EAGLE

Advance 3 Pronged Power-line Wireless Intercom

USER MANUAL

Model:P159GA

CE RoHS 2011 / 65 / EU

Safety Instructions

Warning: To prevent fire or shock hazard. Do not expose this unit to rain or moisture.

The lighting flash with an arrowhead within a triangle alerts you to uninsulated dangerous voltage within the product's enclosure that could cause an electric shock	**CAUTION** RISK OF ELECTRIC SHOCK DO NOT OPEN TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER (OR BACK) NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED PERSONNEL.	The exclamation point within a triangle alerts you to pressence of important operating, maintenance and servicing instructions in this user's manual.

Important Safety Instructions

1. Read these instructions.
2. Keep these instructions.
3. Read all warnings.
4. Follow all instructions
5. Do not use this device near water.
6. Clean only with a dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other.
9. Do not tamper with the polarized & Grounding plug. Each blade of the plug has a special purpose for seamless communication & safety. A grounding type plug has two blades and a third grounding prong.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the product. When moving the cart/product combination to avoid injury from tip-over (When applicable).
13. Unplug this product during lightning storms or when unused for a long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the product has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the product, the product has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. This product shall not be exposed to dripping or splashing water and that no object filled with liquids such as vases shall be placed on the product.
    Liquid damage is not covered by warranty.
16. Mains plug is used as disconnect device and it should remain readily operable during intended use. In order to disconnect the apparatus from the mains completely, the mains plug should be disconnected from the mains socket outlet completely.
17. Caution marking is located at the bottom of device.
18. The marking information is located at the bottom of device.

Features:

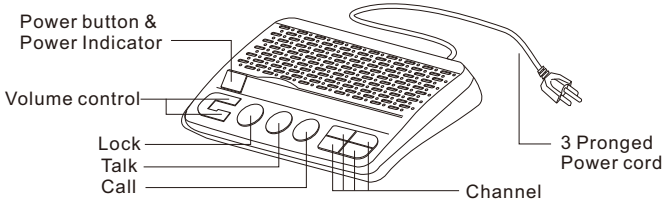
- Our Advance 3 pronged intercoms are specially designed with 3 pronged power cables (live, neutral & ground) to bridge the 3 phases of the electrical wirings for household & small business.
- Provide the wiring in the premise is properly grounded at the third leg of the socket & you have only ONE Power meter, the system will works off the existing electrical wire of the building. There is NO radio wave in operating the system. Therefore you are no longer limited by building materials like "thick Walls". There is no need for socket matching (same line) like the TRADITIONAL 2 pronged system does.
- You can use all the wiring at the house vs. just half of the house with the traditional 2 wire intercoms. Just simple plug and use.
- Illuminate characters function switch enable dark and dim environment usage.
- Illuminate characters function switch enhance vision impaired customers.
- Red LED function buttons, White LED power button & Blue LED channel buttons.
- Direct access channel selector instead of the traditional analogue slide /scroll switch.
- Digital Control function Panel. No intermittence contact problem
- Constant on monitor mode. Eliminate the voice activation problem of missing out the first part of the conversation.
- Multi-channels for designated station setting or for monitoring purpose.
- Security- All conversation travel from outlets to outlets within the same power meter of the building. No bugging and no eavesdropping.

Included In the Box:

Intercoms

User Manual

Getting to know the Intercom



Function Key Descriptions:

All Function Keys are illuminated by RED lights from underneath the button. Illuminations are dim when de-activated and highlighted when activated.

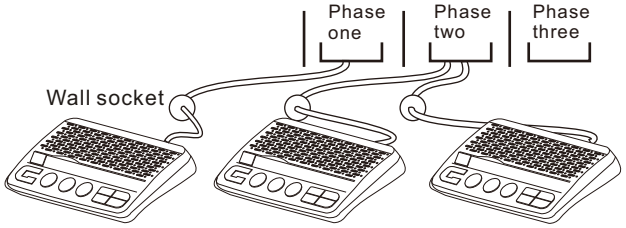
Power Button and Power Indicator:

When the intercom is powered on, the power indicator is illuminated in WHITE.

Channel Keys

All Channel Keys are illuminated by BLUE lights from underneath the button. Illuminations are dim when de-activated and highlighted when activated.

Power Line/Electric Wire



Installation and Setup

Provided that the system requirements are met, setup and installation are just simple plug and play. Simply plug the intercoms into any electrical outlets and enjoy communications throughout the whole premises.

This power line communication device uses the electrical wiring from inside the building. It DOES NOT require radio waves as the communication is no longer limited to building materials, walls, etc. The

System Requirement:

* ALL electrical sockets are 3 pronged with the third prong properly GROUNDED. 110V and 240 volts the SAME .
* Using the system from within ONE SINGLE power meter.
* No Power meter sharing.

What would happen if my wirings are not GROUNDED??? Can I still use this system???

Yes, you can. You do need to set up the Advance 3 pronged as a Traditional 2 pronged system. Without the ground wire, the dual phases of the electric wires can no longer be bridged. You can only use one of the three phases in your electrical wire.

Don't s

Do not operate the system in a **shared power meter** environment. Should there are more than one household sharing the power meter, every households will have the same access to the conversation. There will be neither privacy nor security if the system is operated in a shared power meter environment.

No **surge protector**. It will **degrade** the system's performance significantly.

Do not operate the system in an outdoor environment. This system is **NOT designed for outdoor operation**.

Do not use 2 prongs extension cord. It will lose connections to the other half of the house.

Do not tamper with this 3 pronged plug. Each blade of the plug has a special purpose for seamless communication. If your socket is not fit with the plug, you are not meeting the system requirement (see System Requirement on the sales page). You should

1) Set up the system as a Traditional 2 pronged system (refer to solution #1)
2) Contact a qualify electrician to upgrade the electric wire system in the building.

When Thing Gone Wrong - Troubleshooting & Solutions:

There are only **THREE** causes for communication problems.

1) **Electrical Wirings**. ** Power-line Intercoms rely on electrical wirings to communicate with each other.

   - Some houses were built before ground pronged is required.
   - These old wirings were upgraded; but not throughout the whole building.
   - The ground prong in the socket is not grounded (connected)

   All these can easily be identified (**troubleshoot**) by using this 3-wire tester. (To **resolve** wiring problems please refer to Solution **#1**)

2) **Power Meter:** There is more than one meter in the service area. (Solution **#2**).
3) **Bad Units:** one of the units is bad.

Troubleshooting a Bad Unit

For any communication problem ranging from "right out of the box" or having using the system for a while and changing locations, most of the problem are caused by electrical wiring problem in the house. However occasionally, a bad unit could also be the culprit. To isolate the problem, please follow the following steps.

1. Plug all units into one SINGLE POWER STRIP. Set all units to the same channel, e.g. channel 3. Adjust the volume for all units at mid-level to avoid feedback. Try communicating all units with each other
2. If anyone one of units that is not communicating while on the SINGLE POWER STRIP, that unit is defective. That unit must be replaced.
3. If all units are communicating. The system is NOT DEFECTIVE.
4. You can RESOLVE the above issue by following the Installation Steps in Solutions #1 below. If you have performed the Installation Steps and the system is communicating while on a power strip, but not at the outlets throughout the house, please also check if you would have more than one power meter. If you do, you can resolve the problem with Solution #2.

Remark

1. The test must be performed on a Single Power strip.
2. Never perform the test on any in-wall electrical outlets. Your test will be affected by the three phase wiring & therefore inconclusive.
3. The Power strip is ONLY for TESTING purpose. NOT meant for

Solutions:

Solution 1: Electrical Wiring

Although the electrical wiring failed to meet the system requirements, you can resolve the issue by setting up the system like a Traditional 2 wire Intercoms by following these simple steps.

1) Set all units to the SAME channel. For example, channel 2
2) Plug the 1st unit to one of the outlets.
3) Adjust the unit to mid-volume. Feed a radio to the intercom as a sound source.
4) Leave the 1st unit at its location. Never relocate the 1st unit.
5) Press the "lock" button on the 1st unit. This will activate the unit to constant on.
6) Take the 2nd unit to another location. Make sure it is also on channel 2. Adjust the unit to mid volume. If you can hear the radio from the 1st unit, you have found the right outlet.
7) If you cannot hear the radio from the 1st unit, try plugging the 2nd unit to other outlets from within the same location, e.g. the upper or lower socket.
8) Repeat the same procedures for all the remaining units.

Solution 2: Power Meter

This is common in business offices when one or more units were combined as one business. For the ease of management, the property owner usually employed the "one meter per unit" policy. For the tenants, they will end up with more than one meter.
The solution to this problem is to run an electrical wire from one meter to the other meter, or use the system in a different location

Solution 3: Bad Unit

Troubleshooting - refer to the 4 steps listed in "Troubleshooting a Bad unit".

Interference and Noise

Knowledge Base

The Power-line intercom system communicates by using the power-line in the building. It is **subject** to any interference already existed in the power-line, just like your **AC** powered **AM radio**.
Static, noises and interferences will feed into power-lines by bad appliances with characteristics of hums, buzz, sizzle or roar punctuated by pops & crackles. About 8 to10% of the households are affected by Interference. Interference usually affects 1 or maybe 2 channels on the whole spectrum of the bandwidth. To meet the challenges, multi-channel intercom was created as a solution for users to pick a clean channel for communication. The most common appliances that create interference are microwave ovens, hair dryers, motors and non compatible electrical component combinations, like CFL non-compliance timers.

The only way to eliminate the noise is to locate the source. The system is NOT Defective.

Solution:

Locating the Source of Interference

The only way to eliminate the noise is to locate the source. The system is NOT Defective

Scenarios	Cause	Action
Interference & noise occurred intermittently	A device was being turn on at that moment. One of such candidate would be a microwave oven. * Not all microwaves	1. Find out what device was being used at the time when the interference occurred. 2. Replicate the scenarios. Avoid using that device where the intercom is engaged. 3. use a different Channel The system is NOT defective

Scenarios	Cause	Action
Interference & noise happened at a certain period of time. For example evening & night time or vice versa	A CFL (fluorescent bulb)) using a non-compatible timer was turned on because of a preset schedule Other device being turn-on at a specific schedule	1. Replaced the CFL non-compatible timer with a compatible model. 2. Replace the CFL light with a traditional incandescent bulb 3. Mark the time when the statics starts & check the devices in the building to see what was being scheduled to turn on at that time 4. Use a different channel The system is NOT defective

Other Alternatives: Use the system in a different location

SERVICE WARRANTY

Eagle guarantees the product free from defects in materials and workmanship for a period of twelve months. Should this appliance be operated under conditions other than those recommended, at voltages other than the voltage indicated on the appliance, or any attempts made to service or modify the appliance, then the warranty will be rendered void. The product you buy may sometimes differ slightly from illustrations. This warranty is in addition to, and does not affect, your statutory rights. Our guarantee is administered by our retailers. If your product arrives damaged, you must contact the retailer from whom you bought it. The retailer's contact details will be on the invoice that arrived with the product, or on the e-mail you received when you placed the order. Do not contact Eagle, only your retailer can arrange a replacement. If your product fails within the guarantee period, firstly read the "fault finding" section of this manual, because temperature and weather conditions can affect the performance of certain products. If the product needs to be repaired or replaced, you must contact the retailer from whom you bought it. The retailer's contact details will be on the invoice that arrived with the product, or on the e-mail you received when you placed the order. If you have just received your product and require technical help in using it, please call our Help Desk on (0845) 459 4816 If you have any other technical queries about the product, please call our Help Desk on (0845) 459 4816.

Eagle is a Trademark of Electrovision Ltd. Lancots Lane, Sutton, St. Helens, Merseyside. WA9 3EX
website: www.electrovision.co.uk