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**Passive Coach™**

**USER MANUAL**



**Keep the Space Inc.**

2017/04/10

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**FCC/IC Compliance Statement:**

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.

**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 radiocommunications. 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 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.

**Caution:**

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:

- (1) this device may not cause interference, and
- (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

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**EU – Declaration of Conformity:**

Keep the Space Inc. declares that Passive Coach PC-01 complies with the essential requirements and other relevant provisions of Directive 1999/5/EC. A copy of the Declaration of conformity is available on request.

Keep the Space Inc.  
15650 Vineyard Blvd. Ste A Office #159, Morgan Hill, CA 95037

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## Overview

**Passive Coach™** is a patent pending device designed to use classical conditioning to *passively* assist in teaching soccer players of all ages. To keep space between each other allowing the initiating or receiving of a pass. An audio tone will sound when soccer players encroach within a specified distance, notifying the players to separate.

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## Version update records

Version number	File date	Update content
V2.1		The first release

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## Module parameters:

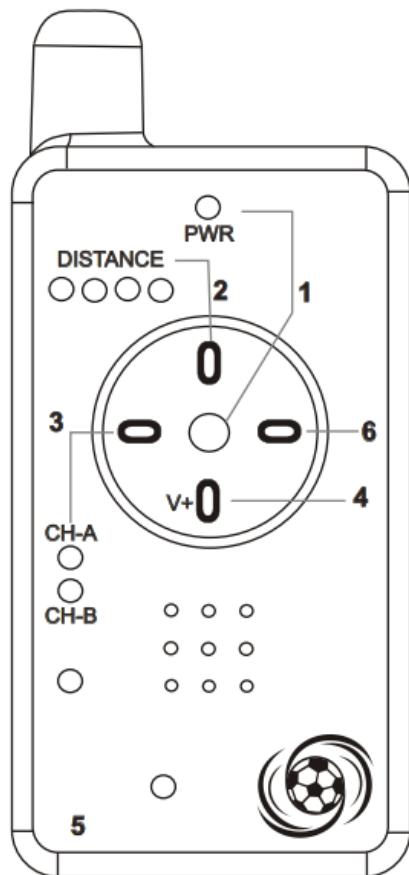
- Core: ARM® 32-bit Cortex® -M0 CPU
- Reset and power management
  - Digital & I/Os supply:  $V_{DD} = 2.4$  V to  $3.6$  V
  - Analog supply:  $V_{DDA} = V_{DD}$  to  $3.6$  V
  - Power-on/Power down reset (POR/PDR)
  - Low power modes: Sleep, Stop, Standby

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## HOW TO SET-UP PASSIVE COACH™

### **Button Color and Function**

1. On/Off button
2. Select one of 4 (four) distance settings
3. Select channel A or B teams for scrimmage, drills or field play
4. Select volume High, Medium, - flexible for instructional drills
5. Rechargeable battery - mini-USB Port
6. Select volume Low and Off.



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## Recommended operating conditions:

Function in operation conditions outside the limits of the parameter value in the following form does not guarantee its performance, beyond the limit of operation for a long time more or less affect the long-term reliability of the module.

Note:

- (1)Operating temperature is restricted by the change of the crystal frequency ;
- (2)To ensure the wireless RF performance, ripple of the power supply must be less than  $\pm 300\text{mV}$

Identification	Mini value	Typical value	Max value	unit
DC Input	4.5	5	6	V
Power Supply	3.6	3.7	4.2	V
VD Dand IO	3.1	3.3	3.6	V
Operation temperature	-40	25	85	°C
Environment hot place	-20		20	°C

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## Electrostatic discharge caution:



Module will be damaged by electrostatic discharge, RFSTAR recommends that all the module should be dealt with under the following three preventive measure:

1. Must follow the anti-static measures, cannot barely hand module.
2. Module must be placed in the storage area to prevent electrostatic.
3. Anti-static circuit of high voltage input or high frequency input should be considered during the product design.

To the result of the static electricity may result in minor performance degradation on to the failure of the entire equipment. Due to the parameters of the very small changes can lead to the value of the equipment does not meet the certification requirements, thereby module will be more vulnerable to damage.