Lightwave RF

MEGAMAN®

Signal Booster

Model No. JSJSLW800

Instruction Manual

Connect Series

www.lightwaverf.house

Version 2

EC DECLARATION OF CONFORMITY

Responsible Authority:

LightwaveRF PLC,
Innovation Campus Birmingham
Faraday Wharf
Holt Street
Birmingham
B7 4BB

Tel: +44 (0)121 250 3625
Email: enquiries@lightwaverf.com

Model Number(s):	JSJSLW800
Description:	Signal Booster
Directives this equipment Complies with:	2006/95/EC The Low Voltage Directive N/A 2004/108/EEC The Electromagnetic Compatibility Directive 1999/5/EC R&TTE Directive 93/68/EEC CE Marking Directive

Standards Applied in order to verify compliance

Safety: BS EN 60730-1: 2011

Health:
R&TTE: EN 301 489-1 V1.9.2: (2011-09), EN 301 489-3 V1.4.1: (2002-08)
EN 300 220-1 V2.1.1: 2006, EN 300 220-2 V2.1.2: 2007
EMC: EN 301 489-1 V1.9.2: (2011-09), EN 301 489-3 V1.4.1: (2002-08),
EN 55022: 2010, EN 61000-3-2: 2006 +A1: 2009 +A2: 2009 Class A,
EN 61000-3-3: 2008, EN61000-4-2: 2009,
EN 61000-4-3: 2006 +A1: 2008 +A2: 2010, EN 61000-4-4: 2012,
EN 61000-4-5: 2006, EN 61000-4-6: 2009, EN 61000-4-11: 2004

For and on behalf of LightwaveRF PLC

Name	J Shermer
Position	Managing Director

Device Setup

How do I get started?

Please refer to the following instructions that will guide you through the setup of a LightwaveRF Signal Booster. Once successfully setup, the Booster will extend the range of linked LightwaveRF Controllers (including the Lightwave Link & Smartphone App).

How does it work?

The Signal Booster is a wireless, portable device and should be positioned between the LightwaveRF controller and the target device (must be within the 15m range of either). As it is waterproof, It can be positioned outdoors. It is designed to receive the signal from the controller and resend it, thereby extending the range.

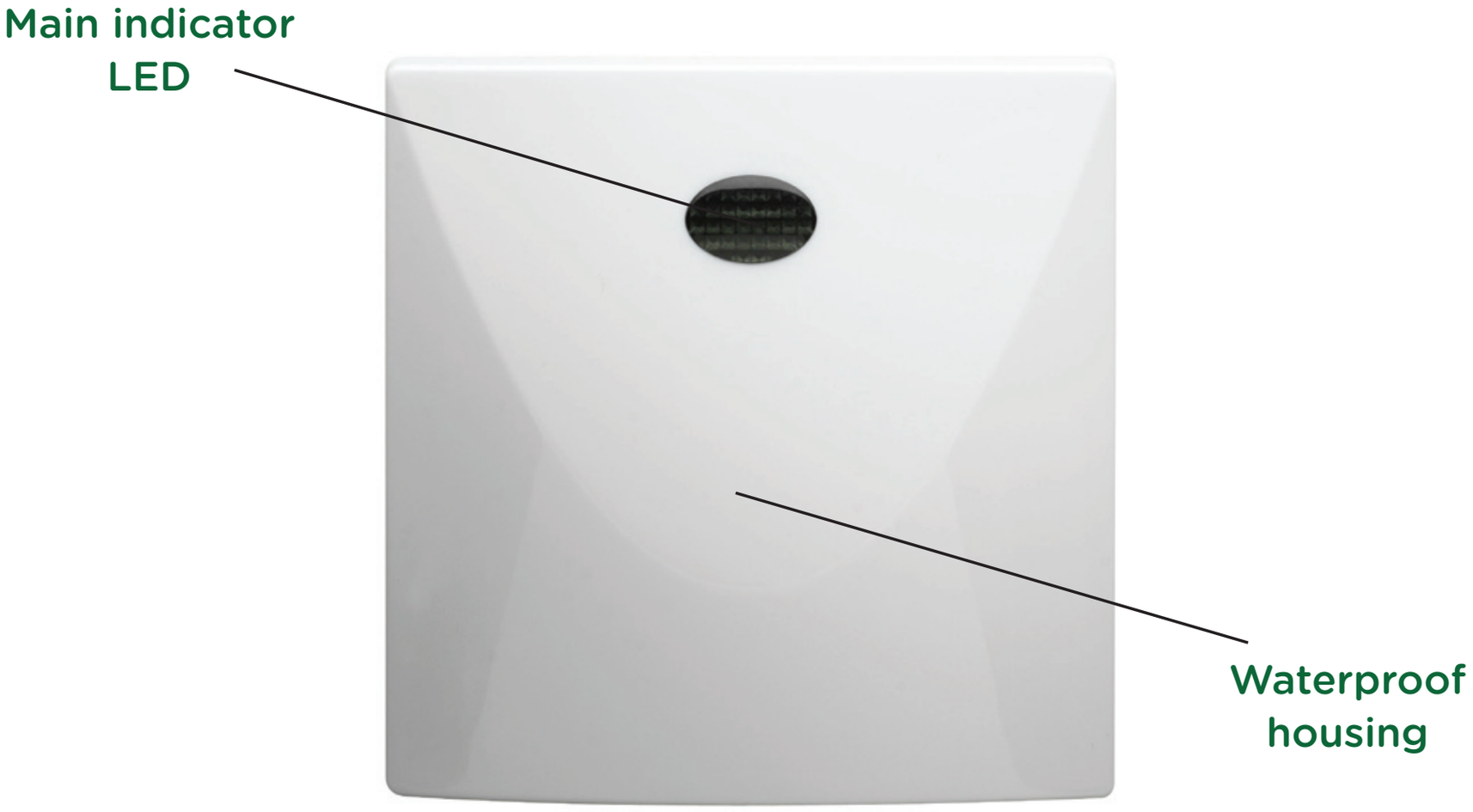
Help video & further guidance

For additional guidance, and to watch a video that will help guide you through the installation process, please visit the support section on **www.lightwaverf.house.**

Device Setup

Overview

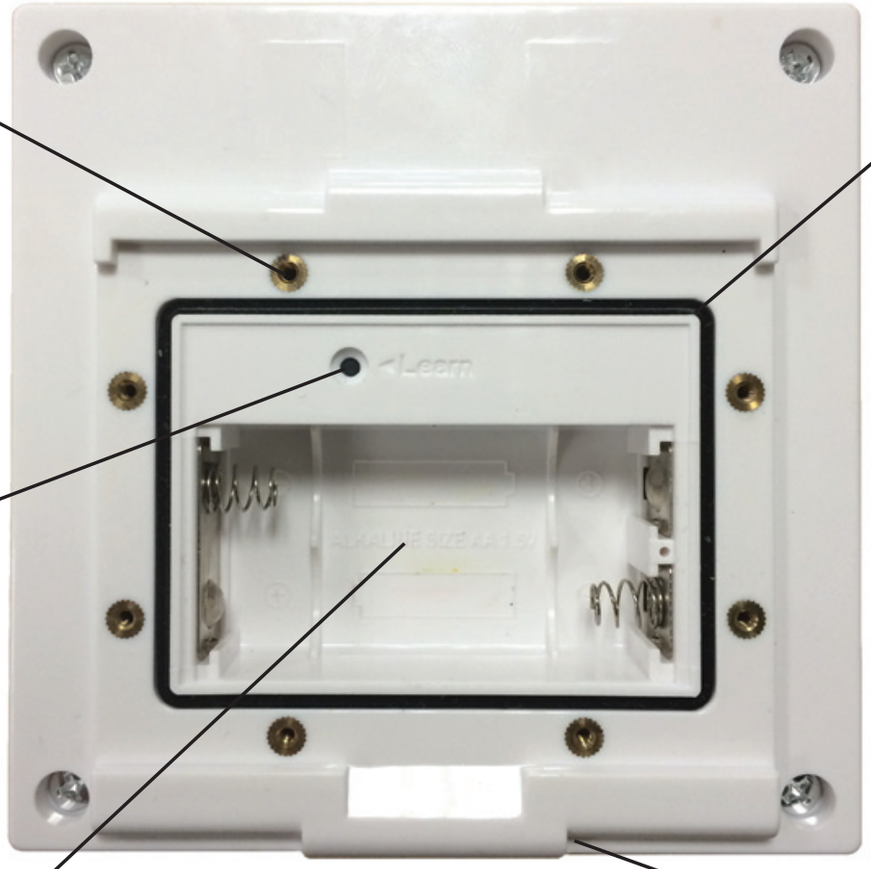
Front



IMPORTANT: Please retain these instructions for guidance on how to link the sensor to other LightwaveRF devices. For additional guidance please visit **www.lightwaverf.house.**

Back

(cover and stand removed)



Cover mounting screw hole

Waterproof seal

Linking button

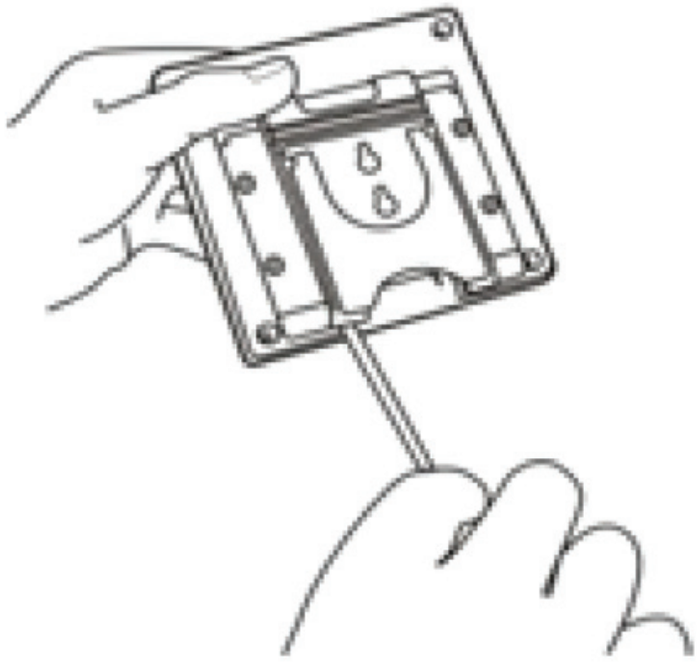
Battery compartment

Stand mounting hook

Device Setup

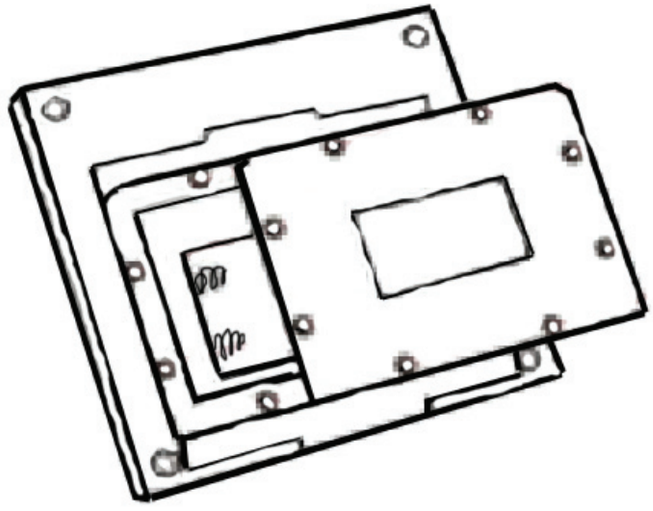
Removing the back cover

In order to setup the Signal Booster, and to insert or replace the batteries, the back cover must first be removed.



1. Gently unhook the rear stand using a flathead screwdriver as shown.

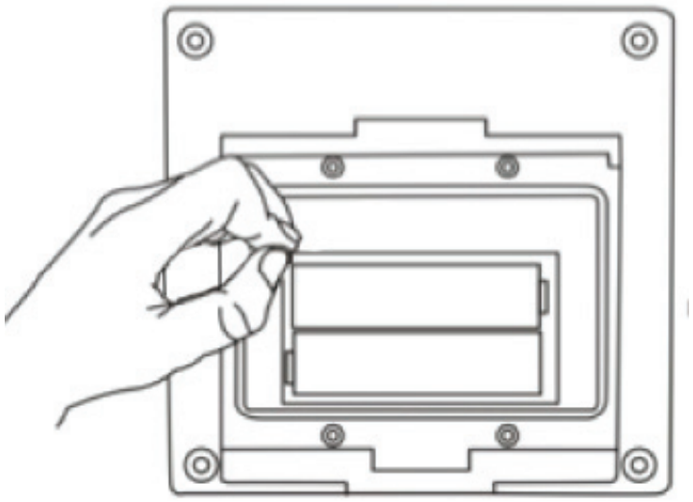
2. Unscrew the back cover using a suitable screwdriver.



NOTE: When reassembling, it is important that the back cover is screwed on securely in order to retain the waterproof quality of the booster housing.

Inserting the batteries

The battery compartment is accessed from the rear of the booster beneath the cover. 2 x AA batteries are required (not included).



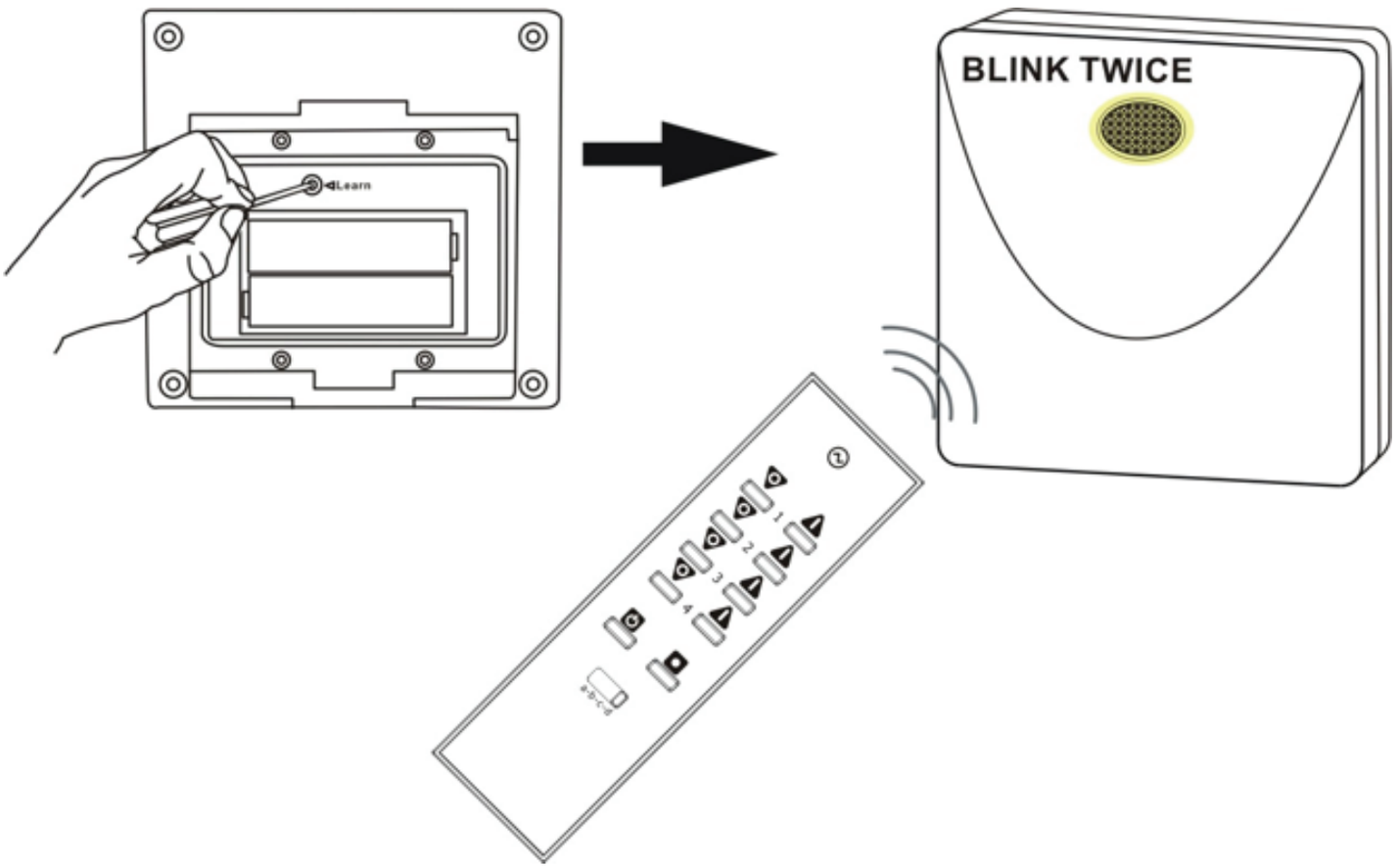
NOTE: When the batteries are low, the booster LED will flash every 3 seconds.

Linking the booster to a LightwaveRF controller

1. Ensure that the controller (or LightwaveRF App) that requires its range extending is linked to the target device - e.g. LightwaveRF Handheld Remote linked to a LightwaveRF Dimmer Switch. To understand how to do this, see the relevant instructions for that device.

Device Setup

2. Press and release the linking button (located under the back cover). The LED on the Signal Booster will flash repeatedly to indicate that it has entered linking mode.



3. Whilst the device is in linking mode, send a command from the controller / App. The LED on the Signal Booster should flash twice more slowly to indicate that it has received and stored the command. The next time that the command is sent, the booster should receive and acknowledge it (the LED will flash) and resend it to the target device after 2 seconds.

Unlinking the booster from a LightwaveRF device

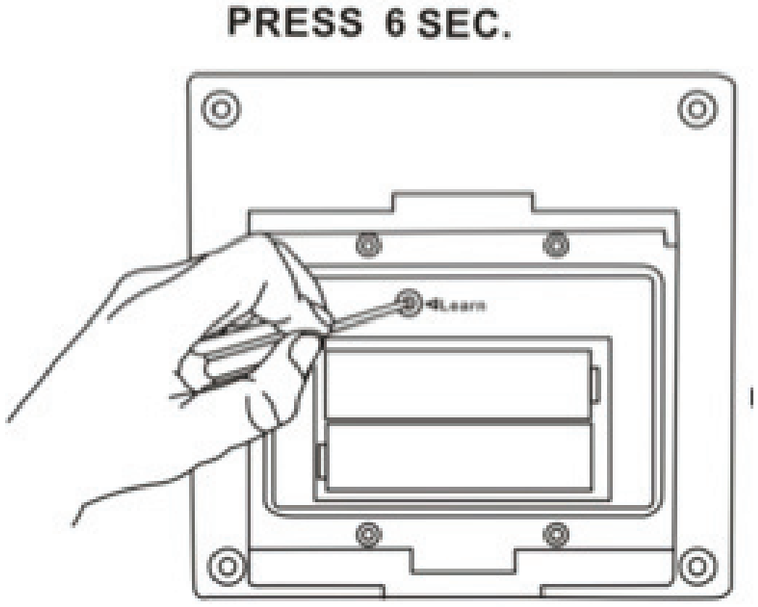
1. Press and release the linking button (located under the back cover). The LED on the Signal Booster will flash repeatedly to indicate that it has entered linking mode.

2. Whilst the device is in linking mode, send a command from the controller / App. The LED on the Signal Booster should flash twice more slowly to indicate that it has received and removed the command.

Clearing the Signal Booster memory

1. Press and hold the linking button (located under the back cover) for around 6 seconds. The LED on the Signal Booster will flash rapidly.

2. Whilst the LED is still flashing, press and release the linking button. The LED will flash twice slowly to indicate that the memory has been cleared.



Device Setup

NOTE: The Signal Booster can be linked to six independent commands in total from any LightwaveRF controllers, including the Lightwave Link & App. If it will not successfully link to a new controller then it is possible that the booster memory is full.

Placement of the Signal Booster

IMPORTANT: For reliable operation, the positioning of the Signal Booster is important. It must be placed within the range of both the transmitter (controller) and receiver (target device). Under normal indoor conditions this is around 15m; however, this distance may be reduced if there are objects present that could affect radio signals. These include large metal objects (large radiators, structural steel), large bodies of water, or very thick walls.

In the event of unreliable performance, as it is portable, the Signal Booster‘s position can be altered in order to achieve better transmission.

Specification

RF frequency: 433.92 MHz

Input rating: 1.5V (2 x AA Batteries)

Range: 15m (indoors)

IP56 Approved.

Lightwave RF

MEGAMAN®

2 Quadrant Park
Mundells
Welwyn Garden City
Herts
AL7 1FS
01707 386035

www.lightwaverf.house

FAQs

Q. ***Can I link the Signal Booster to the Lightwave Link?***

A. The Signal Booster can boost to up to 6 specific commands (total) from any combination LightwaveRF controllers. This includes commands from the Lightwave Link. To boost a Lightwave Link command, that command needs to be sent from the LightwaveRF App whilst the booster is in linking mode. The command is then stored and boosted every time that it is sent from the App.

Q. ***How do I initially link devices that are out of range and in a fixed location (e.g. if a Lightwave Link transmission will not reach a Dimmer Switch)?***

A. Link the specific command from the controller (e.g. Lightwave Link) that is out of range to the Signal Booster first. Then, move the booster closer to the target device. Whilst the target device is in linking mode, resend the command from the controller. This should link the target device to the controller via the Signal Booster.

Q. ***What if the performance is still unreliable after setting up the Booster?***

A. Try repositioning the Signal Booster. Because the device is portable, this should be easy to do. Remember that very thick walls, bodies of water or metal objects can affect radio performance. Positioning the booster higher up and away from large objects may improve performance.