Brio RC+ or RC+ BT

Remote control for LED lighting

Réf : PF10R088 (RC+) - PF10R08E (RC+ BT)

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Read these instructions carefully before installing, commissioning and using this product

1. Pack contents

- 1 **Brio RC+ or RC+ BT** control box with 1.5m of 3x2.5mm² pre-fitted cable with screws and wall plugs
- 1 "BRiO®" 4 way radio-frequency remote control
- Technical instructions (this document)

2. Technical characteristics

Power voltage	12V ~ AC 50/60Hz
Power consumption	5W maximum
Switching power (spots connected)	**120W** maximum
Ingress Protection	IP-55
Dimensions	110x160x42 mm
Radio-frequency remote control (range 30m)	4 way - Frequency: 433.92Mhz Battery: 12V 23A alkaline Consumption when sending: 18 mA max Power rating < 0.1 mW M/N.: MPRD0105
Bluetooth®	Low Energy (v4.x) Conforms to the R&TTE Directive 1999/5/EC

3. Description

Brio RC+ or RC+ BT enables to change remotely the colours of Brio® LED lights. It can control up to 120W (3 X30 or 8 X15) and must be connected to a control panel fitted with a 230/12V transformer to supply the controlled lights.

You can control the lights either with a radio remote control or with a smartphone thanks to a Bluetooth® app (*Ref. PF10R08E _ BRiO RC+ BT*)

3.1. Bluetooth® Control

The **BRIO RC+ BT** includes a Bluetooth® transmitter, which allows your lights to be controlled by a smartphone or tablet. To be able to control the **BRIO RC+ BT**, you will need an iOS (Apple®) or Android device with Bluetooth® Low Energy (v4.x) connectivity. Other operating systems (Windows Phone®,...) or devices equipped with Bluetooth® versions older than 4.0 **will not work with it**.

3.2. Lights compatibility

To get all lights synchronized in your pool you have to combine with RC+ and RC+ BT system compatible lights. **All after November 2016 manufactured CCEI lights (all X30 and X15 models) are compatible.**

4. Installation

4.1. Electrical connections

Installation of this project involves a hazard of electric shocks. We strongly recommend you contract a professional installer. Incorrect installation places you in danger and may irreversibly damage the product and the equipment connected to it.

For reasons of safety and compliance with the NF C15-100 standard, the Brio RC+ or RC+ BT box must be installed
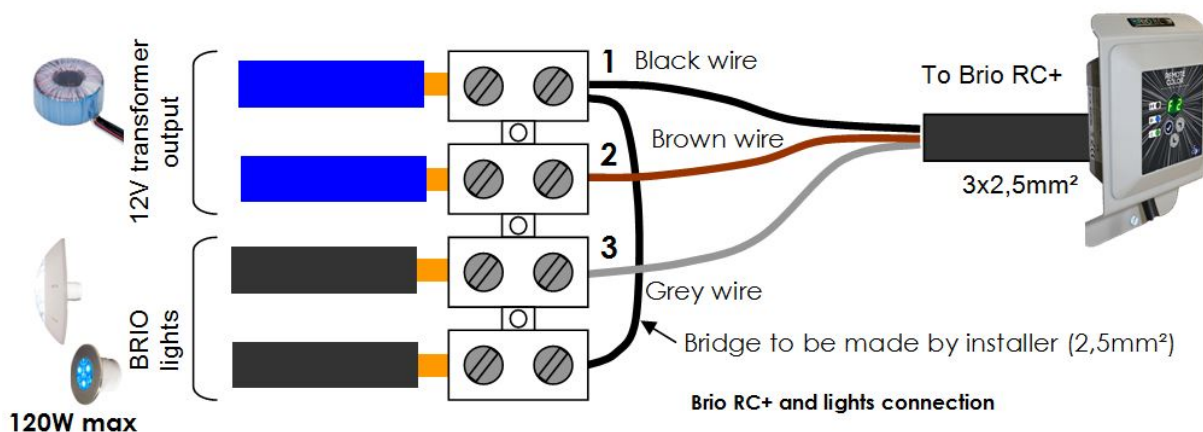
- **over 3m50 from the edge of the pool. This distance includes cable deviations around obstacles. If the box Brio RC+ or RC+ BT is installed behind a wall, this will then be the distance required to complete the loop and connect to the box.**
- **or in an underground space immediately next to the swimming pool. In this case the space must be accessible via a hatch which requires a tool to open it.**

The box is resistant to splashing but must not be placed in a place that may become flooded. The box Brio RC+ or RC+ BT must be placed on a flat and stable surface and attached to the wall using the screws and wall plugs supplied.

The Brio RC+ or RC+ BT must be connected **to the secondary output** of the lighting transformer. Only Brio-compatible lights (see description) may be connected to this transformer.

The total power of the connected lights must never exceed 120W.

Brio RC+ and lights connection

5. BRIO RC+ operation

5.1. Control interface

The interface includes a two-digit multi-function display, 3 indicator lights and 3 keys;

Component	Description
Indicator lamp	"Radio": This indicator light lights when receiving radio commands (from the 4-way remote controller)
Indicator lamp	"Bluetooth®": Continuously on when a user is connected Flashes once a second when waiting for a connection Flashes rapidly during initialisation (Bluetooth® unavailable) *Used only with PF10R08E*
Indicator lamp	"Lights": Off when the lights are turned off Flashes when commands are sent (micro-drops) to the lights Continuously on when the lights are turned on
Key	"Up / Plus" Increases a value and scrolls up the settings **Long tap (after cut see 5.3) : enables to access to the intensity settings**
Key	"Down / Minus" Decreases a value and scrolls down the settings **Long tap (after cut see 5.3) : enables to access to the sequencing speed settings**
Key	"Confirm / OK" Confirms selection of a parameter / colour / colour change sequence **Long tap (after cut - see 5.3) :** enables to access to the selection of the radio code **Short tap :** enables to to turn on and off the lights

5.2. Power on

When the unit is turned on, various types of information will be successively displayed on the multi-function display, and all indicator lights and segments of the display will flash in sequence.

Message	Meaning
I0	Software version loaded in the **Brio RC+ or RC+ BT** . (*I0* = version 1.0)
r1 / *r2* / *r3* / *r4*	Current **r**adio code
L1 / *L2* / *L3* / *L4*	Current **L**uminous intensity
d1 / *d2* / *d3*	Spee**d** of colour sequence

5.3. Intensity and sequencing speed settings

Turn off the power of the control panel and press the relevant scrolling key to display the intensity (🔄) or sequencing speed settings (🕒). Turn on the control panel and release the key.

Use then the keys 🔄 and 🕒 to select the right setting.

Confirm with ✅ and wait for the signal to be sent out to the lights. The latter done, the control box displays:

- *F0* if the intensity has been set
- *A4* if the sequencing speed has been set

In these modes it is easier to verify the changes.

If you have a RC+ BT (Ref. PF10R08E) it is possible to make the changes easily with the app.

5.4. Fixed colours and available sequences

The colours and sequences are displayed in a preassigned order:

- **1 to 11 : fixed colours. 1.**Pure white | **2.**Blue | **3.**Blue Lagoon |**4**.Cyan | **5**.Violet | **6**.Magenta | **7**.Pink | **8**.Red | **9**.Orange | **10**.Green | **11**.See green
- **12 to 18 : sequences. 12**.Fast gradient | **13**.Slow rainbow | **14**.Colours parade | **15.**Techno rhythm | **16**.Blue variations | **17.**Random parade | **18**. Ramdom colours

Reset : *rt* .Deletes the favorite colour, intensity settings, sequencing speed, sets the lights to blue and the **Brio RC+ or RC+ BT** displays *F1*.

In *A1* animation mode, several colour nuances are played. The user may save a colour he particularly likes while pressing the "pause key" of the remote control when the colour is currently played. The colour is then stored under *FU*. The storage is possible only with the animation mode *A1*.

5.5. Radio-frequency remote control

The radio-frequency remote control can be used to control colour changes from a distance. A wall mount is also supplied. This mount is attached to a wall using two screws, it holds the remote control unit when not in use.
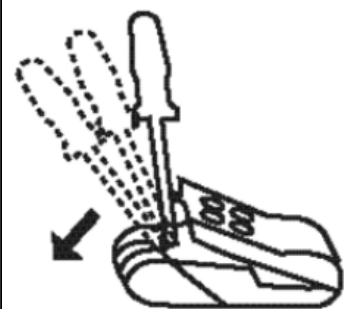

Key	Function
⏻	**On / Off** This key turns the lights on and off. When turning back on they will be the same colour or in the same sequence as when they were turned off.
‖▶	**Set / Program** When the lights are on, this key will switch between "set" and "sequence" modes. When the pool is lit in set mode, pressing this key will start sequence n°1 (*A1*). If a sequence is running when the key is pressed, the pool lighting will switch to white (*F0*).
◀◀ ▶▶	**Last and Next** These keys are used to scroll through colours and sequences.

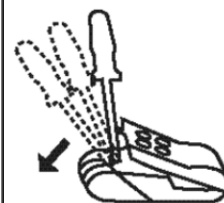|	
To replace the battery, open the device (using a screwdriver as illustrated in the drawing) and replace the battery (12V 23A alkaline). ⚠ **Check the polarity is correct as shown on the bottom of the device.**	

5.6. Selecting the radio code

In the event that another radio device is in the vicinity, it may interfere with the operation of your installation (e.g. a neighbour also has a Brio RC+ or RC+ BT), the code can be changed. **You will also need to change the code on the Brio RC+ or RC+ BT and inside the remote control unit**. To do this it is necessary to

1. Cut the power to the Brio RC+ or RC+ BT ,

2. Press the key ✓ and hold it,

3. Turn on the Brio RC+ or RC+ BT ,

4. Release the key,

5. Change the current radio code which appears on the screen (r1 / r2 / r3 / r4),

6. Use the keys ⌐ and L to set it again,

7. Press the key ✓ to confirm.

There are 10 switches inside the remote control unit (under the battery cover) which are used to set the code. To open the device, use a screwdriver as illustrated in the drawing.

The code displayed on the screen (r1 / r2 / r3 / r4) must correspond to the positions of switches n°5 and 6.

- A "0" corresponds to the "OFF" switch position
- A "1" corresponds to the "ON" switch position

The other switches must always stay in the same position.

Display	Code	Positions of the switches
r1	0011**00**1010	
r2	0011**01**1010	
r3	0011**10**1010	
r4	0011**11**1010	

6. Bluetooth® connection (RC+ BT_PF10R08E)

Only one device can be connected to a BRIO RC+ BT at a time.

When the application is opened it scans the **RC+ BT** in its range and displays "Looking for **RC+ BT**".

• If only one **BRIO RC+ BT** is in range, it will connect automatically.

• If there are several available, a selection list will appear.

• If no devices are detected, the application will display the message "No **Brio RC+ BT** detected". In this case, check that your device is compatible with Bluetooth Low Energy (4.x), get closer to the **BRIO RC+ BT** or try with another device. Press the button in the centre of the screen to launch a new search.

A. Copyright

The Bluetooth® trademark is associated with the protected marks belonging to Bluetooth SIG, Inc.

The Apple® trademark is a protected mark belonging to Apple Inc., filed in the United States and other countries.

The Windows Phone® trademark is a protected mark belonging to the Microsoft Corporation., filed in the United States of America and/or in other countries.

B. Declaration of conformity

CCEI S.A.S (FR 47 40 35 21 693) declares that product Brio RC + or RC+ BT is compliant with the safety and electromagnetic compatibility requirements of European directives 2006/95/CE and 2004/108/CE .		
C E		Emmanuel Baret Marseilles, on 23/02/2017
Distributor's stamp		
Date of sale: . . . . Batch N°:		