                                   | 4  | 2  | 3  | 3  | 4  | 4  |
| Remote controls (opera)                                              | 16 | 16 | 64 | 64 | 64 | 64 |

\* Supports only auxi, auxi-1, auxi-A and auxi-H \*\* Does not support auxi-H \*\*\* Second BUS receivers can be used disabling on board Transceiver

\*\*\*\*Extended number is available under license, contact our sales team for information

## Certifications

### lares 4.0 - 644wls/140wls/40wls/40/16

#### IMQ CERTIFICATION



- CA12.01838
- CA12.01839
- CA12.01840
- CA12.02178
- CA12.02179
- CA12.02180

Grade 2 or 3 - Class II

#### SBSC CERTIFICATION

SSF 1014 - utgåva 6 - Larmklass 3



#### INCERT CERTIFICATIONS

T031-2017 + A1:2018 + A2:2022



D-Q2T-0010



D-Q2T-0038

lares 4.0 - 644wls  
lares 4.0 - 140wls  
lares 4.0 - 40wls



D-Q2T-0011



D-Q2T-0039

lares 4.0 - 40  
lares 4.0 - 16

### lares 4.0 wls 96

#### IMQ CERTIFICATION



- CA12.01838
- CA12.01839
- CA12.01840
- CA12.02178
- CA12.02179
- CA12.02180

Grade 2 - Class II

#### INCERT CERTIFICATIONS

T031-2017 + A1:2018 + A2:2022



D-Q2T-0012



D-Q2T-0040

lares 4.0 - 96wls



## System maximum configuration per control panel model

|                                                 | <i>lares 4.0 wls 96</i> | <i>lares 4.0 - 16</i> | <i>lares 4.0 - 40</i> | <i>lares 4.0 - 40 wls</i> | <i>lares 4.0 - 140 wls</i> | <i>lares 4.0 - 644+</i> |
|-------------------------------------------------|-------------------------|-----------------------|-----------------------|---------------------------|----------------------------|-------------------------|
| <b>Zones management</b>                         |                         |                       |                       |                           |                            |                         |
| Number of Zones (of wich radio)                 | 96 (96)                 | 16 (16)               | 40 (40)               | 40 (40)                   | 140 (140)                  | 644 (192)               |
| Number of wired Zones                           | 40                      | 16                    | 40                    | 40                        | 140                        | 644                     |
| Support for IP Zones                            | ●                       | ●                     | ●                     | ●                         | ●                          | ●                       |
| Custom EOL Balances                             | 1                       | 2                     | 4                     | 4                         | 14                         | 22                      |
| Analog inputs range                             | 1                       | 2                     | 4                     | 4                         | 14                         | 22                      |
| Number of Outputs (of which radio)              | 18 (16)                 | 16 (16)               | 40 (40)               | 40 (40)                   | 140 (128)                  | 644 (128)               |
| Virtual Outputs (timer)                         | ●                       | ●                     | ●                     | ●                         | ●                          | ●                       |
| <b>On board features</b>                        |                         |                       |                       |                           |                            |                         |
| I/O terminal                                    | 2 (only outputs)        | 2                     | 2                     | 2                         | 2                          | 2                       |
| Inputs                                          | 4                       | 8                     | 8                     | 8                         | 8                          | 8                       |
| 868MHz radio interface                          | ●                       | -                     | -                     | ●                         | ●                          | ●                       |
| BUS interface                                   | 1                       | 1                     | 1                     | 2                         | 2                          | 2                       |
| Indoor Siren Connector                          | ●                       | -                     | -                     | -                         | -                          | -                       |
| Partitions                                      | 5                       | 6                     | 12                    | 12                        | 20                         | 30                      |
| Arming Modes                                    | 8                       | 8                     | 32                    | 32                        | 64                         | 128                     |
| Hashtags                                        | 2                       | 2                     | 12                    | 12                        | 20                         | 64                      |
| Rooms (graphic maps)                            | 8                       | 12                    | 24                    | 48                        | 64                         | 128                     |
| Schedulers                                      | 4                       | 8                     | 64                    | 64                        | 64                         | 104                     |
| Event log                                       | 1500                    | 1500                  | 1500                  | 5000                      | 10000                      | 10000                   |
| Users profiles                                  | 2                       | 2                     | 12                    | 12                        | 20                         | 64                      |
| Number of users                                 | 16                      | 16                    | 64                    | 128                       | 512                        | 1024                    |
| Programmable Logics                             | 32                      | 8                     | 16                    | 24                        | 40                         | 108                     |
| Chrono-thermostats                              | 1                       | 0                     | 8                     | 8                         | 24                         | 40                      |
| Counters                                        | 4                       | 1                     | 12                    | 12                        | 20                         | 30                      |
| Meters <i>(energia)</i>                         | 2                       | 0                     | 3                     | 6                         | 12                         | 18                      |
| <b>Scenarios and Notification</b>               |                         |                       |                       |                           |                            |                         |
| Scenarios                                       | 8                       | 8                     | 32                    | 32                        | 128                        | 399                     |
| Configurable event groups for scenarios/actions | 32                      | 32                    | 64                    | 64                        | 256                        | 756                     |
| Contact Lists                                   | 8                       | 8                     | 8                     | 8                         | 16                         | 32                      |
| Contact ID receivers (pairs)                    | 1                       | 1                     | 3                     | 3                         | 3                          | 3                       |
| SIA receivers (pairs)                           | 1                       | 1                     | 3                     | 3                         | 3                          | 3                       |
| Configurable event groups for Notifications     | 16                      | 16                    | 32                    | 32                        | 64                         | 121                     |

## How to order

KSI1400016.300 - lares 4.0 - 16

KSI1400040.300 - lares 4.0 - 40

KSI1410040.300 - lares 4.0 - 40wls

KSI1410140.300 - lares 4.0 - 140wls

KSI1410644.300 - lares 4.0 - 644wls

KSI1410096.300 - lares 4.0 wls 96

## Accessories

KSI4800009.300 - Multi-band antenna to be used only for plastic box  
code KSI7305015.011

KSI4800006.300 - Multi-band antenna with 30 cm cable

KSI4800008.300 - Multi-band antenna with 5 m cable

KSI4800005.300 - Multi-band antenna with 10 m cable

Technical specification, appearance, functional and other product characteristics may change without notice.