



Blooloc W5 Bluetooth Beacon Tracker User Manual

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yooBee Wrist Tracker R



Blooloc NV

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Description

yooBee Wrist Tracker R is a portable tag with 3-axis accelerometer sensor ①. It can advertise iBeacon, Eddystone and Sensor datas.

The yooBee Wrist Tracker R has a ** wearable bracelet shape, IP68 waterproof construction, precise hardware, powerful firmware and buttons**.

All the parameters of yooBee Wrist Tracker R can be modified and all the sensor datas can be checked.

① 3-axis accelerometer Sensor: STMicroelectronics® LIS3DH

Features

Firmware and chipset

- Programmed Blooloc NV standard MkBeaconX firmware;
- Ultra-low power consumption chipset NORDIC® nRF52 series with 32-bit ARM® Cortex-M4 CPU.

Compatibility

- Compatible with Apple iBeacon and Google Eddystone;
- Compatible with standard Eddystone Configuration GATT Service;
- Compatible with all Bluetooth® Low Energy devices.

High-quality Battery and long lifetime

- High-quality rechargeable lithium battery (180mAh 3.7V);
- Easily get real-time battery notifications.

Configurable SLOTS and parameters

- Up to 6 configurable SLOTS;
- Each SLOT can be set to iBeacon UID URL TLM
- Device Info and 3-axis Sensor data; Device Name, Password, Connection Mode, Advertising Interval, Tx Power and 3-axis Sensor Parameters all are configurable;

Flexible sensor function

- 3-axis accelerometer has dynamically user-selectable full scales of $\pm 2g/\pm 4g/\pm 8g/\pm 16g$ and the parameter is configurable
- 3-axis accelerometer is capable of measuring accelerations with output data rates from 1 Hz to 100 Hz and the parameter is configurable
- Users can get the raw data of the 3-axis sensor sampling data from the device in real-time

Trigger function

- Support button trigger and motion trigger;
- Control the device to start advertising all the time, stop advertising, or advertise for a while.

Transmission Power Levels

- 9 adjustable grades;
- Transmission power range: -40dBm to +4dBm.

Long Range

- The max. Range 120 meters in the open space 0.55dBm TX power ;
- The range depends on the environment where the W5 series Beacon is placed.

Security

- Configurable password (1-16 characters);
- With or without password (Lock/Unlock parameters);
- AES-128-ECB. encrypt.

Connection Mode

- Advertising mode, non-connectable;
- Configuration mode, connectable.

Custom made mounting

- Color customizable;
- Easy to print a customization logo/branding on the case.
- Provided with your own configuration
- Customizable software, hardware, and structure.

OTA and DFU

- Supported upgrade via Over-The-Air;
- Nordic ® official Device Firmware Upgrade(DFU);
- Reserved J-Link port on the board for programming.

Physical Characteristics

Item	Value	Remarks
Case Color	Black	Other colors can be customized
Main Material	TPUH3C	—
Battery Model	Lithium polymer battery	Lithium battery. 180mAH 3.7V
Battery Lifetime	About 5 months	At default settings® and without self-discharge factor
Operation Voltage	3.3V	DC
Waterproof Level	P68	—
Static Current	14.7 uA	The device is powered off
Average Current	50 uA	At default settings®
Transmission Range	>120m	0.55dBm TX power. in the open space
Antenna	50ohm	Ceramic Antenna
Size	Body size: 47.84 mm5.7×11.7 Wearable range: 13cm-25an	Refer to mechanical draws for details
Net Weight	32g	With battery
Operating Temperature	-20 — 460°C	—
Storage Temperature	20 — +30°C	—

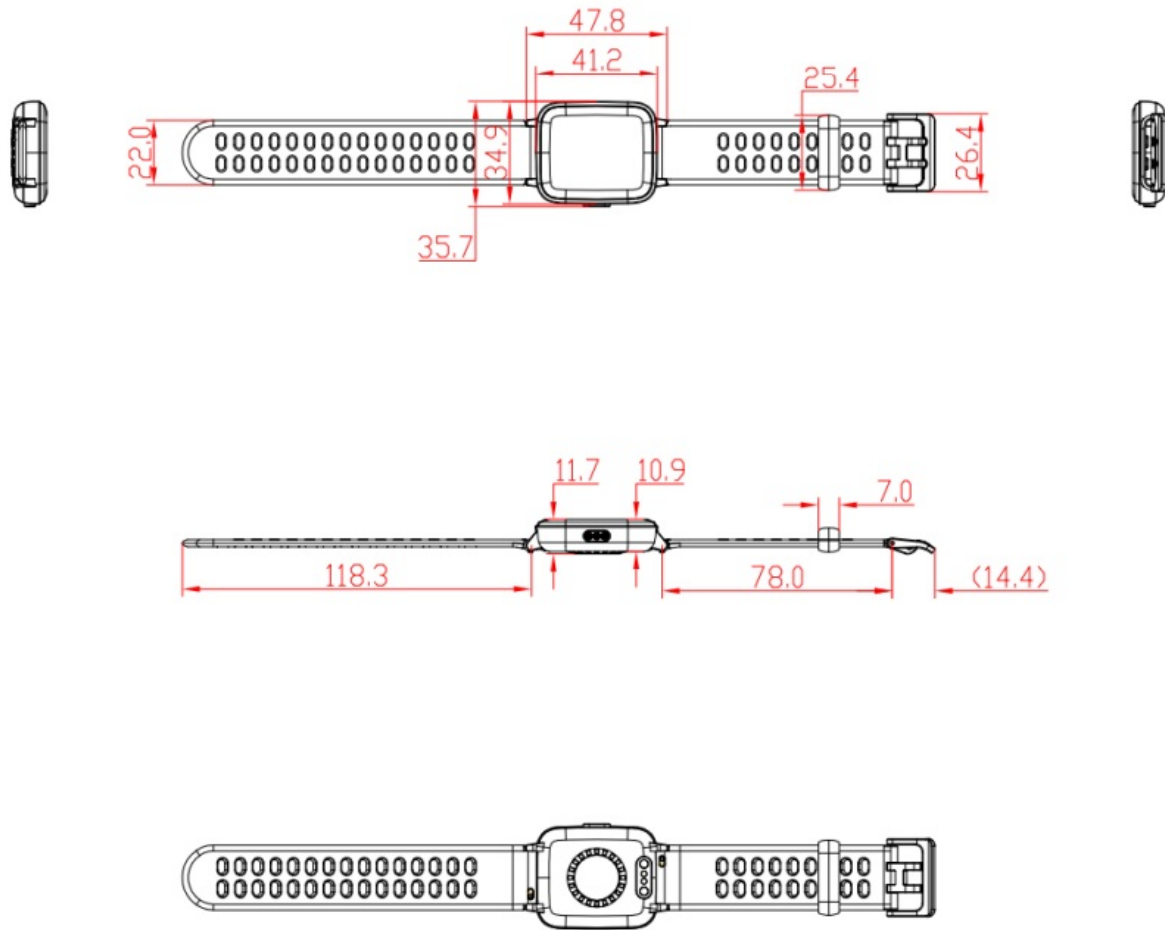
② ③ Default setting: 1 Active SLOT(Device Info) 0dBm TX power and 1000ms Advertising Interval.

Configurable Parameters

Item	Value	Default Setting	Range and Remarks
iBeacon	WO	–	Mbytes
	Major		0-65535
	Minor		0-65535
LID	Namespace		10bytes
	Insurance D		6bytes
URL	Blooded Scheme Pr at	–	4types: http://www. https://www. http:// https:// /
	Encoded URL		2-17 bytes
TIM	–		TLM slums only we in the broadcast.
Device Name	–	Beatrix Pro	Lb to 20 characters
Advertising Ir4erval	–	1000ms	100-10000ms. Unit:100ms
Tx Power	–	Adam	-40dBm to 4dBm, 9 actionable grades
Password	–	tibko4321	1-16 characters or IC password
Connection Mode	–	Connectable	Commendable/Unconnectable
Trigger	1Button double tap	–	Maws advertise
			for a Stile (1-65535s)
			Sop advertising bra while (1 -ftSgq5s) estate advertising
	2. Button triple tap		Always advertise
			Start advertising for a while (1-65535s)
			Sop advertising for a while (1-ftS5q5s)
	3. Device moves		Always advertise
			Start advertising after a static period tine (1-65535s)
			Sop advertising after a static period time (1-65535s)
3-axis acceleromster S ensor	Full Scales	ag	±2g ±4g ±8g ±16g
	Output data rate	10Th	1 Hz 10 Hz 25 Hz 50 Hz 100 Hz
	Sensitivity	7	7 to 255

Mechanical Draws

All dimensions in mm.



FCC STATEMENT

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. (2) This device must accept any interference received, including interference that may cause undesired operation.
2. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: Reorient or relocate the receiving antenna. Increase the separation between the equipment and receiver. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. Consult the dealer or an experienced radio/TV technician for help.


FCC Radiation Exposure Statement This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 5mm between the radiator & your body

Contact Information

Revision History

Revision	Description	Approved	Date
V1.0	Initial Release	Oven	2020.06.16

Documents / Resources

<div><div>yoobe Wrist Tracker R</div><div></div><div>W5, Bluetooth W5</div></div>	<div><div>Blooloc W5 Bluetooth Beacon Tracker [pdf] User Manual</div><div>W5, Bluetooth Beacon Tracker</div></div>
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