



## Hedera

Wireless sounder/flasher for outdoor use

Installation and programming manual



GameOver

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# Chapter 1

## GENERAL INFORMATION

### About this manual 1-1

DCMIINE0A2HEDERA V8 **MANUAL CODE**  
1.00 **REVISION**

### Manufacturer's details 1-2

Manufacturer: INIM Electronics s.r.l.  
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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
Security grade		2
Environmental class		II

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.

The notified body N°0051, were involved in the R&TTE Directive conformity assessment procedure for all the devices of the Air2 system.

### Note

# Chapter 2

## SOUNDER/FLASHER DESCRIPTION

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 sounder/flasher 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.

- **Air2-Hedera-F**, wireless sounder/flasher with foam-tamper protection for outdoor installation, provided with primary battery
- **Air2-Hedera-F#**, wireless sounder/flasher with foam-tamper protection for outdoor installation, batteries not included
- **Air2-Hedera-FM**, wireless sounder/flasher with foam-tamper protection in metal-look (chrome) casing for outdoor installation, provided with primary battery
- **Air2-Hedera-FM#**, wireless sounder/flasher with foam-tamper protection in metal-look (chrome) casing for outdoor installation, batteries not included

### MODELS

- 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

### FUNCTIONS

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.

### BATTERIES

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.

Inside the box you will find:

- Hedera sounderflasher
- 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**

I

**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

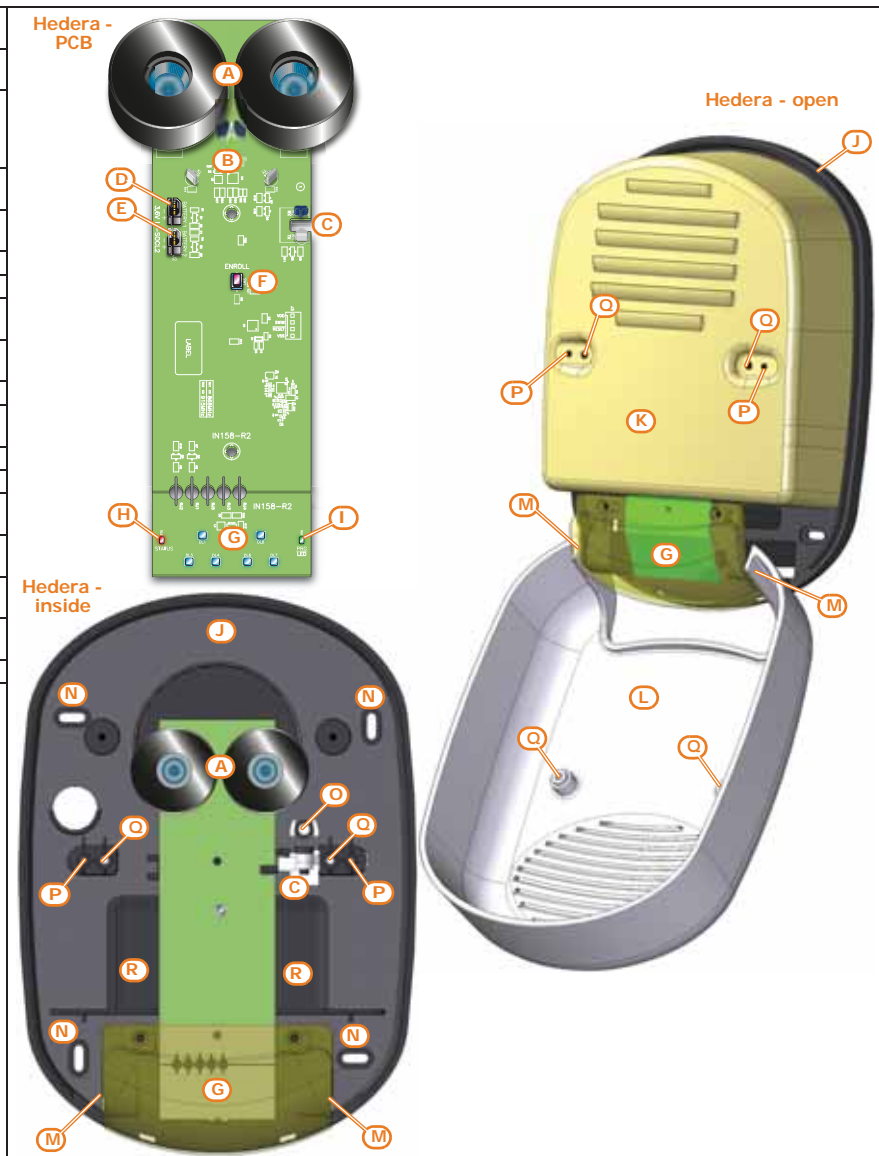


Table 3: Technical specifications

<b>Battery</b>	ER34615M 3,6V 13Ah
<b>Battery life</b>	3 years (depending on activations)
<b>"Low battery" fault voltage</b>	Less than 3V
<b>Stand-by current draw</b>	60µA
<b>Maximum current draw</b>	600mA
<b>Sound pressure at 1m.</b>	103 dB(A)
<b>Carrier frequency</b>	1148 Hz
<b>Flash rate per minute (programmable)</b>	36 -56
<b>Maximum alarm-time (programmable)</b>	4 min
<b>Operating temperature and humidity</b>	-25°C +55°C, ≤93%
<b>Dimensions (W x H x D)</b>	288 x 207 x 106mm
<b>Weight</b>	1350g
<b>Protection class</b>	IP34
<b>Security grade</b>	2
<b>Environmental class</b>	II
<b>Number of Hedera sounder/flashers supported by Air2-BS200</b>	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*).

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*).

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.

#### FLASHER

#### STATUS LED PRG LED

#### 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.

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).

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

#### CONTROL-PANEL EVENT ACTIVATIONS

#### SOUNDER/ FLASHER EVENTS

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

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

## DEACTIVATIONS

## 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 sounder/flasher 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*).
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

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:

1. Access the Installer menu, select "Sounders" then "ChoosePeripheral".
2. From the list that appears select the sounder/flasher that is to have the wireless attribute.
3. Select the "Wireless" option.
4. From the list select the wireless reader simulated by the Air2-BS200 transceiver the Hedera sounder/flasher is to be associated with.
5. Access the "Enroll device" section, then select "WirelessSiren".
6. Click on the "Enroll" button (*table 2, F*) of the Hedera sounder/flasher.
7. 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:

1. Select a sounder/flasher from the those configured in the system tree menu.
2. Access the sounder/flasher "Programming" section then click on the "Wireless" option check box.
3. Click on the "Enroll" button. The enrollment process window will open.

4. From the list select the wireless reader simulated by the Air2-BS200 transceiver the Hedera sounder/flasher is to be associated with.
5. Click on the "Enroll" button.
6. Click on the "Enroll" button (table 2, R) of the Hedera sounder/flasher.
7. 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 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 sounder/flasher.

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	

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
Squawk	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
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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.

### SOUNDERFLASHER 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.

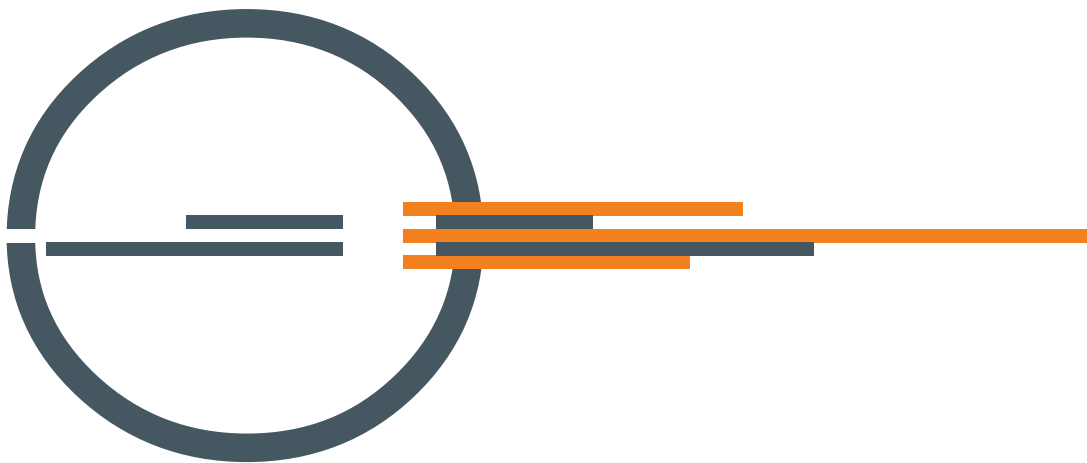
Once the programming has been completed and the parameter have been "written" on the control panel, it will take at least 30 seconds for the device to become operative.

### Note

## ORDER CODES

Please quote the following order codes when ordering items from the INIM Electronics product range:

Code	Product description
Air2-Aria	Wireless keypad with backlit graphic display
Air2-BS200/10	Wireless transceiver module, 10 terminals
Air2-BS200/30	Wireless transceiver module, 30 terminals
Air2-BS200/50	Wireless transceiver module, 50 terminals
Air2-DT200TB	Wireless dual-technology curtain detector, in white
Air2-DT200TM	Wireless dual-technology curtain detector, in brown
Air2-FD100	Wireless smoke detector
Air2-Hedera-F	Wireless outdoor sounder with anti-foam protection
Air2-Hedera-F#	Wireless outdoor sounder with anti-foam protection, batteries not included
Air2-Hedera-FM	Wireless outdoor sounder with anti-foam protection, in metal effect enclosure
Air2-Hedera-FM#	Wireless outdoor sounder with anti-foam protection, in metal effect enclosure, batteries not included
Air2-IR100	Two-way wireless PIR with 12m coverage
Air2-IR100/C	Two-way wireless PIR with 20m coverage
Air2-KF100	4 button remote-control keyfob
Air2-MC100B	Wireless magnetic contact with 2 inputs/outputs, in white
Air2-MC100M	Wireless magnetic contact with 2 inputs/outputs, in brown
Air2-MC200B	Two-way wireless magnetic contact, in white
Air2-MC200M	Two-way wireless magnetic contact, in brown
Air2-ODI100W	Wireless outdoor double infrared detector
Air2-OTT100W	Wireless outdoor triple-technology detector
Air2-UT100	Universal wireless transceiver
Air2-XDT200W	Wireless dual-technology detector - 8m
Air2-XIR200W	Wireless dual-technology PIR detector - 12m
DCMIINE0A2BS200E	Air2 devices installation manual
SmartLiving10100L	Intrusion control panel: manages 10 to 100 terminals, 15 partitions, switching power supply @5A, optional TCP/IP connectivity, comes in metal casing with housing for 1 battery @17Ah
SmartLiving10100L/G3	Intrusion control panel: manages 10 to 100 terminals, 15 partitions, switching power supply @5A, optional TCP/IP connectivity, comes in metal enclosure with housing for 1 battery @17Ah. EN50131-6 grade 3 certified.
SmartLiving1050	Intrusion control panel: manages 10 to 50 terminals, 10 partitions, switching power supply @3A, comes in metal enclosure with housing for 1 battery @ 7 or 9Ah
SmartLiving1050/G3	Intrusion control panel: manages 10 to 50 terminals, 10 partitions, switching power supply @3A, comes in metal enclosure with housing for 1 battery @ 7 or 9Ah. EN50131-6 grade 3 certified.
SmartLiving1050L	Intrusion control panel: manages 10 to 50 terminals, 10 partitions, switching power supply @3A, comes in metal casing with housing for 1 battery @17Ah
SmartLiving1050L/G3	Intrusion control panel: manages 10 to 50 terminals, 10 partitions, switching power supply @3A, optional TCP/IP connectivity, comes in metal enclosure with housing for 1 battery @17Ah. EN50131-6 grade 3 certified.
SmartLiving505	Intrusion control panel: manages 5 terminals, 5 partitions, switching power supply @ 1.2A, comes in metal enclosure with housing for 1 battery @7 or 9Ah
SmartLiving515	Intrusion control panel: manages 5 to 10 terminals, 5 partitions, switching power supply @ 1.2A, comes in metal enclosure with housing for 1 battery @7 or 9Ah



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