

## Instructions for using LightwaveRF with Mosaic

### Background

The Mosaic MP5 and MP10 Music Players support LightwaveRF lighting systems 'natively'.

By 'natively' we mean that they support the 433MHz protocol these devices themselves use between their remotes/mood controllers and dimmers/switches with no need to have a LightwaveRF WiFiLink hub installed (the Mosaic Players act as Mood Controllers in LightwaveRF parlance).

If you do have a LightwaveRF WiFiLink this will happily operate alongside the Mosaic system and allow you to control the LightwaveRF equipment from their Apps as well.

All control of LightwaveRF by Mosaic is done either from the Mosaic App or the Home Control buttons on the Mosaic Players themselves.

Setup is achieved using the buttons on the Mosaic Player; once this is done the Home Control buttons in the Mosaic App will automatically recall the same functions.

### Setup

The Mosaic Players pair to LWRF equipment just like a LightwaveRF remote pairs to a LightwaveRF dimmer or switch. Each Player can be paired to multiple LightwaveRF devices in the room in which it resides and will then act as a room controller for LightwaveRF.

Note: it is often a good idea to name your Mosaic Player after the room in which it resides (kitchen, bedroom etc.) for this reason.

### Pairing/Linking

Ensure your Mosaic Player is powered, turned on and connected to your network (solid blue Standby/On LED).

Put your LightwaveRF device into pairing/linking mode according to their own instructions, these are usually:

**For LightwaveRF plug in dimmers/switches; press and hold the button on the side for four/five seconds until the LED starts to alternate between orange and blue.**

**For LightwaveRF in-wall dimmers/switches; press and hold both buttons (On/Off or Raise/Lower) together for four/five seconds until the two LEDs starts to flash alternately between orange and blue.**

Once the LightwaveRF device is pair-able we need to send it an On command from the Mosaic Player to pair to.

**Tap the Home Control (lightbulb symbol) button, the LED above the Home Control button will light up blue. Now press the Standby/On button.**

The Mosaic Player will send a LightwaveRF On command and the LightwaveRF device should flash its Blue LED rapidly to indicate it has been paired.

Note: to clear a pairing of a LightwaveRF device just do the same again. First put it into pairing then send it the On command of an already paired remote/mood controller. The LightwaveRF device will flash its Orange LED indicating the pair has been deleted. To re-pair, simply do the same operation again and so on.

Repeat the pairing process from for any other LightwaveRF devices you wish to pair to that Player.

Note: there is no limit to the number of devices that a Mosaic unit can pair to but the LightwaveRF devices can only be paired to six controllers (remotes or Mosaic Players etc.) at a time. It is possible to delete individual pairs as above or alternatively reset all pairing of a LightwaveRF device - see end section.

## Basic control of LightwaveRF from a Mosaic Player

Once paired you can now control all the paired LightwaveRF devices in unison.

**Tap the Home Control (lightbulb symbol) button, the LED above the Home Control button will light up blue and Home Control mode is active.**

**Now press the Standby/On button to turn the LightwaveRF device on, the X button to turn it off or the +/- buttons to lower/raise the lighting level (if the LightwaveRF device is dimmable).**

**Home Control mode automatically cancels itself once you have performed an action.**

The Mosaic Home Control mode also allows recall of four scenes/moods from the 1-4 buttons; see next section on how to set up scenes/moods.

## Setting up LightwaveRF scenes/moods on a Mosaic Player

When you have multiple LightwaveRF devices in a room you can set each one to a particular setting and then store all of the settings as a scene/mood to be recalled at the touch of a button. For those familiar with LightwaveRF setup this feature is the same as setting up a LightwaveRF Mood Controller.

To facilitate setup of moods/scenes you won't need a LightwaveRF Mood Controller as the Mosaic unit is acting as the Mood Controller; **but you will need a handheld LightwaveRF remote.**

The process is to set all the devices to the levels that you want to save using the LightwaveRF remote, and then send them a Scene store command from the Mosaic Player.

Pair your LightwaveRF remote to the LightwaveRF devices in the same room as the Mosaic Player in the normal way and set each one to the desired setting.

**Tap the Home Control (lightbulb symbol) button on the Mosaic Player. The LED above the Home Control button will light up blue and Home Control mode is active.**

**Now press and hold the button for the Scene/Mood number you wish to store (there are four scene/mood buttons 1-4).**

**After four/five seconds the Musaic Player sends out a scene store command and all the LightwaveRF devices should flash their LEDs to indicate they received a scene store command.**

You can repeat this process for any other scenes you wish to store.

## **Control of LWRF scenes/moods from a Musaic Player**

Once setup you can now control up to four scenes/moods from your Musaic Player.

**Tap the Home Control (lightbulb symbol) button. The LED above the Home Control button will light up blue and Home Control mode is active.**

**Now press the '1' button to recall scene/mood 1 or the '2' button to recall scene/mood 2 etc.**

**Home Control mode automatically cancels itself once you have performed an action.**

## **Control of LightwaveRF from the Musaic App**

Once setup as above you will also be able to control LightwaveRF from the Musaic App.

**Select the Player/room you wish to control in the normal way via the Players menu.**

As mentioned it is often a good idea to name your Musaic Player after the room in which it resides (kitchen, bedroom etc.) for this reason.

**Select the Home Control menu.**

**Tap the Mood buttons to recall LightwaveRF moods.**

Note: if you have more than one Musaic Player you can store separate moods on each suitable for the room in which it resides.

## **Combining with other lighting systems**

The Musaic system is also able to control Philips Hue devices (see separate guide: 'Instructions for using Philips Hue with Musaic').

When combining lighting systems with Musaic the Mood buttons are able to recall settings for more than one system at the same time so that for instance both Philips Hue and LightwaveRF can be controlled by the Mood buttons at the same time and used in the same mood/scene.

## **Other useful Information**

**Clearing the memory of a LightwaveRF device.**

Note: there is no limit to the number of devices that a Musaic Player (or indeed LightwaveRF remote) can pair to but that the receiving LightwaveRF devices can only be paired to six controllers (remotes or Musaic Players etc.) at a time (adding a seventh will cause the device to flash its LED slowly orange showing an error condition). In normal use this is not normally a problem as it would be unusual to have more than six remotes/mood controllers for one room.

To clear an individual pairing of a LightwaveRF device first put it into pairing then send it the On command of an already paired remote/mood controller. The LightwaveRF device will flash its Orange LED quickly indicating the pair has been deleted. To re-pair, simply do the same operation again.

To delete **all** pairings for a device:

**For LightwaveRF plug in dimmers/switches; press and hold the button on the side for four/five seconds until the LED starts to alternate between orange and blue. Now let go and press and hold the button again for four/five seconds until the LED flashes quickly purple. Finally let go and press the button briefly. The LED will now flash orange quickly and all pairing/linking will be erased.**

**For LightwaveRF in-wall dimmers/switches; press and hold both buttons (On/Off or Raise/Lower) together for four/five seconds until the two LEDs starts to flash alternately between orange and blue. Now press and hold the Off button (only) for four/five seconds until both LEDs flash in unison. Finally let go and press the button Off briefly. The orange LED will now flash quickly and all pairing/linking will be erased.**

## Range

The reliable range of operation for the LightwaveRF protocol covers all normal room sizes (up to 100m line of sight is possible). The protocol will also work through walls to devices that are not in the same room as the Mosaic Player if they are within about 15 metres. However this figure will vary depending upon the environment; such as very thick walls, metal objects or anything else that may interfere with radio range.

Note: Mosaic Ltd. is not responsible for LightwaveRF products in any way. Always contact your LightwaveRF dealer if in any doubt as to their specification or usage or are in need of technical support for these products.

More information on LightwaveRF products can be found at: [www.lightwaverf.com](http://www.lightwaverf.com).