

SPORTident-Station BS11-BL

April 2016



Identification at check points in outdoor sport disciplines like trail, biking and skiing is slightly different than in orienteering. In general passing speed is higher and control points are more line elements than filigree objects. The BS11-BL is special adapted for these applications by enabling identification over the air. By using the BS11-BL the SPORTident Active Card SIAC1 can register the intermediate and start/finish times contactless in a range of up to 3 meters.

The station is part of SPORTident AIR+ system configuration.

BS11
Beacon Large
front side



BS11
Beacon Large
back side



The SPORTident Station BS11-BL features a new body and an increased RFID output power. The station works battery powered standalone but can be controlled and also be charged by USB interface.

The bigger antenna with an area of 185 mm x 240 mm generates a powerful low-frequency radio field while keeping the power consumption low. This enables a highly mobile and flexible setting of the stations at any course and at any location without the need of any additional external equipment.

Key features are:

- The SPORTident station BS11-BL is compatible with the SPORTident system parts and can be configured by software SI-Config+.
- The station triggers SPORTident Active Card SIAC1 at a distance of up to 3 meters for intermediate times and as start/finish station.
- There are two time keeping modes "punching" and "timing" to best serve in different sport applications.
- Two stations BS11-BL can be configured in a gate mode to achieve higher time trigger accuracy and in-lane-only identification.

The station transmits a data record comprising the internal real time, the code number, and the operating mode periodically. This record is caught by the SI-Card.

The number of SIAC's able to be registered simultaneous is unlimited.

The station does not directly receive signals from the SIAC. There is a second transmission channel by radio.

Please note: After the defined working time, the station turns OFF automatically. There is no prolongation depending on triggered SI-Cards.

Handling and service

- The Control Station BS11-BL needs only minimal services. In typical application cycles only station's real time has to be monitored.
- Station's settings can be changed by using the software SI-Config+.
- The rechargeable battery has got a capacity of 4500 mAh. This is sufficient to power the station for more than 90 hours without a break. After that the battery must be charged via USB connector.
- The station is switched on with a magnet switch placed at stations side. To turn off the station activate the button and wait for three flashing cycles. Turning off the station is prolonged to prevent switching off inadvertently.
- SPORTident Control Station BS11-BL features an easy firmware upgrade mechanism. Station's firmware can be uploaded by the user via USB connection. Using this feature the station keeps up to date and enables the implementation of additional functionality. The firmware upgrade service is fully integrated in SI-Config+.

Specification

Internal power supply	1 x Lithium battery rechargeable
Battery capacity	4500 mAh
Battery charge	by USB
Working time before recharge	90 hours
Operating range	- 20°C + 50°C
International protection class	IP 64 (DIN EN 60529) Protection against penetration of dust Protection against splashed water from all directions
Dimensions	228 mm x 278 mm x 38 mm
Weight	960 g
Registration range in Beacon mode	Up to 3 meters, SIAC
Working modes	BC_CONTROL, BC_START, BC_FINISH
ON/OFF	by magnet switch

Notes:

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.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction. This device and its antenna(s) must not be co-located or operation in conjunction with any other antenna or transmitter.