

Brio RC+

Remote control for LED lighting

Réf : PF10R088



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

1. Pack contents

- 1 **Brio RC+** 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)
- 1 bag with 2 screws/wall plugs and rapid connectors for connections : 2 x 3 points et 1 x 5 points.

2. Warnings



This product must be installed by an approved or certified electrician or a qualified pool professional in compliance with the National Electrical Code (NEC), NFPA 70 or the Code Canadien de l'électricité (CCE), CSA C22.1. All local installation codes and by-laws must also be respected. Incorrect installation creates electrical hazards which can lead to death or serious injury for users, installers and other persons from electric shocks, it can also lead to damage to the power source. Always disconnect power at the circuit-breaker board before installation. A failure to do this can lead to death or serious injury for people using the swimming pool, installers and other persons from electric shocks.



For countries which comply with the regulations of the International Electrotechnical Commission (IEC): Light fittings must be installed by and approved or certified electrician or a pool maintenance professional, in compliance with the current IEC 364-7-702 standard and all local applicable codes and by-laws. Incorrect installation creates electrical hazards which can lead to death or serious injury for users, installers and other persons from electric shocks, it can also lead to damage to property.

3. 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: 433.91Mhz433.92Mhz Battery: 12V 23A alkaline Consumption when sending: 18 mA max Power rating < 0.1 mW M/N.: MPRD0136 M/N.: MPRD0105 FCC: 2AF5D-MPRD0136 IC: 20710-MPRD0136

4. Description

Brio RC+ 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.

4.1. Lights compatibility

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

5. Installation

5.1. Electrical connections



Installation of this project involves a hazard of electric shocks. We strongly recommend you contract a professional installer. Incorrect installation puts 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 and local and NEC directives, the Brio RC+ box must be installed

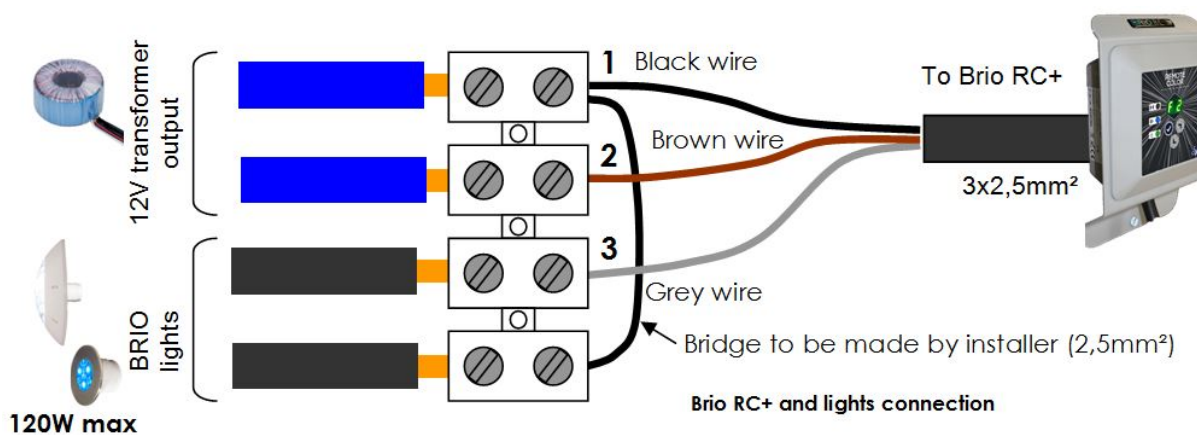
- over 3m50 (11.5 feet) away (or more if required by local legislation)) from the edge of the pool. This distance includes cable deviations around obstacles. If the box Brio RC+ is installed behind a wall, this will then be the distance required to complete the loop and connect to the box.
- or in an 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+ must be placed on a flat and stable surface and attached to the wall using the screws and wall plugs supplied.

The Brio RC+ 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.



6. BRIO RC+ operation

6.1. 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	"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

6.2. 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
10	Software version loaded in the Brio RC+ . (10 = version 1.0)
F1 / F2 / F3 / F4	Current radio code
L1 / L2 / L3 / L4	Current luminous intensity
d1 / d2 / d3	Speed of colour sequence

6.3. 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.

6.4. 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.



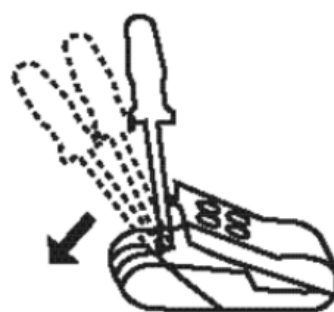
Key	Function
	On / Off This key turns the lights on and off. When turning back on they will be the same colour or in the same sequence as when they were turned off.
	Set / Program When the lights are on, this key will switch between "set" and "sequence" modes. When the pool is lit in set mode, pressing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

This unit conforms to section 15 of the FCC regulations. The following conditions must be met when using it: (1) The device should not cause harmful interference and (2) the device must be able to handle any interference received, including interference which may affect its operation.

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.

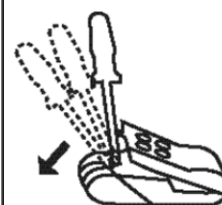


6.5. Selecting the radio code

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+), the code can be changed. **You will also need to change the code on the Brio RC+ and inside the remote control unit.** To do this it is necessary to

1. Cut the power to the Brio RC+ ,
2. Press the key  and hold it,
3. Turn on the Brio RC+ ,
4. Release the key,
5. Change the current radio code which appears on the screen (**r1** / **r2** / **r3** / **r4**),
6. Use the keys  and  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	

A. Declaration of conformity

CCEI declares that the product meets the safety and electromagnetic compatibility requirements of European directives electromagnetic compatibility requirements of European Directives 2014/35/EU and 2014/30/EU EU and the Radio Equipment Directive 2014/53/EU.		
		Emmanuel Baret Marseilles, on 23/02/2017
Distributor's stamp		
<i>Date of sale: Batch N°:</i>		