

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 40 wls	lares 4.0 140 wls	lares 4.0 644 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% 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 2 230 mA grade 3
Dimensions:	255 x 295 x 85 mm
Box material:	metal
Ideal for control panels:	lares 4.0 - 16 and 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% 50 Hz 0.8 A
Battery charger power supply:	15V ± 1% 3.4 A
Maximum current available for external devices and optional modules:	580 mA grade 2 230 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% 50 Hz 0.8 A
Battery charger power supply:	15V ± 1% 3.4 A
Maximum current available for external devices and optional modules:	580 mA grade 2 230 mA grade 3
Dimensions:	325 x 400 x 90 mm
Box material:	metal
Ideal for control panels:	all control panel models and 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% 50 Hz 0.8 A
Battery charger power supply:	15V ± 1% 3.4 A
Maximum current available for external devices and optional modules:	1500 mA grade 2 600 mA grade 3
Dimensions:	325 x 440 x 90 mm
Box material:	metal
Ideal for control panels:	all control panel models 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)	1	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
SSF 114 utgåva 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>
Zones management						
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)	●	●	●	●	●	●
On board features						
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
Scenarios and Notification						
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.