

Doro Eliza (A150)

User Guide

English



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1. Read first: Safety information



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

- 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 on the backside may be opened only by authorised persons in accordance with the instructions in the service manual.
 - Battery replacement may be performed only by authorised persons in accordance with the instructions in the Maintenance section. Only use recommended battery type as stated in the Technical Data section.
-



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.

2. Important information

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

Products from Doro 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.doro.com/care.

3. Package contents

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

4. Description of functions

Doro Eliza 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

Doro Eliza has a built in module for 2G, 3G and 4G mobile networks, the unit has possibility to transfer alarms over broadband/network connections and mobile telephone networks. The unit offers the user the possibility of two way voice communication using existing standard for VoIP (Voice over Internet Protocol) calling. The unit uses SIP, a standard protocol to initiate speech and video over broadband connections. In addition to voice connected alarm calls, Doro Eliza offers a platform for transfer of detailed alarm information, speech messages, online status etc.

The Doro Eliza 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 adapted for use with the unit, *see 9. Radio trigger on p. 16.*

Activate the alarm

The assistance alarm can be activated:

- by pressing the button on a radio trigger.
- by pressing the red integral button on the Doro Eliza.

On activation, the Doro Eliza calls an alarm receiver to summon help.

Alarm transmitters

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

Alarm receivers

Up to 10 alarm receivers can be programmed. The alarm is identified using an alarm code which is programmed into the Doro Eliza. An alarm placed to a private receiver is identified by a recorded voice ID.

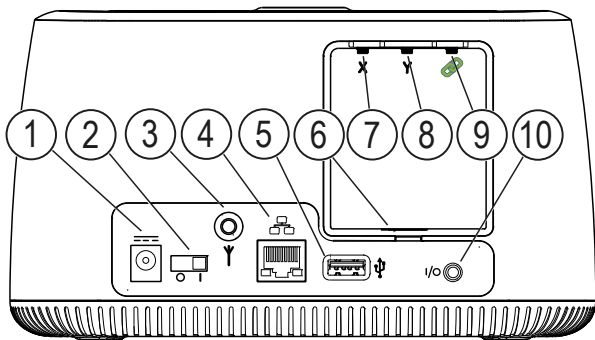
The person receiving the alarm can then speak directly with the person raising the alarm and take appropriate action.


Other functions

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

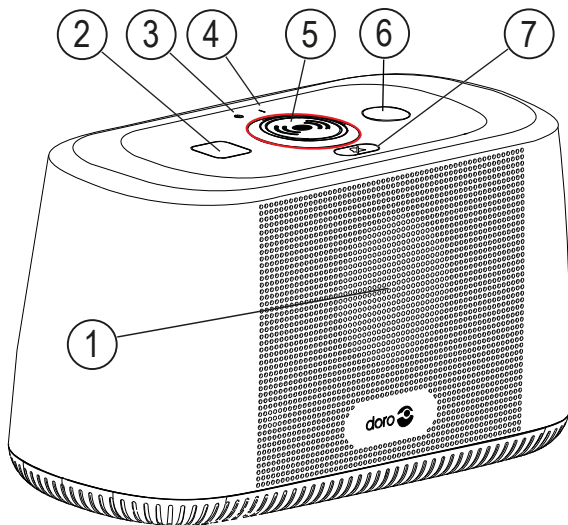
5. Overview

Back view









- | | |
|-------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| 1. Power supply socket | 9V, 2A |
| 2. Power switch | Turns Doro Eliza on or off |
| 3. External antenna connector | For an external antenna that must be adapted for use with Doro Eliza |
| 4. Ethernet port | Connection for Ethernet cable from broadband/network |
| 5. USB-port | For USB expansion |
| 6. USB-port | |
| Maintenance buttons under the compartment cover | |
| 7. X-key X | Erase button |
| 8. Y-key Y | TBD |
| 9. Link key  | Radio pairing button |
| 10. I/O connector | 3.5 mm audio out or wired input |

Front/top view



- | | |
|--------------------------|-----------------------------|
| 1. Loudspeaker | 5. Alarm button (red) |
| 2. Square button (green) | 6. Circular button (yellow) |
| 3. Power indicator | 7. Cancel alarm (white) |
| 4. Status indicator | |

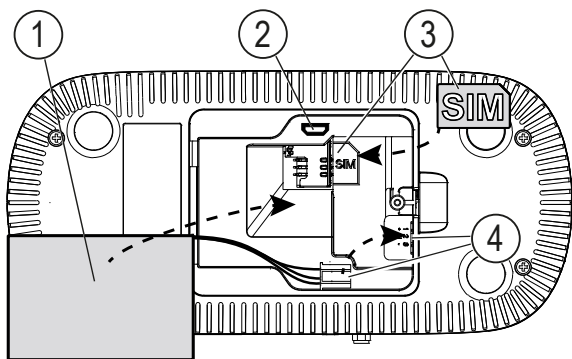
Indicator lights

| | | | |
|---|-----------------------------------------------------------------------------------|--------------------------|------------------------------------------------------|
| 2 |  | SQUARE | GREEN |
| | | Subject to configuration | |
| 3 |  | ON | RED |
| | | Steady light | Mains power |
| | | Blinking light | Mains failure |
| 4 |  | STATUS | RED |
| | | Off | Normal operation |
| | | Steady light | Ethernet link ¹ or mobile network problem |
| | | Blinking light | Low battery |
| 5 |  | ALARM | RED |
| | | Steady light | Normal operation |
| | | Blinking light | Alarm activated |
| 6 |  | CIRCLE | YELLOW |
| | | Subject to configuration | |
| 7 |  | CANCEL | WHITE |
| | | Steady light | |

1 Disable Ethernet link supervision if only mobile network is used.

Bottom view

Illustration below is shown with the compartment cover removed.



- | | |
|-------------------------|--------------------------------|
| 1. Battery | 3. SIM card slot under battery |
| 2. Maintenance USB-port | 4. Battery connector |



CAUTION

Only authorised persons may open the compartment covers and perform wiring in accordance with the instructions in the service manual.

6. Installation

Install the SIM card



IMPORTANT

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

- Ensure that Doro Eliza is switched off.
 - Remove the compartment cover.
 - 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.

- Mount the cover for the SIM card compartment.
-




CAUTION

1234 or 0000 are not appropriate PIN codes for the SIM card, if any of these PIN codes are used, the code should be changed before installation. Change of PIN code is preferably done using a mobile phone.

Connection

Doro Eliza is easy to install, if broadband/network connection shall be used, connection is made with with a network cable (not included). Normally Doro Eliza is set to use DHCP, which means that the unit automatically will be assigned an IP address when connected to a network.

1. Connect the power supply to the wall socket and the power supply lead to the DC input socket.
2. Connect the network cable from the broadband/network to the Ethernet socket on Doro Eliza.
3. Turn the power switch to the **I** position
4. Check that the **On**  indicator lamp has a steady red light
5. The status light shall go off within 90 seconds if the mobile network (GSM/UMTS/LTE) is detected
6. Carry out a test alarm from the Doro Eliza

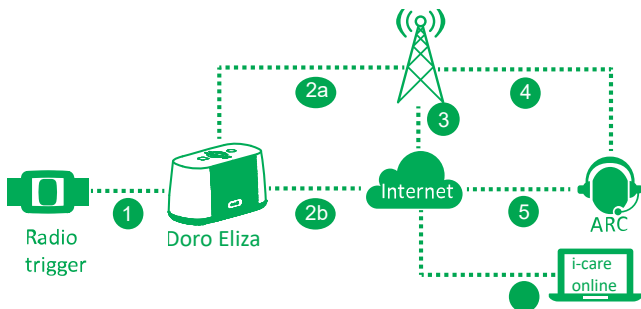


CAUTION

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) to Voice, IP alarm protocol and additional data
 - b. IP on Ethernet, VoIP, IP social alarm protocol and additional data
3. IP connection via mobile network (GSM/UMTS/LTE)
4. Voice connection via mobile network (GSM/UMTS/LTE)
5. IP connection to a digital Alarm Receiving Centre (ARC)
6. Optional connection to i-care® online system.



8. Pairing

Contacts, alarm codes and settings are programmed using www.icareonline.com or by using a computer via a web-browser.

In some cases, the Doro Eliza can be delivered pre-programmed by the supplier. For help with pairing, please refer to the service manual or contact your supplier.

Pairing radio triggers


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

- Press and hold the radio pairing button  (**Link key**) and release when an audible signal is played and the Power indicator  starts to blink.
- Activate the radio transmitter. When Doro Eliza receives the radio signal an audible signal is played.
- Confirm the pairing by pressing and releasing the red integral alarm button once on Doro Eliza. 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.

Check the radio coverage

Always check the function after installation and pairing.

- Press and immediately release the radio pairing button  (Link key).
- Press/activate the radio trigger/accessory. When Doro Eliza receives the radio signal, you will hear a tone. Repeat this in all areas where the radio trigger/accessory shall function.

Check the mobile network signal strength

When installing the Doro Eliza, the mobile network signal strength must be verified.

The mobile network signal strength can be checked via www.icareonline.com or by using a local computer via any web browser. For more information, see the service manual.

Note! *If acceptable value can't be achieved an external antenna must be used.*

Check the functionality

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.

Automatic test

The functionality of the Doro Eliza 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 or once a week.

9. Radio trigger

The radio trigger uses two-way radio communication, this means that when Doro Eliza 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.

10. General information

- If Broadband/network connection is used the unit should always be connected to the network as near the router (or Ethernet connection) as possible.
- 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 Doro Eliza must not come into contact with water or any other liquid.
- Used batteries shall be disposed of in an environmentally-responsible manner.
- If the Doro Eliza is supposed to be connected to a mobile network it need to be equipped with a mini-SIM (2FF) and having an appropriate mobile subscription including voice and data.

11. Maintenance

Cleaning

The Doro Eliza and the radio trigger should be cleaned using a slightly damp cloth, or by Doro approved disinfectants.

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.*

Reinstatement

If the Doro Eliza 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.

Replace the battery

Battery should be replaced within three years, or a.s.a.p after battery alarm that is not related to a power cut. It's normal that a long-term power cut generates a battery alarm.

Replace the radio trigger battery

To replace the radio trigger's battery, please refer to the service manual or contact your supplier.



CAUTION

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

12. Technical data

Carephone Doro Eliza

| | |
|---------------------------------------|-----------------------------------------------------------|
| Model no: | A150 |
| Dimensions: | 197 x 92 x 112 mm (L x W x D) |
| Weight incl. power supply and cables: | 0.7 kg |
| Power supply: | 9 VDC power supply |
| Power consumption: | 2W (Nominal) |
| Backup battery: | 3.7 V, 2000 mAh, Li-Ion |
| Backup time: | 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, Wi-Fi (optional) |
| Radio frequency band: | 869,2-869,25 MHz |
| Number of radio transmitters: | Up to 50 |
| Equipment class: | Class 1 radio equipment <u>Class 1</u> |

Mobile networks

(MHz) [maximum radio-frequency power/dBm]

Network bands:

| | |
|---------------------|------------------------------------------------------------------------------------------------|
| 2G GSM | (900) [33], (1800) [30] |
| 3G UMTS | 1 (2100) [24], 8 (900) [24] |
| 4G LTE FDD | 1 (2100) [24], 3 (1800) [24], 7 (2600) [24], 8 (900) [24], 20 (800) [24] , 28 (700) [24] |
| SIM card interface: | 1,8V and 3V mini-SIM (2FF) |

Other radio

(MHz) [maximum radio-frequency power/dBm]

| | |
|---------------------|------------------------------------------------------------------------------------|
| SRD: | (869.200-869.250) [10] |
| Bluetooth, version: | 5, BLE , long range (2402 - 2480) [10] |
| ZigBee: | IEEE 802.15.4 (868.0 - 868.6) [20], (2400 - 2483.5) [20] |
| Wi-Fi: | IEEE 802.11 b/g/n, (2412 - 2472) [19] IEEE 802.11 a/n, (4915 - 5835) [18] |

Portable radio trigger, Doro Enzo

| | |
|-------------------------------|-----------------------------|
| Dimensions: | 39 x 32 x 11 mm (L x W x D) |
| Battery: | 3V lithium battery CR 2032 |
| Battery life: | Up to five years |
| Water resistance: | Complies with IP67 |
| Radio frequency band: | 869,2-869,25 MHz |
| Radio frequency power: | max. 10 mW (10 dBm) |

Environment

This product is intended for indoor use in a normal residential environment.

| | |
|-------------------------------|------------------------------------------------|
| Operating temperature: | 5° C (41° F) - 35° C (95° F) |
| Humidity: | 0% to 75% relative humidity (non-condensed) |
| Environmental class: | 1 (EG-I) |

Declaration of conformity

Hereby, Doro declares that the radio equipment type A150 and 9150 is in compliance with Directives: 2014/53/EU and 2011/65/EU including delegated Directive (EU) 2015/863 amending Annex II.

The full text of the EU declaration of conformity is available at the following internet address:

www.doro.com/dofc.

Ecodesign declaration, energy efficiency for external power supply

Hereby, Doro declares the external power supply for this device is in compliance with Commission Regulation (EU) 2019/1782 regarding ecodesign requirements for external power supplies pursuant to Directive 2009/125/EC.

The full information regarding the ecodesign requirements is available at the following internet address:

www.doro.com/ecodesign

Environmental information

This product complies with the requirements of the EU directives, 2012/19/EU (WEEE) and 2006/66/EC (batteries). These directives regulate the product liability for electrical and battery recycling with the purpose of increasing recycling and minimising waste. The unit is marked with the crossed out wheeled bin logo, which indicates that it shall be handed in for recycling. The product can be returned free of charge to a recycling station that is connected, directly or via a recycling system, to Doro or to your distributor. For detailed instructions, please check with your distributor or visit our website,

www.doro.com.



Note! The WEEE information and recycling instructions applies to European Union member states only. For other countries please check local legislation or contact your distributor. Manufactured in accordance with the EU directive, 2011/65/EU (RoHS2). The materials used in the radio trigger wristband and neckband meet the textile safety requirements of Oeko-Tex standard 100.

Legal notices

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

Nothing herein should be construed as constituting an additional warranty.

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

A150 (Doro Eliza)

English

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