

User manual

EN

Contents

	P
1	General 55
1.1	About this user manual 55
1.2	Explanation of symbols used 55
1.2.1	Symbols in the user manual 55
1.2.2	Symbols on labels 55
2	Safety instructions 56
2.1	General safety 56
2.2	Safety during use 56
3	The NightWatch 57
3.1	Product description and intended use 57
3.2	Operation mode 57
3.3	Medical classification 57
3.4	User profile 58
3.4.1	Intended users 58
3.4.2	Contra-indications 58
3.4.3	Intended use environment 58
3.5	Possible side effects 58
3.6	Clinical benefits 58
3.7	NightWatch package contents 58
4	The different components and how they work 60
4.1	Arm module with elastic strap 60
4.2	Base station 61
5	How to prepare your NightWatch for first use 62
5.1	Step 1: Adjust the armband 62
5.2	Step 2: First activation and charging the arm module 63
5.3	Step 3: Using the base station 64
5.4	Daily use 65
5.5	Maintenance 65
5.6	Reuse 66
5.7	Transport or storage 66
6	Signals from the arm module and the base station 67
6.1	Arm module and base station display the same signal 67
6.2	Signals while the arm module is charging 68
6.3	Regulating the sound on the base station 69
6.4	Testing the NightWatch 69
6.5	Connection to an external call system (optional) 69
6.6	Reading out the NightWatch data 70
7	Technical specifications 71
7.1	Specifications NightWatch 71
8	Contact information 72
9	Service life and guarantee 73
10	Disposal 74

1 General

1.1 About this user manual

This manual provides the information necessary to use the NightWatch in a safe and effective manner. Please read the manual before using the NightWatch. If any part of this manual is unclear, please contact support. The latest revision of the User Manual can be found at www.nightwatchepilepsy.com.

1.2 Explanation of symbols used

1.2.1 Symbols in the user manual



Warning



General mandatory precaution

1.2.2 Symbols on labels



The device contains electrical waste and must not be disposed of with normal household waste. After the usual service life, the NightWatch should be returned to the manufacturer. Please contact LivAssured for instructions: info@nightwatch.nl



Applied part, type BF



Manufacturer (including the manufacturer's address next to the symbol)



Serial number, production date followed by an identifier

IP20

IP classification of protection by enclosure (no protection)



Please consult the manual



CE Mark



Temperature limits
(minimum + maximum)



Humidity limits
(minimum + maximum)

2 Safety instructions

2.1 General safety



- Only use this manual for product ID: NightWatch.
- The instructions below must be followed.
- Do not accept and use the device if there are signs of piercing, manipulation, water damage or any other damage to the packaging or label.
- The NightWatch must only be repaired by qualified personnel.
- Ensure that the labels on the product are present and legible at all times. Do not remove the labels.
- Do not use this product in an environment where DECT signals may be blocked or interfered with by environmental properties or other equipment.
- This product does not guarantee that all seizures will be detected.
- Always ensure the distance between the base station and the arm module does not exceed 15 metres.



- Always fully charge the battery before use to guarantee uninterrupted use.
- Check full functionality of the device before use.
- Read the instructions for use before using the product.
- Any serious incident that has occurred in relation to the device should be reported to the manufacturer and the competent authority of the country in which the user is established.

2.2 Safety during use



- Inspect all components for damage before use.
 - Please ensure the arm module, the base station, the various chargers and cables do not come into contact with water.
 - In case of damage to adapters, insulation materials or electrical parts, do not use the device and return to the manufacturer.
 - Do not wear the arm module while it is charging.
 - Do not use and place the NightWatch near a radiator.
 - Do not use the NightWatch in the bath or shower.
 - Do not submerge the NightWatch in water or other liquids.
-
- Only use the charger for the arm module as supplied by LivAssured to charge the arm module.
 - Only use the AC adapter as supplied by LivAssured to power the base station.
 - Discontinue use if skin irritation occurs and contact the supplier.



3 The NightWatch

3.1 Product description and intended use

NightWatch is intended to notify a caregiver of the occurrence of a patient's Nocturnal Epileptic Motor Seizures(*) in order to allow caregivers to take appropriate caring measures.

(*)Nocturnal Motor Seizures, being the following seizure types¹:

- Tonic-Clonic Seizures
- Tonic (if cluster or prolonged)
- Myclonic (if cluster)
- Focal impaired awareness with hyperkinetic movements

NightWatch is not intended for diagnosis or treatment purposes.

3.2 Operation mode

NightWatch is a wearable device and consists of a wireless arm module and a base station. The arm module is worn during sleep on one of the limbs, preferably the biceps of the upper arm. The armband consists of a heart-rate sensor using PPG (photoplethysmography) and a ACC (Accelerometry) movement sensor, and a microprocessor which processes the data from the sensors using a detection algorithm.

NightWatch does not provide direct monitoring of the measured heartrate or movement data. NightWatch is not a heart rate monitor.

The detection algorithm detects if the sensor readings match preprogramed parameters that are associated with a nocturnal motor seizures, the seizure alert is triggered and transferred to the accompanying base station.

The arm module and base station communicate using the wireless DECT protocol. When a seizure

alert is transmitted from the arm module to the base station, the base station alerts the caregivers by a ringing sound and a blinking LED light. A caregiver can then go to if the PWE and, if necessary, assist according to instructions received by their physician.

The base station also alerts the caregiver with beeps and blinking LED lights in case the system is not able to detect seizures for technical reasons, such as a depleted battery, a lost connection between arm module and base or if the arm module is able to heartrate or movements to perform seizure detection.



PLEASE NOTE: This product does not guarantee that all epileptic seizures are detected. It should be used as an aid to detect nocturnal seizures. It does not replace responsible supervision of the patient.



PLEASE NOTE: This product is not intended for diagnosis or treatment of epilepsy. This device may also give seizure alerts if no seizure is taking place.



PLEASE NOTE: This product tracks heartrate using photoplethysmography (PPG) and uses this information to detect epileptic seizures. The effectivity of reading heartrate with PPG may vary from person to person. The device will notify the caregiver with sound and light signals if the product cannot track a reliable heartrate for seizures detection.

3.3 Medical classification

The NightWatch is a class 1 device in accordance with Annex VIII Classification rules of the EU regulation concerning medical devices, (EU)2017/745, dated 5 April 2017 (the "Medical Device Regulation").

¹. Nomenclature is based on the classification of epileptic seizures by the International League Against Epilepsy (ILAE, 2017):

3.4 User profile

3.4.1 Intended users

Users of the NightWatch are people diagnosed with epilepsy from the age 4 and up, having nocturnal motor seizures and caregivers thereof.

3.4.2 Contra-indications

NightWatch is not intended to be used by:

- Persons not diagnosed with epilepsy
- Persons diagnosed with epilepsy having other than nocturnal motor seizures.
- Persons diagnosed not having limbs to wear the device on.

3.4.3 Intended use environment

The NightWatch is intended to be used at home or at residential care facilities.

The NightWatch is not intended to be used in intensive care environments.

3.5 Possible side effects

There are possible side effects related to wearable devices that involve sensor application on the skin. These include the following:

- Edema
- Erythema
- Irritation
- Sensitization



PLEASE NOTE: Wearing the arm module can cause skin irritation, such itching or temporary rash. Regularly cleaning the arm module before use can help resolve this. If the problem persists, there are special plasters available which will relieve the symptoms in most cases. Please contact your supplier in this case. See section 9 for contact details.

3.6 Clinical benefits

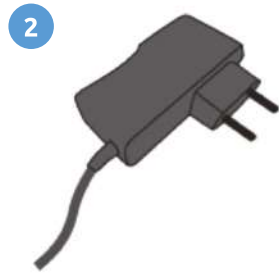
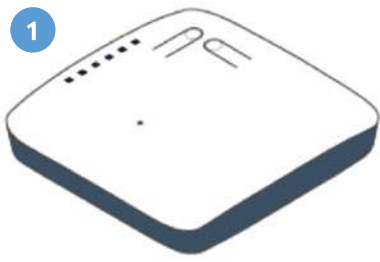
The NightWatch assists caregivers in nocturnal supervision by detecting more nocturnal motor seizures compared to supervision without such

device and notifying caregivers of such seizures to allow timely intervention. This reduces the chance of harm as a result of missed seizures when no assistance is provided to the person having seizure. Less missed seizures and decreased probability of harm lead to reduced stress for people with epilepsy and their caregivers.

3.7 NightWatch package contents

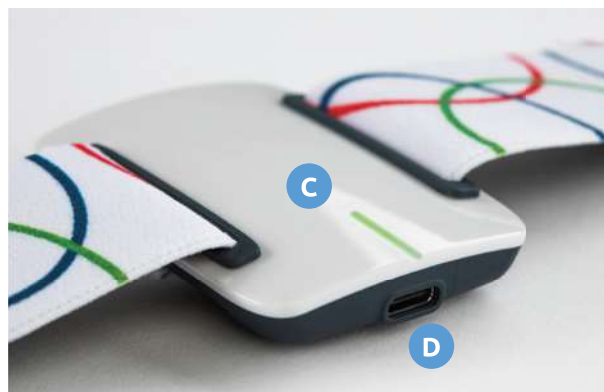
The NightWatch package contains the following items:

1. Base station
2. The GS-0500200A power adapter for the base station (black)
3. Arm module
4. Charger for arm module (white):
 - 4.1 Compact Fixed Blade Charger 2.75W
 - 4.2 USB to USB-C cable 1 meter with 6.5 mm connector
5. Elastic strap (1m)
6. Armband clips (4 in total, including 2 spare clips)
7. Travel case
8. Manual
9. Alert card



4 The different components and how they work

4.1 Arm module with elastic strap



- A** = heart rate sensor + LEDs
- B** = ON/OFF switch
- C** = Indicator light
- D** = Charging point

The arm module is worn on the upper arm and held in place with an elastic strap. The best position for the arm module is facing forward around the upper arm between the biceps and the shoulder.

The arm module continuously tracks the wearers movement and heartrate in order to detect epileptic seizures. The two green LEDs (A) on the dark grey underside of the arm module are part of the sensor that tracks the wearer's heartrate.

In case a possible epileptic seizure has been detected, the arm module sends a signal to the base station which may alert the care giver. The arm module is powered by an integrated rechargeable battery and can be charged by connecting the supplied USB charging cable to the charging point (D).

The dark grey underside of the arm module has an ON/OFF switch (B). The position can be changed using a pen, which should be done once at first use to switch on the arm module. The green LEDs indicate that the module is switched on and the



heart rate and movement registration will begin automatically. Registration can be stopped by reconnecting the arm module to the charger. The system will begin registering again when you remove the arm module from the charger. This is how you start and stop the system from now on. During the day, when the system is not in use, leave the arm module switched on and connected to the charging unit.

The arm module can only charge if the ON/OFF switch is on. The arm module will not charge if the ON/OFF switch is off. If the arm module is neither in use nor connected to the charger, during transport for example, the ON/OFF switch on the arm module can be switched off altogether to prevent the battery from depletion.



PLEASE NOTE: The arm module cannot charge when it is switched OFF. Always leave the arm module switched ON when it is connected to the charger.

The white upper side of the arm module contains one indicator light (C), used for several signals. Read about these signals in Chapter 6.

4.2 Basisstation

The square white box is the base station that displays both light and sound signals. The base station can be placed anywhere in the home near a power outlet. However, ensure that you can hear the sound signal from the base station and that it is loud enough to wake you up at night. This distance between the arm module and base station is limited to 15 meters. The device will notify the user when arm module and base station are too far apart and loose connection (Chapter 6).



- A** = Volume controls, 1 increases the volume, 2 decreases the volume.
- B** = Loudspeaker
- C** = Power supply
- D** = LED indicator lights
- E** = Data connection (optional)

5 How to prepare your NightWatch for first use

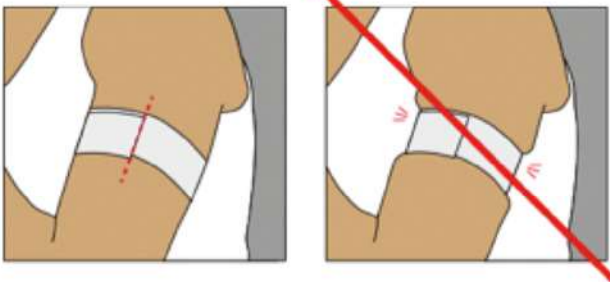
5.1 Step 1: Adjust the armband

You will need:

- Elastic strap
- 2 clips
- Arm module
- Ballpoint pen/pencil
- Sharp (fabric) scissors

The elastic strap should be adjusted to the size of the upper arm of the wearer. The armband must not be too tight, but should fit snugly against the skin.

Use the elastic strap to measure the circumference of the wearer's arm above the biceps in a bent position. Do not stretch the strap. Mark the elastic strap at the overlap.



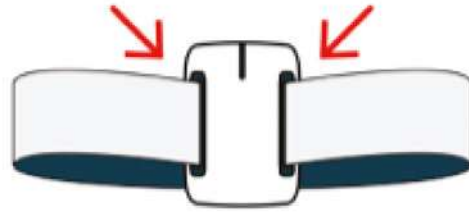
Cut the elastic strap at the marked point.



Attach the two clips to the strap as shown below. Tip: push one corner of the elastic strap through the clip and then pull the entire strap through the clip until it sticks out at a length of one centimetre.



Attach the clips to the slots in the arm module in a downward motion with the ends of the strap protruding from the lower end of the arm module.



Front side of the arm module

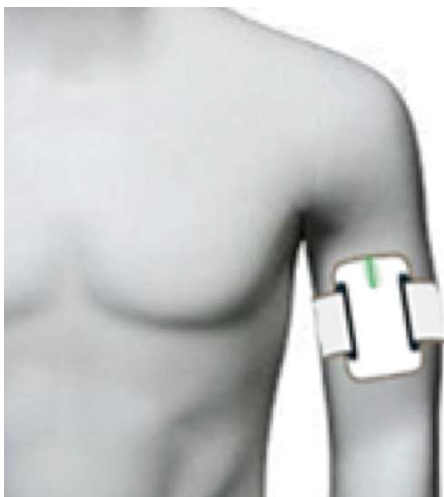


Back side of the arm module

Place the arm module around the wearer's upper arm, while making sure the arm module backside is facing the skin, a little above the thickest part of the biceps but below the shoulder. This ensures the wearer is unlikely to lie on the arm module when turning onto his/her side.



PLEASE NOTE: In order to achieve as accurate detection as possible of any epileptic seizures, the arm module should be worn on the upper arm (biceps) and directly on the skin. If the wearer is wearing a pyjama top or other long-sleeved garment, please ensure the sleeve is wide enough to wear the arm module underneath.



Check the tightness of the band. The elastic strap will probably be a little too loose. The correct fit allows one finger to just about fit under the strap.

If the elastic strap feels too loose:

Remove the armband, pull the elastic strap further through the clips. Try again.

If the elastic strap feels too tight:

1. Using a fingernail, press the clips from below to remove them from the arm module.
2. Adjust the clips to make the elastic strap longer.
3. Place the clips in the slots again.

Try again.

Adjust the strap until it is both comfortable for the wearer and fits snugly around the arm. Finally, cut the excess ends off the strap so that they do not cover the green heart rate sensors.

There is no cause for concern if the arm module leaves an imprint on the arm after a night's sleep, as long as this imprint fades by itself over time.



PLEASE NOTE: Please ensure the armband has been adjusted to the correct size for the patient before use, so that it is not too tight or too loose.

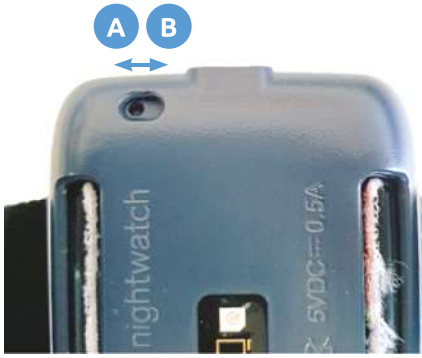


PLEASE NOTE: The elastic strap may protrude slightly on both sides of the dark underside. However, ensure that the ends do not cover the green light-up sensors. The band can be made tighter by pulling the ends. The band is very soft and the wearer will not experience discomfort from the protruding ends.

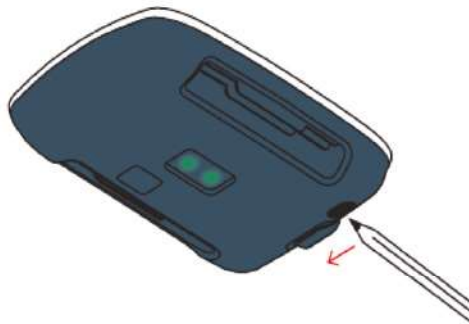
5.2 Step 2: First activation and charging the arm module

In principle, you only switch the arm module on once, after which the arm module is always on and can be charged. From now on, you will start and stop the system by connecting and disconnecting the arm module and the charger.

- Take a ballpoint pen/pencil
- The dark grey underside of the arm module houses an ON/OFF switch. Use the pencil to move this switch to the middle of the module to activate the arm module. This only needs to be done once. After this, you (de)activate the system via the charging cable. If you wish to turn the arm module off to prevent the battery from running out, use the ON/OFF switch to turn off the arm module. PLEASE NOTE: the arm module will not charge if it is turned off.
- As soon as you have activated the arm module via the switch (ON), 2 green LEDs will light up brightly on the dark underside. These are the LEDs that track the heart rate.
- Connect the arm module to the charger and the power supply. The arm module will now charge.
- Then connect the base station to the power supply and wait until the arm module is charged.



A = OFF **B** = ON



Arm module battery life:

- Battery charging time: approximately 2 hours.
- A fully charged battery will last at least 12 hours.

Charging:

The arm module must be fully charged before each use. When you connect the arm module to the charger (which in turn is connected to the power supply), the green LEDs on the underside will turn off and a green LED on the white top part will start to blink. This indicates that the arm module is charging. As soon as the arm module is fully charged, the green LED on the upper side will be lit continuously. The LED on the arm module emits dim rather than bright light to minimise disturbance during the night.

! PLEASE NOTE: Replace the product if a fully charged battery is empty after a single night or after one cycle of use.

! PLEASE NOTE: Always keep the arm module connected to the charger until use as it starts working automatically as soon as it is removed from the charger. It is not possible to 'overcharge' the arm module; there is no harm in leaving the arm module connected to the charger.

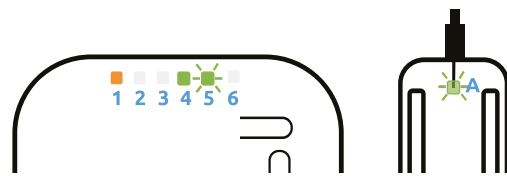
! PLEASE NOTE: The arm module must only be charged using the original charger and cable. Using a different charger or cable could damage the arm module and/or affect its performance.

5.3 Step 3: Using the base station

Ensure that the (activated) arm module is connected to the charger. Position the base station where you want to receive the alert and ensure it is connected to a power supply.

The distance between the base station and arm module is limited and depends on the structure of the building in which the NightWatch is used. It will usually be 15 metres. The base station will trigger an alert if the arm module is or goes out of range. If that happens, move the base station closer to the arm module. In case this is not possible, see section 7.5 for possibilities to forward the alerts.

The volume of the base station alerts can be adjusted as required using the volume controls (see section 7.3)



After approximately 30 seconds, green LED 4 on the base station will be lit continuously ('arm module connected to charger') and green LED 5 will start to blink ('arm module battery is charging'). Once the arm module is fully charged,

green LED 5 will also be lit continuously.

Your system is now ready to use.



PLEASE NOTE: The base station should only be connected to a power supply using the adapter supplied. Using a different adapter could damage the base station and/or affect its performance.

5.4 Daily use

- Roll up the wearer's pyjama sleeves, if necessary.
- Disconnect the arm module from the charger. Both green LEDs on the darker underside of the arm module will immediately light up brightly.
- Straight after disconnecting from the charger, the base station will emit a warning signal indicating that no heart rate has been detected yet. This signal also confirms that the arm module is connected to the base station and that the alerts are audible.
- The red LED on the base station and the armband will blink red to indicate that no heart rate has been detected yet.
- Place the arm module around the upper arm, between the shoulder and the thickest part of the biceps, with the arm module facing forward on the upper arm so that the wearer will not lie on it when lying on his/her side.
- The base station will now blink green when the heart rate is detected.
- Move the pyjama sleeve back down the arm if necessary.
- The wearer will now go to sleep. Once the wearer is lying down quietly and the arm module has detected very little or no movement at all for two minutes, the more sensitive movement and heart rate algorithms become active. When this occurs, the blinking green LED for the heart rate changes to a continuous green LED.
- If the wearer rises or gets out of bed, the more

sensitive movement and heart rate algorithms will be temporarily switched off, until the wearer is lying down quietly.

See chapter 7 for all signals and alerts from the device and what to do in case of issues.



PLEASE NOTE: Check that both green LEDs are equally bright as soon as the arm module, switched on, is removed from the charger. After a while, one of the green LEDs may switch itself off to optimise the heart rate tracking, this is normal.



PLEASE NOTE: As soon as the arm module is disconnected from the charger, the base station will emit a beep every two seconds until the heart rate has been detected. Once the heart rate has been detected, LED 5 (green) will start to blink or light up continuously. Check this regularly.



PLEASE NOTE: Please ensure the base station is never covered during use.



PLEASE NOTE: Please ensure that the base station is switched on before the arm module is removed from the charger.

5.5 Maintenance

The NightWatch does not require periodic maintenance. For hygiene reasons, however, the arm module should be cleaned regularly with a damp cloth and a disinfectant.



PLEASE NOTE: Clean the arm module regularly to reduce the risk of the wearer developing skin irritation.



PLEASE NOTE: Do not use excessive water to clean the arm module and base station, please use a damp wipe. The elastic band is (machine) washable at 90 degrees.

5.6 Reuse

Use of the NightWatch is not customised to any one person. If the NightWatch is to be used by a different person, the arm module should be cleaned with a damp cloth and disinfectant. A new piece of elastic strap should be used to fit the arm module to the new user, following section 6.1.



PLEASE NOTE: If the arm module is to be worn by a different user, it must be cleaned with a damp cloth and a disinfectant and the elastic strap must be replaced.

5.7 Transport or storage

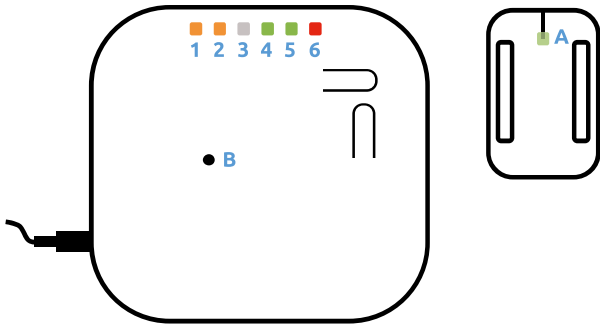
If you want to transport the NightWatch to a different address or store it for a long period of time, you should switch off the arm module. If you do not do this, the arm module battery will run down, which could damage the battery. Switch the arm module off using the ON/OFF switch on the dark underside, which you also used to switch it on. The green LEDs on the underside of the arm module will turn off. The arm module is now switched off and can be transported without the battery running down.



PLEASE NOTE: The arm module should be switched off during transport or long storage. If you wish to use the system again, you can use the ON/OFF switch to turn the arm module back on and charge it.

6 Signals from the arm module and the base station

Both the arm module and the base station display signals about the status of the system. The arm module does this using a LED on the (white) top. The base station displays signals using the LEDs on the top and also emits sound signals. The signals used are shown below.



- LED 1 (orange):** Power supply indicator
- LED 2 (orange):** Connected to a server (optional)
- LED 3:** Not used
- LED 4 (green):** Arm module connected to the charger
- LED 5 (green):** All OK, detection active / arm module charge indicator
- LED 6 (red):** (Technical) Alarm

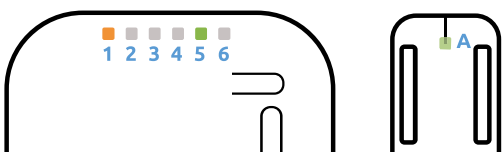
A: Arm module indicator light

B: Loudspeaker

The brightness of the indicator on the arm module (A) is set for use in a darkened room and may consequently be more difficult to see in daylight / a brightly lit area.

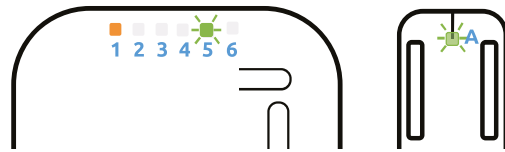
6.1 Arm module and base station display the same signal

LED 5 and A are lit continuously green: All OK - wearer is at rest



The NightWatch can detect seizures at its most sensitive setting. The heart rate is tracked reliably, the connection between arm module and base station is in order, the battery is in order, the wearer is in a horizontal position (is lying in bed), the wearer of the arm module has been at rest for at least 2 minutes.

LED 5 and A are blinking green: All OK - wearer is not yet at rest



The heart rate is tracked reliably, the connection between arm module and base station is in order, the battery is in order, but the wearer is not yet at rest in bed or has recently sat up. Once the arm module tracks that the wearer has been lying at rest for two minutes, the NightWatch will switch to its most sensitive setting (LED 5 continuously green).

Ringling sound and LED 6 and A are blinking red: Alert



This is a NightWatch alert

Sound	LED 6	Alert
Ringing	Fast blinking	Epilepsy alert
Repeated 1x beep/ 2 sec	Slow 1x blinking	Not able to track heart rate
Repeated 2x beep/ 2 sec	Slow 2x blinking	Out of range
Repeated 4x beep/ 2 sec	Slow 4x blinking	Low battery

Epilepsy alert!

A possible epileptic seizure has been detected. Check on the person wearing the arm module.

No/poor heart rate signal

You will hear this alert as soon as you remove the arm module from the charger. This alert will stop as soon as the NightWatch tracks a heart rate after the armband has been put on the wearer. Lie down quietly for the heart rate to be tracked faster. This alert will also be triggered if the arm module has been unable to track a heart rate for at least 2 minutes.

There are several possible causes of a temporary or permanent failure to read a reliable heart rate:

- The heart rate sensor is not correctly positioned on the skin. Make sure that the green LEDs on the underside of the arm module make direct contact with the skin.
- The armband may be too loose, have slid off, or been taken off. In that case, tighten the armband a little.
- The wearer may be lying on the arm module, which would make registration difficult. Change the position of the armband so that the wearer will not lie on top of it so easily.



PLEASE NOTE: This product tracks heartrate using photoplethysmography (PPG) and uses this information to detect possible seizures. The effectivity of reading heartrate with PPG may vary from person to person. The device will notify the carer with sound and light signals in case the product cannot track a reliable heartrate for seizures detection.

Out of range

There is no connection between the arm module and the base station. Several causes are possible:

- The arm module is switched off. Turn on the arm module using a pen to move the ON/OFF switch on the dark underside. The green LEDs on the underside of the arm module should light up when it is on and has been disconnected from the charger.
- The arm module and the base station are too far apart. Place the base station and armband closer together.
- It may also be that only the arm module sends the light signal described above. In that case, check whether there is a power supply to the base station.

Low battery

This alert means that the arm module battery is nearly empty. You will no longer be able to use the NightWatch. Connect the arm module to the charger.

If this alert appears repeatedly despite correct and sufficient charging, please contact your supplier or manufacturer. See section 9 for contact details.

6.2 Signals while the arm module is charging

LED 4 lit continuously, LED 5 and A are blinking: Arm module is charging



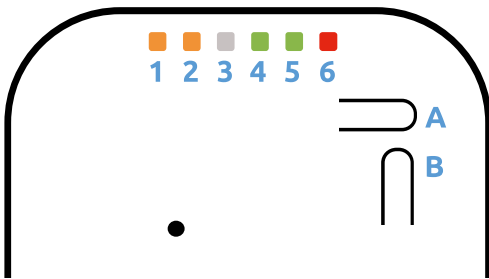
The arm module is still charging. This will take up to 2 hours.

LED 5 and A are lit continuously: Arm module is charged.



The arm module is sufficiently charged to use for a whole night.

6.3 Regulating the sound on the base station



Touch buttons A and B allow you to regulate the volume of the alerts emitted by the base station or to mute the sound of an alert.

- Adjust the volume
 - Both buttons can be used to adjust the alert volume. Press down button 'A' or 'B'. You will hear the epilepsy alert volume increase (A) or decrease (B). Release the button at the desired volume. The volume is now set and will also be saved when you disconnect the base station from the power supply. You can adjust the volume as you wish.
- Muting the sound of an alert
 - One of the buttons (it doesn't matter which one) can be pressed if you have heard an alert and wish to turn off the sound. This only mutes the active alert. Any subsequent new alert will be audible again.



PLEASE NOTE: Ensure that the base station alert signal is set to an audible sound level

during the entire cycle of use.



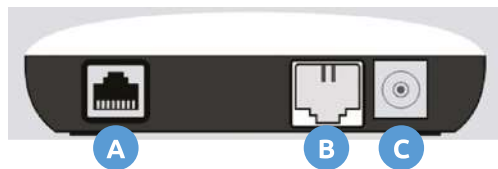
PLEASE NOTE: Very loud sounds can trigger epileptic seizures in some people. Make sure that the signals can be heard clearly by the person who needs to respond to them but are not too loud for the person wearing the arm module.

6.4 Testing the NightWatch

The base station will emit 1 short beep every two seconds as soon as you remove the activated arm module from the charger. This will stop as soon as the NightWatch can track a reliable heart rate. This confirms that the NightWatch is working correctly and that the volume has been set as required.

If you want to check the volume of the alert that the base station would emit in the event of an epileptic seizure, press either of the two volume buttons.

6.5 Connection to an external call system (optional)



- A** = RJ-45 port
- B** = RJ-11 port
- C** = Power supply

The NightWatch can be linked to other devices that are intended to forward alerts to caregivers who are at a location that is out of maximum wireless reach between the base station and arm module. Such link can be set-up via the RJ-11 (relay) or a RJ-45 (API) connection to the base station.

Contact your supplier to help to configure your NightWatch appropriately and help you create the correct link.



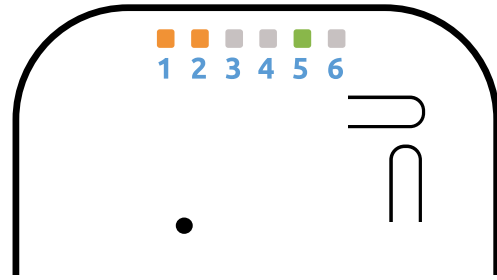
PLEASE NOTE: In case NightWatch is linked to a device that forwards alert, be sure to regularly check if the link is working by following the instructions to manually triggering an NightWatch alert and subsequently verify if the alert is correctly transmitted and handled by the linked system.

You can test whether an alert is transmitted correctly by stimulating an epileptic seizure alarm. To do this:

- Disconnect the arm module from the charger.
- The base station will emit an alert that a reliable heart rate has not yet been detected. However, this start alert will not be transmitted via the link as a technical alert.
- Hold the arm module sensor still against your skin at a spot where the heart rate can be tracked easily and clearly. Such as your cheek, for example.
- Wait until the base stations stops beeping and LED 5 is blinking green. This indicates that the arm module has been able to track a reliable heart rate.
- Now take the arm module off your skin and shake it quickly, with short, sharp movements for at least 10-20 seconds (at least 6 movements per second). You will hear the seizure alarm go off².
- Check whether this is correctly transmitted to and processed by the call system.

6.6 Reading out the NightWatch data

The NightWatch allows you to export the data so that you can review specific values tracked by the NightWatch at a later time. This requires the base station to be connected to the internet, via an Ethernet connection, during use. The NightWatch then automatically searches for a connection to an online NightWatch server. If this is successful, the orange LED 2 on the base station will light up, indicating that a connection has been made.



Tracked data will then be sent (anonymously) from the NightWatch to the NightWatch server for as long as the internet connection remains active. Please contact LivAssured or visit www.nightwatchepilepsy.com/portal for more information about this option and how to access and review the uploaded data.



PLEASE NOTE: The tracked data read out are indicative only and not intended for medical diagnostic or treatment purposes.

2. This test requires a relatively high amount of movement to set the alarm off because the NightWatch is not yet at its most sensitive setting (LED 5 is blinking green). If the wearer is lying at rest in bed, its most sensitive setting will be activated (LED 5 continuously green). In this mode, much less movement will be needed to trigger an alarm.

7 Technical specifications

7.1 Specifications NightWatch

Operating mode	[Arm module]: Body worn
Weight	[Arm module]: 35g [Base station]: 90g
Dimensions (L x W x H)	[Arm module]: 7 mm x 52 mm x 14 mm [Base station]: 100 mm x 100 mm x 28 mm
Supply voltage	[Arm module]: 100V – 240V AC, 50 Hz – 60 Hz [Base station]: 100V – 240V AC, 50 Hz – 60 Hz
Current consumption	[Arm module]: 0.1A (RMS) max. [Base station]: 0.2A (RMS) max.
Casing protection	IP 20
Applied part classification	BF
Applied part	Arm module
Admissible ambient temperature during operation	15 °C - 35 °C
Admissible ambient temperature during storage/transport	-20 °C – 45 °C / -20 °C – 45 °C
Admissible relative humidity during operation	10 - 85 %RH
Admissible relative humidity during storage/transport	10 - 90 %RH / 10 - 90 %RH
Battery	[Arm module] Built-in Lithium-ion battery 3.7V, 500mAh, not replaceable
Maximum storage time	2 years, if the arm module is switched off and the battery is charged at least 80%.
Arm module	FCC ID: Y82-SC14S / IC: 9576A-SC14S



Back of arm module: with CE and WEEE symbol

8 Contact information

Manufacturer

LivAssured

Venusstraat 17

4105 JH Culemborg

Netherlands

Email: info@nightwatch.nl

Website: www.nightwatchepilepsy.com

Maintenance and service

LivAssured

Schipholweg 103

2316 XC Leiden

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Email: info@nightwatch.nl

Website: www.nightwatchepilepsy.com

9 Service life and guarantee

The NightWatch has a 2-year guarantee. In the event the NightWatch is not working or seems to be working incorrectly, please contact LivAssured via email: info@nightwatch.nl

The expected service life of the NightWatch in case of normal use is a minimum of 5 years.

10 Disposal

At the end of its useful life, NightWatch (with its battery) must be disposed of in accordance with local law and the local code concerning electrical and electronic equipment. Do not discard in a standard trash bin.