

NAO BlueSpot V3 series – Quick Start guide



Bluetooth 4.0 Low Energy Beacon with iBeacon technology

- ① Before activating and installing a NAO® BlueSpot, please read the following instructions carefully.
- ① Texts, images, and specifications contained in this document are the exclusive property of Pole Star SA. They are provided as is, for informational use only, and are subject to change at any time without notice.

EMC & Safety

Hereby, Pole Star SA relates that this product, NAO® BlueSpot V3, is in accordance with the essential requirements and relevant provisions of the EU Directive R&TTE 1999/5/CE.

The Declaration of Conformity can be downloaded on <http://www.polestar.eu> [RD 1].

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. More information available on <http://www.polestar.eu> [RD 2].

Safety instructions

- ☑ Do not immerse or soak the device in any liquid.
- ☑ Do not touch nor disassemble / reassemble any internal parts without authorization.
- ☑ Never attempt to short-circuit, nor to disassemble / reassemble the batteries.
- ☑ Do not install the device if its physical integrity is compromised (visible cracks, moisture, oxidation).
- ☑ Always fasten the device. Follow the application note [AN 001] and the guide [RD 3] instructions carefully.
- ☑ Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Warranty – Liability

NAO® BlueSpot V3 come with a 1-year replacement guarantee against hardware/software failure. Product warranty is void in case of an intentional, accidental or negligent physical damage, in case a bad assembly, or running out of the conditions specified in this manual or in related documentation. Warranty does not cover damages caused by force majeure, nor the battery replacement if resulting from non-standard settings. Pole Star SA will not be held responsible for any damage on the exploitation site that could occur during the installation.

Description

NAO® BlueSpot is a Bluetooth 4.0 Low Energy radio device that enable accurate indoor location, proximity detection and interactions when used with Pole Star's NAO platform and SDKs.



Startup

- 1) Insert a battery in a slot (7) or (8) with respect to the polarity.
 - ① The polarity, i.e. “+” and “-” are engraved in the bottom part of the body casing (4).
 - ☑ Once the first battery is inserted, the LED (6) should light and remain “on” during few seconds.
- 2) Quickly insert the second battery in the remaining slot.
 - ☑ Once detected, the light stops, then **quickly blink twice** to confirm the **correct device activation**.
 - ⚡ **Do not install the device if the activation sequence failed.** Refer the troubleshooting section.
 - ① Please refer to the application note [AN 002] for further details on the device activation sequence.
 - ① The unit operate normally with a shorter lifetime when inserting one unique battery.

Configuration

NAO® BlueSpot comes factory configured so there is no additional configuration needed.

However, some applications could require the device to be reconfigured or upgraded. For these purposes, the unit features a secured remote access. Please refer to the application note [AN 003] for further details.

Installation on site

Before installing, please make sure following all instructions described in the installation guide [RD 3].

- 1) Identify both candidate surface(s) and a fastening method that meet granted authorizations.
 - ① The unit can be sticked indoors using the provided adhesive tape. More details can be found on [AN 001].
 - ⚡ Always prefer screwing or strapping [AN 001] over sticking/gluing for a safer and durable installation.
 - ⚡ Do not fasten the unit outdoors nor in humid or non-weather protected places using the adhesive tape.

- 2) Ensure the selected location and the chosen fastening method to meet all install requirements.
 - ☑ Choose a location that keep NAO® BlueSpot out of direct reach (2 m to 6 m height).
 - ☑ Ensure the contact surface to be flat and slick, thus surrounding and covering the cap/adhesive surface.
 - ⚡ **Do not install if the whole install requirements cannot be fully observed.** Contact support if necessary.
- 3) Prepare the support, follow instructions found on [AN 001], then fasten the cap (1) at its final location.
 - ☑ Meticulously clean and degrease the surface before sticking or gluing the unit.
- 4) Simply clip the body (4) and the cap (1) together. A short “click” confirms the correct closing.
 - ☑ Considering a vertical mount (ex: wall), the cap (1) marks (CE/FCC) are oriented toward the bottom. After assembly, the main body (4) logo appear on the top-left and the opening slot (5) on the right side.
- 5) Gently remove the protection film on the main body front side (4).
- 6) For outdoor use, install the optional silicone housing following instructions found on [AN 004].

Operation and maintenance

NAO® BlueSpot requires no particular maintenance apart from the periodic battery replacement.

- ① Preferably replace the adhesive tape when changing the batteries. Order the related kit [RD 5].
- ① 5 years continuous operation should be observed under default configuration and normal conditions.

Replacing the batteries

- 1) Exert a leverage effect introducing a large flat screw driver in the slot (5) to separate both shells (4) and (1).
- 2) Remove the two batteries. Wait few seconds before inserting specification-wise replacement batteries.
- 3) Follow instructions found on the startup and installation sections of the document.

Disposal

Do not dispose the unit, its batteries, or any damaged part as unsorted waste.

Both batteries and device should be returned to a local recycling service or to your distributor for recycling.

Technical Specifications

Please refer to the datasheet available at [RD 4] for additional details.

Dimensions	L=60mm , w=45 mm x h=20 mm. Screws (not supplied): Ø3 mm [max]
Weight	25 g / 60 g excluding / including batteries
Batteries	2x AA Size. Primary type, Li-SOCl ₂ , 3.6 V, 2600 mAh (Ex: SAFT LS14500).
Protection rating	IP54. IP65 using the optional outdoor kit accessory [RD 5].
Temperatures	-20°C to + 60°C (-4°F to 140°F)

Troubleshooting

For any unresolved questions or problems, please contact the Pole Star assistance at support@polestar.eu.

Problem	Possible cause	Solutions
The indicator light does not come on startup	Battery are not correctly inserted.	Reinsert the batteries.
	Battery polarity is wrong.	
The indicator light does not stop nor confirm the correct activation	Batteries are too weak.	Replace the batteries.
	One battery is weak.	
	There is a hardware failure	Do not Install. Refine diagnostic with [AN 002]. Contact Assistance.
There is a software failure		

Accessory parts

Accessory parts listing can be found in [RD 5].

Related documentation

- RD 1 CE Certificate (<http://www.polestar.eu/repository/files/pdf/1268-bluespot-v3-ce-doc-en.pdf>)
- RD 2 FCC addendum - (<http://www.polestar.eu/repository/files/pdf/1372-v3-fcc-addendum-en.pdf>)
- RD 3 Installation guide – Contact Pole Star (info@polestar.eu)
- RD 4 Datasheet - <http://www.polestar.eu/repository/files/pdf/1269-datasheet-v3-en.pdf>
- RD 5 Accessory parts Listing – Contact Pole Star (info@polestar.eu)
- AN 001 Fastening NAO® BlueSpot V3 – Contact Pole Star (info@polestar.eu)
- AN 002 <http://www.polestar.eu/repository/files/pdf/1373-v3-an002-product-activation-en.pdf>
- AN 003 Configuring or upgrading NAO® BlueSpot V3 – Contact Pole Star (info@polestar.eu)
- AN 004 Install the silicone housing for outdoor use– Contact Pole Star (info@polestar.eu).

Brand : NAO®
Product : BlueSpot V3

