

Summary of technologies



The **IPAL** system is the 100% IP intercommunication and building management system designed and made by ALCAD. Its factory custom pre-configuration makes it the simplest IP system to install on the market since it does not require additional onsite programming.

IPAL has a very flexible architecture, making it perfect for any kind of installation: large, medium, small, old and new. Allows local and remote management of calls and door lock, and advanced home automation functions configured in your KABI7 and KABI10 indoor units like: alarms triggered by wireless and wired sensors, lighting control, heating/cooling system control, curtains control, scenes control and cameras viewer. It allows integration with third party fire alarm systems too.







Thanks to its integrated Wi-Fi chipset, KABI7 and KABI10 indoor monitors can connect directly to your internet router without additional hardware (internet connection not provided by ALCAD).

IPAL is a connected solution thanks to the free APP "IPAL by ALCAD" for Android and iOS.

-  Authentic Plug & Play
-  No limits
-  All-in-one security solution
-  Free app without additional hardware
-  Bidirectional video intercommunication



The **2-WIRE** video intercom system of ALCAD performs all communication through 2 non-polarized wires, through which the power supply is also distributed. Allows the reuse of existing wiring (taking only 2 wires) greatly facilitating the installation in the changes from audio door entry to video intercom. The 2-WIRE system has the greatest variety in entrance panels and indoor units, allowing to choose the aesthetic that best suits your needs.

-  Easy installation
-  Wide product range
-  Up to 600m and 1,500 houses
-  Reuses existing wiring
-  Flexible topology
-  Image capture

CHARACTERISTICS TABLE

Wiring	2 non-polarized wires, flexible topology
Cable types	<ul style="list-style-type: none">- Parallel 2x1mm² ALCAD Optimized CAB-307- Common Parallel (2x1mm², 2x0,5mm²...)- Twisted pair- UTP CAT5- Replacing of a doorbell (2 wires)- 4+N cable <p>Note: Performance may vary depending on the cable used. Recommended cable: Parallel 2x1mm² ALCAD Optimized CAB-307.</p>
Max. distance outdoor entrance panel to indoor unit	600m
No. of homes	1,500
Terminal connections	2 unpolarized wires. Possibility of connection in derivation or cascade (from housing to housing)
Supply voltage	18Vcc



The **DIGITAL** system is a 2-wires audio door entry system for medium-sized installations, up to 96 homes with a push-button entrance panel and up to 950 with a keypad entrance panel. The communication bus to telephones lacks polarity connection. It has central concierge that allows communication between the houses and the concierge or security guard.

-  Easy installation
-  Up to 200m and 950 houses
-  Guard unit (concierge)

CHARACTERISTICS TABLE




Wiring	2 non-polarized wires, flexible topology. ⁽¹⁾
Cable types	<ul style="list-style-type: none">- Parallel 2x1mm² (for distances up to 100m)- Parallel 2x2,5mm² (for maximum distances from 100m to 200m).
Max. distance outdoor entrance panel to indoor unit	200m
No. of homes	950
Terminal connections	2 non-polarized wires. Possibility of connection in derivation or cascade (from housing to housing). ⁽²⁾
Supply voltage	15Vcc

⁽¹⁾ The bus between the entrance panel and the handset lacks connection polarity. In video door entry system installations the wiring is 4 wires + coaxial

⁽²⁾ In the case of video door entry system terminals, the wiring is 4 wires + coaxial



The **4+N** system has become a classic, the traditional system with years of experience and proven efficiency. But the conventional system of ALCAD goes a step further and allows the realization of buildings with multiple accesses without the need for additional elements, integrating the entrance panel exchangers inside the own phonic groups of the entrance panels.

-  Standard 4+N system
-  Multiple accesses with no additional accessories
-  Useful and intuitive

CHARACTERISTICS TABLE

Wiring	4+N: 4 common wires and N call wires ⁽¹⁾
Cable types	<ul style="list-style-type: none">- Multi-core cable hose (0,22 mm²)- Power supply: Parallel 2x1mm².
Max. distance outdoor entrance panel to indoor unit	100m
No. of homes	200
Terminal connections	5 wires
Supply voltage	12Vca

⁽¹⁾ N refers to the number of calls, or number of housings.