AiR2

Hedera
Wireless sounder/flasher for outdoor use
Installation and programming manual

GameOver

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ELECTRONICS

Table of contents

Chapter 1

GENERAL INFORMATION

About this manual   1-1

DCMIINE0A2HEDERAV8	**MANUAL CODE**
1.10	**VERSION**

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Manufacturer's details   1-2

Manufacturer:	INIM Electronics s.r.l.
Production plant:	Centobuchi, via Dei Lavoratori 10

63076 Monteprandone (AP) - Italy

Tel:	+39 0735 705007
Fax:	+39 0735 704912
e-mail:	info@inim.biz
Web:	www.inim.biz

The persons authorized by the manufacturer to repair or replace the parts of this system have authorization to work on INIM Electronics brand devices only.

Air2 System Description   1-3

The advanced Air2 two-way wireless intrusion protection system (868MHz frequency) integrates directly with all models in INIM intrusion control panel range.

Table 1: Technical specifications of Air2 system

Operating frequency	range	868.0 - 868.6MHz
	selectable channels	868.1, 868.3, 868.5MHz
Communication type		Two-way
Modulation		GFSK
Device supervision		from 12 to 250 minutes

In order to comply with the EN 50131-1 standards the alarm system supervision time must be below 120 minutes.   **Note**

For secure deployment and operations of the Air2 wireless intrusion protection system, it is necessary to refer to the Installation and programming guide of the hardwired intrusion control panel in use.

Chapter 2

DESCRIPTION OF THE SOUNDER/FLASHER

The Hedera outdoor wireless sounder/flasher interfaces with the SmartLiving system via an Air2-BS200 transceiver, which allows the control panel to supervise and control it.

The Hedera sounder/flasher can be programmed from the control panel via software which permits the configuration of the various parameters (sound, maximum alarm time, flash rate, signalling activation mode, etc.) and the activation of diverse signals for different events. Through the Air2 system, the control panel is capable of supervising tamper signals, low battery, fault and the battery level.

The Hedera provides self-diagnostic functions for prompt identification of faults and, during installation, allows the operator to choose the type of signal for wireless signal loss.

It has two LEDs for ancillary signalling and a super-bright flasher which utilizes high-efficiency LEDs for low-consumption and extended autonomy.

The Hedera sounderflasher is protected against dislodgement, forced opening and foam injection, the latter protection is located inside and consists of an infrared barrier with a dual detector that provides high immunity to false alarms.

MODELS

- **Air2-Hedera-F**, wireless sounder/flasher with foam-tamper protection for outdoor installation
- **Air2-Hedera-FM**, wireless sounder/flasher with foam-tamper protection in metal-look (chrome) casing.

FUNCTIONS

- Communicates with Air2-BS200 transceiver @ 868MHz
- 2 piezoelectric horns
- Super bright LED-technology flasher
- Houses two 3.6V 13Ah batteries
- Battery with test circuit
- IP34 Rated
- Foam protection
- Dislodgement and open-casing protection
- Metal guard inside
- 3 tone sounder
- Programmable sound-output time
- 2 programmable volume levels
- Programmable flasher sequence
- Programmable flasher time
- Direct control via SmartLiving control panel
- STATUS and PRG LEDs activation via SmartLiving control panel

BATTERIES

The sounder/flasher is powered by a 3.6V 13Ah (ER34615M) battery to be located in its housing inside the casing and connected up during the installation phase.

The battery may not be capable of meeting the declared duration as this depends on how the sounder/flasher is employed and the number and length of activations.

The sounder/flasher is equipped with an extra connector for a second battery (optional) which must have the same features as the primary one. Addition of a second battery will increase the autonomy of the sounder/flasher and also provide greater stability.

Used batteries must be disposed in accordance with the indications in *Appendix B, Information about disposal of batteries and accumulators*.

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Inside the box you will find:

- Hedera sounder/flasher
- 2 securing screws for the metal guard
- 2 securing screws for the casing
- 5 wall plugs for mounting the backplate and tamper bracket
- Drilling pattern
- Installation and Programming manual
- 1 battery to be connected

PACKAGE CONTENTS

Table 2: Description of parts

A	Piezoelectric horns
B	Anti-foam protection
C	Anti-opening and anti-dislodgement protection
D	Primary battery connector
E	Optional battery connector
F	ENROLL button
G	LED flasher
H	STATUS LED - Red
I	PRG LED - Green
J	Back
K	Metal guard inside
L	External-casing
M	Casing hinges
N	Wall-mount screw locations
O	Tamper screw hole
P	Metal guard screw locations
Q	Casing screw locations
R	Battery housing

Hedera - PCB

Hedera - open

Hedera - inside
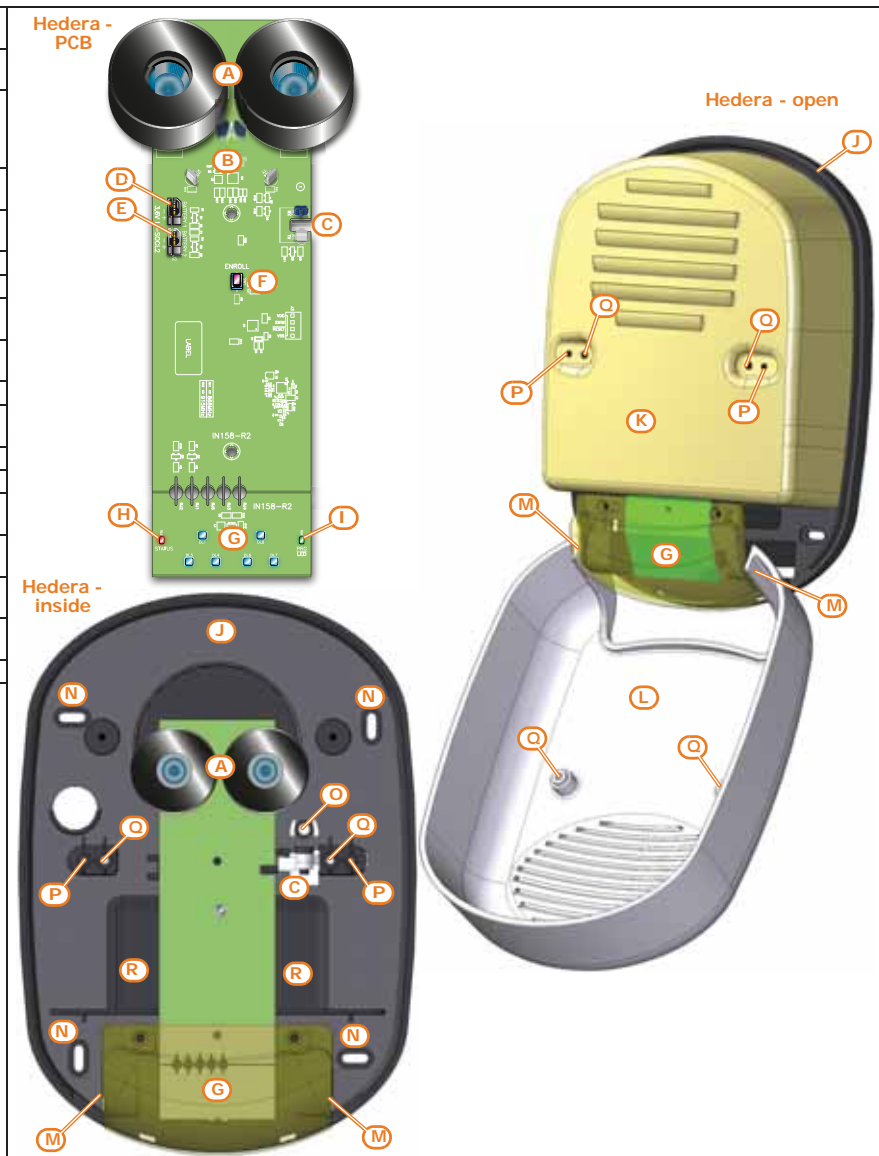
Table 3: Technical specifications

Warning device type		For outdoor use, self-powered, type W
Battery	**type**	ER34615M 3,6V 13Ah
	estimated life	3 years (depending on activations)
"Low battery" fault voltage		Less than 3V
Current draw	**during standby**	60µA
	maximum	600mA
Acoustic output type		tones
Sound pressure at 1m.		103dB(A)
Carrier frequency		1148 Hz
Flash rate per minute (programmable)		36 -56
Maximum alarm-time (programmable)		4 min
Operating environmental conditions	**temperature**	from -25°C to +60°C
	relative humidity	≤93% without condensation
Dimensions (W x H x D)		288 x 207 x 106mm
Weight		1350g
Protection class		IP34
Security rating		2
Environmental class		IV
Number of Hedera sounder/flashers supported by Air2-BS200		Maximum 4

Chapter 3

SOUNDER/FLASHER FUNCTIONS

The Hedera sounder/flasher provides various audible and visual signals.

The signals will activate or deactivate in accordance with the programmed settings of the Hedera sounder/flasher or the connected control panel (refer to *Chapter 3 - Sounderflasher activations*).

The parameters of each signal can be programmed individually, combined with other signals, or deactivated.

Types of signalling   3-1

The super-bright flasher uses new-generation Light Emitting Diode technology which provides maximum visual-signal clarity with extra-low power consumption (*table 2, G*).

FLASHER

The two ancillary LEDs, reveal the device status and guide you through the installation operations (red STATUS LED *table 2, H*, green PRG LED *table 2, I*).

STATUS LED PRG LED

These two LEDs, if suitably programmed, will signal device faults and tamper events. Refer to *paragraph 3-3 Faults and tampers*.

The two horns (*table 2, A*) emit an audible signal which can be programmed for tone (3 tones available), duration, volume and associated event.

AUDIBLE SIGNALLING

Sounderflasher activations   3-2

The Hedera unit can be triggered by signals from the intrusion control-panel and also by events generated by the Hedera unit itself.

The occurrence of control-panel events (activations or resets) can activate a sounder/flasher and generate signalling.

CONTROL-PANEL EVENT ACTIVATIONS

Each event can be associated with one or more sounder/flashers, configured as "Outputs" or "Other outputs" during the event programming phase. Each event can be associated with one of the 8 tone types (patterns) available.

The sounder/flashers can be deactivated from the control panel in the following ways:
- by the "Stop alarms" shortcut
- by accessing maintenance mode
- by pre-set disarm scenarios
- by events associated with the 5 "Cause of deactivation of sounder and flasher" options available

The Hedera unit processes the signals it picks up and then generates the respective events (which can be associated with one or more signals).

SOUNDER/ FLASHER EVENTS

The Ivy unit can generate the following events:
- Low battery
- Open casing
- Device dislodgement
- Foam tamper (or similar)
- Loss of wireless communication with the control panel
- Wireless noise

The event "Open casing" of a Hedera unit does not trigger audible signalling when the connected anti-intrusion control panel is in "Programming" mode.

Note

Signalling will cease when one of the following conditions occurs:
- the control panel deactivates it (see above)
- the alarm condition clears
- the maximum alarm time expires

DEACTIVATIONS

If an alarm condition exceeds the maximum sounder signalling time, the signalling will be interrupted.

Faults and tampers   3-3

The STATUS and PRG LEDs will signal fault or tamper conditions on the sounder/flasher only when set up to do so during the programming phase.

This type of activation prevents the control panel from activating the LEDs.

Note

This signalling consists of a series of flashes.

If several conditions are detected simultaneously, both LEDs are capable of signalling the events consecutively.

Table 4: Fault and tamper signalling

LED	Number of blinks	Event	
STATUS	1	Fault	Low battery
	2		Loss of communication with the control panel
PRG	1	Tamper	Open casing tamper Dislodgement tamper
	2		Foam tamper

Fault signalling will stop automatically when the cause of the fault clears.

Chapter 4

INSTALLATION AND PROGRAMMING

The Ivy unit should be mounted high up on a smooth surface, in such way that it is out of reach but on view and, therefore, may serve as a visible deterrent against break-in.

Wall-mounting   4-1

1. Choose a suitable mounting placement.
2. Open the sounderflasher by pulling the casing downwards (*table 2, M*).
3. Remove the metal guard (*table 2, K*).
4. Using the wall plugs, attach the plastic backplate to the wall (*table 2, N*). The wall plug locations are clearly marked on the drilling-template (included).
5. Insert the tamper-protection screw into its location (*table 2, O*).
6. Connect the primary battery to its connector (*table 2, D*) and place it in its housing (*table 2, R*).
7. The STATUS LED (*table 2, H*) will alternate 5 flashes and 5 second pauses (waiting to be enrolled).
8. Enrolling the sounder/flasher (see *paragraph 4-2 Enrolling Hedera sounder/ flashers*).
9. The STATUS LED will alternate 3 flashes and 3 second pauses (waiting for the dislodgement/ Open tamper device to close).
10. If required, connect the secondary battery (optional) to the connector (*table 2, E*) then fit it into the battery compartment inside the casing (*table 2, R*).
11. Replace the metal guard and the plastic casing. Fastening the casing screws (*table 2, Q*) ensures closure of the dislodgement/open tamper protection mechanism (*table 2, C*).
12. The STATUS LED will flash with a frequency of one flash per second for 15 seconds.
    If the plastic casing is removed during this phase the procedure will go back to step 9.
13. The STATUS LED will stop flashing and the sounder/flasher will be ready to operate.

Enrolling Hedera   4-2
sounder/flashers

The SmartLiving control panel can manage up to 4 Hedera sounder/flashers for each Air2-BS200 installed. However, each control panel model supports a maximum number of sounderflashers.

Via Keypad:
14. Access the Installer menu, select "Sounders" then "ChoosePeripheral".
15. From the list that appears select the sounder/flasher that is to have the wireless attribute.
16. Select the "Wireless" option.
17. From the list select the wireless reader simulated by the Air2-BS200 transceiver the Hedera sounder/flasher is to be associated with.
18. Access the "Enroll device" section, then select "WirelessSiren".
19. Click on the "Enroll" button (*table 2, F*) of the Hedera sounder/flasher.
20. Once the device is enrolled, the PRG LED will blink one time and the keypad that generated the enrollment process will emit a confirmation beep.

Via SmartLeague:

21. Select a sounder/flasher from the those configured in the system tree menu.
22. Access the sounder/flasher "Programming" section then click on the "Wireless" option check box.
23. Click on the "Enroll" button. The enrollment process window will open.
24. From the list select the wireless reader simulated by the Air2-BS200 transceiver the Hedera sounder/flasher is to be associated with.
25. Click on the "Enroll" button.
26. Click on the "Enroll" button (*table 2, R*) of the Hedera sounder/flasher.
27. Once the device has been enrolled, the PRG LED on the sounder/flasher will flash and the window in the software programme will show a confirmation message.

Programming 4-3

The Hedera sounder/flasher can be programmed only via the SmartLeague software. Therefore, the installation project must provide for the addition of wireless sounder/flasher.

If you are working on a new installation or creating a new solution (configuring a real installation in the system software programme), it is necessary to access the section on the right side of the window in the SmartLeague software. Select a sounder/flasher from the "Project" template and drag and drop it to the respective part on the tree structure on the left. Alternatively, double-click on the sounder/flasher icon to add it to the configuration.

If you are using an already programmed solution, check that the system includes a sounderflasher.

At this point it is possible to proceed with the programming of the sounder/flasher.

The "Sounderflashers" option, from the system tree on the left, allows you to program the patterns in the "Programming" section.

PATTERN

Table 5: Patterns - parameters

Option		Value
Description	Description/Name of the sounder/flasher (customizable by the installer).	Not editable
Activate sounder	Enable/Disable sounder activation	
Sounder duration	Sounder activation time	from 1 to 127 seconds or from 1 to 4 minutes
Tone	Sound of the audible signal	3 tones available
Volume	Sound level of the sounder	high, low
Activate flasher	Enable/Disable flasher activation	
Flasher duration	Flasher activation time	from 1 to 127 seconds or from 1 to 4 minutes
Flash type	Flashes per minute	36, 56
Activate STATUS/PRG LED	Enable/Disable activation of the STATUS/PRG LED	

Tone "1" is EN50131-4 certified.

Note

8 modifiable patterns are available:

Table 6: Pattern - default

Description of pattern	Activate sounder	Sounder duration	Tone	Volume	Activate flasher	Flasher duration	Flash type	Activate STATUS LED PRG LED
Burglary	ON	3 minutes	Tone 1	High	ON	3 minutes	56	OFF
Burglary low volume	ON	4 minutes	Tone 1	Low	ON	4 minutes	56	OFF
Fire	ON	3 minutes	Tone 3	High	ON	3 minutes	56	OFF
Tamper	ON	127 seconds	Tone 1	High	ON	127 seconds	36	OFF
Pre-alarm	ON	30 seconds	Tone 1	Low	ON	30 seconds	36	OFF
Automation	ON	3 seconds	Tone 1	Low	OFF			OFF
Signalling	ON	1 second	Tone 3	Low	ON	3 seconds	56	OFF
Chime	ON	3 seconds	Tone 3	Low	ON	3 seconds	56	OFF

A Cut-off pattern can be:

Total cut off	OFF	ininfluent	OFF	ininfluent	OFF

Clicking on the node corresponding to the "Sounder" option provides a list of all the sounder/flashers connected to the control panel. Selection of one of the sounderflashers will allow you to set its parameters.

SOUNDER/ FLASHER PARAMETERS

For a detailed description of the software and an explanation of the programming parameters of the sounder/flashers refer to the SmartLeague software manual.

Once the programming has been completed and the parameter have been "written" on the control panel, it will take at least 30 seconds for the device to become operative.

Note

Appendix A

DECLARATION OF CONFORMITY

Hereby, INIM Electronics s.r.l. declares that this Air2-Hedera is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

Declarations of Performance, Declarations of Conformity and Certificates concerning to INIM Electronics S.r.l. products may be downloaded free of charge from the web address www.inim.biz, getting access to Extended Access and then selecting "Certifications" or requested to the e-mail address info@inim.biz or requested by ordinary mail.

INFORMATION ABOUT DISPOSAL OF BATTERIES AND ACCUMULATORS

(Applicable in Countries with separate collection systems)

This marking on batteries and/or their manual and/or their packaging, indicates that batteries of these products, at the end of their working life, should not be disposed of as unsorted municipal waste, but must be object of a separate collection. Where marked, the chemical symbols Hg, Cd o Pb indicate that the battery contains mercury, cadmium or lead above the reference levels of the directive 2006/66/EC. If batteries are not properly disposed of, these substances, together with other ones contained, can cause harm to human health and to the environment.
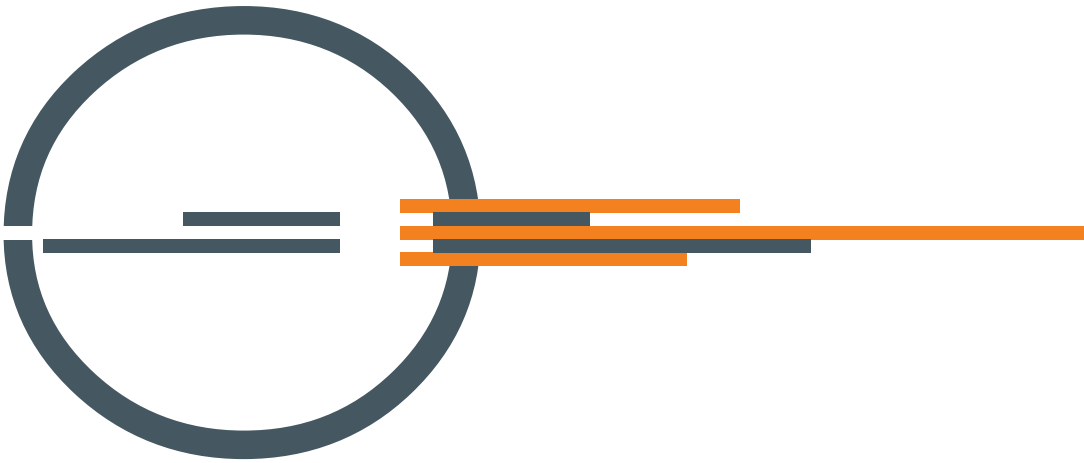
To protect human health and the environment, to facilitate treatment and recycling of materials, separate batteries from other kind of waste and use the collection scheme stated in your area, in accordance to current laws.

Before disposing of the above, it's appropriate to remove them from their holders avoiding to damage them or causing short circuits.

Notes

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ISO 9001 Quality Management
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Centobuchi, via Dei Lavoratori 10
63076 Monteprandone (AP) Italy
Tel. +39 0735 705007 _ Fax +39 0735 704912

info@inim.biz _ www.inim.biz