

PRODUCT

NAO[®] BLUESPOT V4 RUGGED

DATASHEET

Bluetooth[®] 5.0 Low Energy Beacon with iBeacon technology¹.

Most durable beacon with protection against ingress (IP67), impact (IK07), and polycarbonate casing.

The NAO[®] BlueSpot V4 Rugged has been specifically designed to sustain tough environments.

Through the years of field experience, we designed a **reliable industrial solution**, allowing for best performance on iOS[®] and Android[®]. More than **350** clients and partners worldwide chose Pole Star beacons, representing more than **130,000** of active beacons.

The NAO[®] BlueSpot V4 Rugged is a key component to the NAO[®] Suite to cover all your use cases, from mobile navigation to asset tracking.



¹ iBeacon technology creates a small area of detection where customized notifications can be sent to iBeacon-enabled apps on iPhone, iPad, or iPod touch devices that support Bluetooth 4.0 technology. See <https://developer.apple.com/ibeacon/>

Note: pictures are not contractual. Pole Star reserves the right to modify the product without notice

FEATURES



5 to 10 years of battery life depending on configuration with 1 or 2 battery cells, with **default** value of advertising frequency and advertising power, and running in **wide range of temperature and humidity conditions**². Working with the best battery cells of the market : SAFT LS14500.

Batteries are **replaceable**.



Durable. Meets **IP67** requirements: dustproof, resists to water immersion at 1m depth during 30min. Meets **IK07** requirements : **shockproof** thanks to Polycarbonate thick shell. Assembly of body and cover using torx screws against **vandalism**.



Wide range of mounting options using zip ties up to 11mm wide (lateral and longitudinal options), different type of screws, adhesive or glue.



Plug & Play. Beacons are configured at production so that you can install and activate them right away.



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Radio **Bluetooth® 5**.



Uses Apple® **iBeacon**, or alternative formats such as **Eddystone** or proprietary («**custom advertising**»).



Secure. Integrated secure mode. Relies on the most recent cybersecurity guidelines to ensure continuity of service.



Connected. Life status visible on site with NAO® Logger mobile application, or remotely with your NAO® Cloud dashboard relying on the NAO® SDK or by integrating connected infrastructures.

Evolutive. “Over The Air” updates of firmware parameters or for complete upgrade.



Worldwide market. Wherever your project is, the NAO® BlueSpot V4 will be with you. Certified for EU, USA/Canada, Australia/New Zealand, and UK.



FABRIQUÉ EN FRANCE

Quality. Designed and assembled in France, all our products are tested before delivery.

Warranty. All our products have a 1-year warranty, with optional extension.

² Running with one or two 2500 mAh batteries, 24/7/365, 20°C, with the standard configuration profile (850ms interval advertising, full RF power).

SPECIFICATIONS

Dimensions & Weight	Dimensions	116 x 80 x 34 mm
	Weight	107g without batteries, 140 g with two batteries.
Casing	Material	Polycarbonate
	Color	Papyrus White (RAL9018)
	Mounting	Zip ties / Screws: x4, Ø3 mm, countersunk, cross type / Adhesive tape / Glue
Power supply	Format	AA/LR6, x1 or x2 depending on configuration, replaceable
	Technology	Lithium (Li-SoCl ₂), not rechargeable
	Voltage & Capacity	3.6V, 2500 mAh
Battery life	Standard NAO® profile (iBeacon)	5+ years (850ms interval, 0 dBm, 20°C)
		10+ years (850ms interval, 0 dBm, 20°C)
Advertising	Advertising	Apple® iBeacon mode (default), Google® Eddystone UID, Custom
	Configurable	Yes
	Shuffled IDs and MAC addr.	For encrypted advertising.
	Additional data	Health monitoring data (proprietary) including remaining lifetime and system flags.
RF performance	Range (typical)	> 100m outdoor, free space / 25m indoor, variable
	Transmitted RF power	-27 dBm to +8 dBm max
	RSSI readings	-54 measured at 1 meter ³
Peripherals	LED	Missing or failing battery detection. Hardware and software health test
	Temperature sensor	+/- 5°C
Environmental	Temperature	-40°C / + 82°C ⁴
	Humidity	0 à 99 %
Certifications	Protection	IP67 & IK07
	RoHS/REACH	2017/2102/CE (2017-11)
		2018/35/CE (2018-01)
	EU	EN301489-1/-17, EN300328, EN62311, EN60950-1
	USA/CA	FCC Part 15, Subpart C (FCC ID: QOQBLE112)
		FCC Part 15, Subpart B, Class B
	Australia/NZ	AS / NZS 4268 : 2017
UK	SI 2017/1206 Schedule 3 Module B	

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³ Measured as specified and described in the Apple iBeacon Proximity Beacon Specification – Release R1 (2015/09/04).

⁴ Expected battery life should be drastically reduced when continuously operating at extreme temperatures.