

Eliza S/S+

User Guide


English



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1. Read first: Safety information

 Always read and follow the safety information accompanied by this symbol.

- Always test the system according to the instructions before use and always test the product after adjustments have been made.
- The device is not always suitable for all users and should not be seen as a substitute for the caregiver's monitoring routines.
- The device are NOT intended for life-sustaining equipment, where any technical failure may result in serious injury or death.
- Check the unit regularly and replace if necessary.
- User's should pay particular attention to the potential for interference from other systems operating in the same or adjacent radio frequency bands.
- The compartment covers may be opened only by authorised persons in accordance with the instructions in the service manual.

CAUTION

Only use batteries, power supply and accessories that have been approved for use with this particular model. Connecting other accessories may be dangerous and may invalidate the type approval and guarantee.

- Only use recommended power supply as stated in the Technical Data section.
- The power supply can be used as a disconnecting device. The wall socket shall be installed near the equipment and shall be easily accessible.

IMPORTANT!

This device use the mobile phone network. This means that connection cannot be guaranteed in all circumstances.

1.1. Battery safety

The Eliza unit and the personal radio trigger contains Lithium batteries with inherent risks if not used correctly or if damaged.



Lithium batteries can cause potential chemical burn hazards associated with ingestion. If swallowed or placed inside any part of the body, seek immediate medical attention.



Keep batteries away from children.

- Battery replacement may be performed only by authorised persons in accordance with the instructions in the Maintenance section, *see 12. Maintenance on p. 22.*
- Only use batteries recommended and designated for the product.

- Only use the charging device and cord that is designated for the product.
- Do not charge or use the device if you notice any malfunction or potential problem with the battery as odour, change in colour, too much heat, change in shape, leaking or odd noises.
- Do not disassemble, crush, puncture, or damage batteries.
- Keep batteries safely stored in a cool and dry place, store them in their original packaging or a designated container, and avoid exposing them to extreme temperatures or moisture.
- If a fire occurs: Copious amounts of cold water is an effective extinguishing medium for lithium batteries. Don't use warm or hot water. Don't use Halon type extinguishing material. You may use dry powder, sand or soil.



Consult the Material Safety Data Sheet (MSDS) for further first-aid measures, fire-fighting measures, and other safety information.



Immediately remove empty batteries, store and dispose them properly. Further information available in the Environmental information section, *see 14.1. Environmental information on p. 25.*

1.2. Medical units

The use of equipment that transmits radio signals as a social alarm, can interfere with insufficiently protected medical equipment. Consult a doctor or the manufacturer of the equipment to determine if it has adequate protection against external radio signals, or if you have any questions.

To avoid potential interference, manufacturers of implanted medical devices recommend a minimum separation of 15 cm between a wireless device and the medical device.

If you have any reason to suspect that interference is taking place, turn off the social alarm immediately. If you have any questions about using your social alarm with an implanted medical device, consult your health care provider.

2. Important information

All systems using radio and network communication are subject to interference beyond the user's control.

Products from Careium are designed to minimise the impact of such interference.

Nevertheless, the user must be aware that system components can be subjected to interference or other influences that may cause malfunction.

It is therefore important to regularly check that every part of the system works in all areas, especially radio communications. Contact your supplier immediately in case of any suspected malfunction.

Users should pay particular attention to the risk of disruption from products which communicate using the same or adjacent radio frequency bands.

For further information, please contact your supplier or refer to the service manual or the documentation at www.careium.com/support.

The device has a rechargeable battery that enables the device to be operated even in the event of a power failure. The device will beep for a short while after power failure. The alarm receiving centre will be notified in the event of power failure as well as low charge level. When the battery reaches a low charge level, this is indicated by a blinking status light, *see 5.3. Indicator lights & symbols on p. 12.*

The backup battery power supply secures the operation up to 168 hours for Eliza S and 72 hours for Eliza S+.

3. Package contents

- Eliza S/S+
- Power supply
- Radio trigger with accessories
- User guide/Quick start guide

4. Description of functions

Eliza S/S+ is a digital social alarm and smartcare hub. Adaptable for future needs and connects to a wide range of accessories and welfare services – enabling the user a tailor made solution.

Eliza S/S+ allow the user to call for assistance if they have an accident or a fall at home. Eliza S/S+ can potentially be a life-saving device if someone has a fall or some other accident when they are alone.

Eliza S/S+ has a built in module for 2G, 3G and 4G mobile networks. Eliza S+ can transmit alarms over broadband/ network connections and mobile phone networks. Eliza S can transmit alarms over mobile phone networks.

The unit offers the user the possibility of two way handsfree voice communication, even if the users is far away from the Eliza S/S+. Voice communication can be used either with VoIP (Voice over Internet Protocol) or mobile communication.

The unit uses SIP, a standard protocol to initiate speech and video over digital connections. In addition to voice connected alarm calls, Eliza S/S+ offers a platform for transfer of detailed alarm information, speech messages, online status etc.

The Eliza S/S+ is assigned an unique identification number (ID) that is transferred and corresponding to personal information stored in the alarm receiving centre (ARC).

The radio trigger is designed for use with the unit, *see 10. Radio trigger on p. 21.*

4.1. Activate the alarm

The assistance alarm can be activated:

- by pressing the button on a paired radio trigger.
- by pressing the integral alarm button on the Eliza S/S+.

On activation, the Eliza S/S+ calls an alarm receiver to summon help.

4.2. Radio transmitters

50 radio transmitters (triggers/sensors) can be programmed with the Eliza S/S+, e.g. a radio trigger. In the event of an alarm from a radio transmitter, the battery status of the radio transmitter is tested.

4.3. Alarm receivers

Up to 10 alarm receivers can be programmed. The alarm is identified using an alarm code which is programmed into the Eliza S/S+.

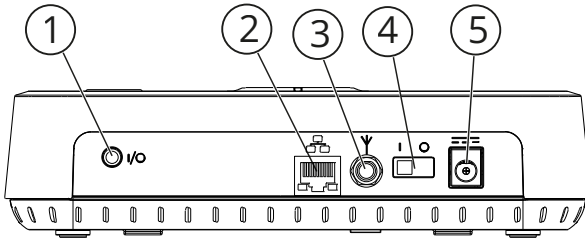
The person receiving the alarm can then speak directly with the person raising the alarm and take appropriate action.

4.4. Other functions

Additional functions can be activated or modified – refer to the service manual or contact your supplier for further information.

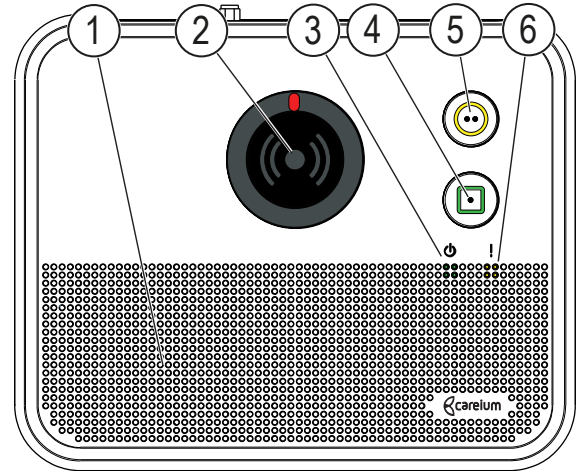
5. Overview

5.1. Back view








- | | |
|-------------------------------|--|
| 1. I/O connector | 3.5 mm audio out or wired input |
| 2. Ethernet port | Connection for Ethernet cable from broadband/network (Eliza S+ only) |
| 3. External antenna connector | For an external antenna that must be adapted for use with 2G/3G/4G |
| 4. Power switch | Turns Eliza S/S+ on or off |
| 5. Power supply socket | 9V, 2A |

5.2. Top view



- | | |
|--------------------------------------|---|
| 1. Loudspeaker | 5. Button with circular symbol (yellow) |
| 2. Alarm button | 6. Status indicator |
| 3. Power indicator | |
| 4. Button with square symbol (green) | |

5.3. Indicator lights & symbols

2		ALARM	RED
		Steady light	Normal operation
		Blinking light	Alarm activated
3		ON	GREEN
		Steady light	Mains power
		Blinking light	Mains failure
4		GREEN SQUARE	
			Press to cancel an alarm
5		CIRCLE	YELLOW
			Service menu etc.
6		STATUS	RED
		Off	Normal operation
		Steady light	Network problem
		Blinking light	Low battery

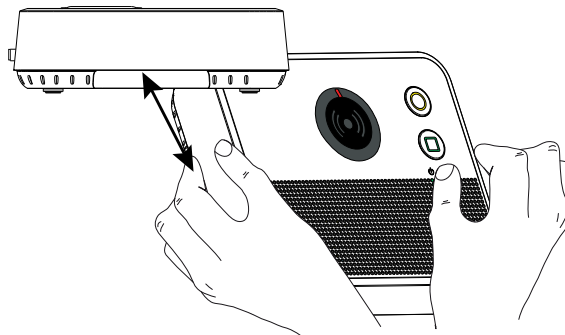
6. Installation

6.1. Remove top cover



CAUTION

Only authorised persons may open the cover. Turn off the device and disconnect the external power supply before removing the cover.



- Ensure that Eliza S/S+ is switched off.
- Place your fingers of both hands in the grooves on the sides of Eliza S/S+ and gently pull outwards and upwards on the top cover.

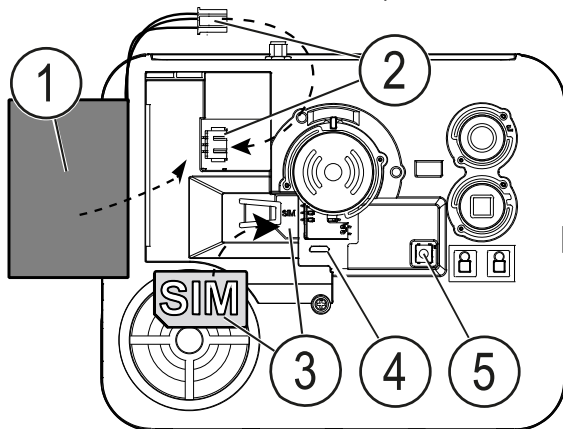


IMPORTANT

Do not bend or twist the cover excessively as it may get damaged.

6.2. Inside view

Illustration below is shown with the top cover removed.



1. Battery
2. Battery connector
3. SIM card slot
4. Maintenance USB-port
5. Volume button

6.3. Install the SIM card

IMPORTANT

Turn off the device and disconnect the external power supply before removing the cabinet.

- Carefully move the battery aside to expose the SIM card holder. If the battery already is installed, please note if the battery is connected to not damage the wiring.
- Install the SIM card according to picture, note the markings.
- Replace or install the battery.


IMPORTANT

Always make sure the battery is connected if the device is new or has been stored.

- Replace the cover, press between the three buttons, a clicking sound indicates that the cover has closed properly.

6.4. Connection

Eliza S/S+ is easy to install:

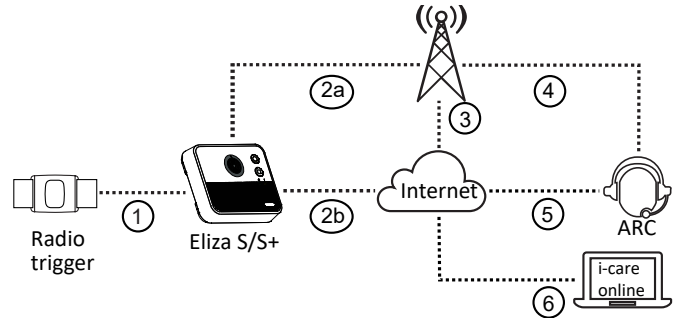
1. Connect the power supply to the wall socket and the power supply lead to the Power supply socket. Keep the device connected to the mains power at all times.
2. Turn the power switch to the **I** position
3. Check that the **On**  indicator lamp has a steady red light
4. The status light shall go off within 120 seconds if the mobile network (GSM/UMTS/LTE) is detected
5. Carry out a test alarm from the Eliza S/S+

CAUTION

Installation must be performed only by authorised persons in accordance with the instructions in the service manual.

7. Communication path

Example of a simplified communication path



1. Radio or wired alarm trigger activated.
2. Depending on selected transmission path:
 - a. Connection via mobile network (GSM/UMTS/LTE) (Eliza S/S+).
 - b. Fixed network connection (only Eliza S+).
3. Data connection via mobile network (GSM/UMTS/LTE).
4. Voice connection via mobile network (GSM/UMTS/LTE).
5. Data connection to a digital Alarm Receiving Centre (ARC).
6. Optional connection to i-care® online management system.

8. Programming



Contacts, alarm codes and settings are programmed via the device management system i-care® online www.icareonline.com or with a computer via a web browser.

In some cases, the device is delivered fully programmed or programmed automatically at start-up.

For help with programming, please refer to the service manual or contact your supplier.

8.1. Pairing radio triggers

Up to 50 radio triggers/sensors or other radio-alarm transmitters can be paired to Eliza S/S+.

- Press and hold the button with Green square  for 4 seconds and release when an audible signal is played and the Power indicator  starts to blink.
- Activate the radio transmitter. When Eliza S/S+ receives the radio signal an audible signal is played.
- Confirm the pairing by pressing and releasing the red integral alarm button once on Eliza S/S+. The successful pairing is confirmed with an audible signal.
- The radio trigger is now paired and set to a default alarm type. The alarm type can be changed anytime using the optional i-care® online service.


Note: Repeat the steps above to pair additional radio triggers.

9. Verification

Always check the function after installation and pairing. Test alarms shall be done regularly and in a way that secures the whole alarm chain from radio transmitter to alarm receiver.

9.1. Check the radio coverage

Always check the function after installation and pairing.






- Press and hold the button with Green square  for 4 seconds.
- Press/activate the radio trigger/accessory. When Eliza S/S+ receives the radio signal, you will hear a tone. Repeat this in all areas where the radio trigger/accessory shall function.

9.2. Check the mobile network signal strength

When installing the Eliza S/S+, the mobile network signal strength must be verified. The mobile network signal strength can be checked via www.icareonline.com or see *9.2.1. On device check on p. 20*. For more information, see the service manual.

9.2.1. On device check

Check the mobile network signal strength on the device.

1. Press and hold the button with Yellow circle .
2. A synthetic voice will say, **-Service Mode!**
3. Press once on the button with Green square .
4. A synthetic voice will say, **-Signal strength!**
5. Press the Main Integral alarm button  once.
6. The actual signal strength will be presented via a synthetic voice.
7. Press once on the button with Green square .
8. A synthetic voice will say, **-Exit!**
9. Press the Main Integral alarm button  once.

***Note!** If acceptable value can't be achieved, the device must be repositioned or an external antenna must be used.*

9.3. Automatic test

The functionality of the Eliza S/S+ and its communication can automatically be checked down to every other minute through the optional i-care[®] online service. It can also be checked by automatic function monitoring or a periodical test report to the Alarm receiving centre (ARC), for example once a day.

The linked radio triggers can be automatically tested through Periodical radio test transmission (default ON). It is configurable and will be set in conjunction with radio transmission. The result is normally checked once every day depending on settings.

10. Radio trigger

The radio trigger uses two-way radio communication, this means that when Eliza S/S+ receives an alarm from a radio trigger the carephone will send a confirmation of receipt to the radio trigger. This is confirmed on the radio trigger by indicator light change from red to green. If the radio trigger doesn't get any confirmation, the alarm is repeated.

The radio trigger can be worn using a wristband or neckband.

The radio trigger is waterproof according to IP67 by an integrated gasket and can be carried in the shower and in wet environment.

11. General information

- Verification of mobile network coverage should always be done as a part of installation.
- In order for an alarm to be sent, at least one alarm receiver/response centre needs to be programmed.
- The Eliza S/S+ must not come into contact with water or any other liquid.
- Eliza S/S+ need to be equipped with a mini-SIM (2FF) and having an appropriate mobile subscription including voice and data.

12. Maintenance

12.1. Cleaning

The Eliza S/S+ and the radio trigger should be cleaned using a slightly damp cloth.

Do not use other solvents when cleaning.

Note! *By ordering a complete housing set you can upgrade your used radio trigger to look as brand new.*

12.2. Reinstatement

If the Eliza S/S+ is reinstated at a new user, it shall be reset to default settings and re-programmed according to the data and requirements of the new user.

12.3. Battery management

Effective battery management is essential for the reliability of telecare devices. Battery replacement periodicity and recommendations is described in the Technical handbook. When replacing the battery it is important to follow the safety precautions as described in the Battery safety section *see 1.1. Battery safety on p. 4*, replacement instructions in the Technical handbook and recycling guidance as described in the Environmental information section *see 14.1. Environmental information on p. 25*.



CAUTION

Battery replacement may be performed only by authorised persons in accordance with the instructions in service manual.

13. Technical data

13.1. Carephone Eliza S/S+

Model no:	A150
Dimensions:	170 x 138 x 43 mm (L x W x D)
Weight incl. power supply and cables:	0.6 kg
Power supply:	9 VDC power supply
Power consumption:	2W (Nominal)
Backup battery:	3.7 V, 2000 mAh, Li-Ion
Backup time:	Eliza S: Up to 168 hours Eliza S+: Up to 72 hours (new and fully charged battery)
Inputs:	1 Normally Open (NO)
Output:	Audio
Communication:	GSM 2G, UMTS/HSDPA 3G, LTE 4G, Ethernet (only Eliza S+)
Radio frequency band:	869,2-869,25 MHz
Number of radio transmitters:	Up to 50
Equipment class:	Class 1 radio equipment <i>Class 1</i>
Bluetooth, version:	5, BLE , long range
ZigBee:	IEEE 802.15.4

14.2. Ecodesign

This product complies with applicable regulations under the Ecodesign for Sustainable Products Regulation (ESPR). The full information regarding the ecodesign requirements is available at the following internet address:

www.careium.com/ecodesign

14.2.1. External power supply

Manufacturer's name or trade mark, commercial registration number and address.	Tenpao International. Room 10-11,6/F., Kwong Sang Hong Centre, 151-153 Hoi Bun Road, Kwun Tong, Kowloon, HongKong
Model identifier	S018BAM0900200
Input voltage	100-240 VAC
Input AC frequency	50-60 Hz
Output voltage	9 VDC
Output current	2 A
Output power	18 W
Average active efficiency	86,64 %
Efficiency at low load (10 %)	84,12 %
No-load power consumption	0,057 W

14.2.2. Standby and off mode

The product is network connected with high network availability functionality (HiNA).

- Wireless network ports can be disabled through software configuration.

For more information see: www.careium.com/ecodesign

15. Others

15.1. Declaration of conformity

Hereby Careium Sweden AB declares that this radio equipment is in compliance with the RE Directive 2014/53/EU as well as other applicable EU and UK regulations. The full text of the declarations of conformity is available at: www.careium.com/dofc

15.2. Legal notices

The information contained here is subject to change without notice. The only warranties for Careium products and services are set forth in the express warranty statements.

Nothing herein should be construed as constituting an additional warranty.

Careium shall not be liable for technical or editorial errors or omissions contained herein.

A150 (Eliza S/S+)

English

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