

RC4 Wireless dimmers

Quick Start Guide

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Related RC4 products

- LumenDimM2
- LumenDimM4
- LumenDim4
- W-Dim3
- W-Dim4
- Magic DMX2dim
- Magic DMX4dim
- Magic DMX4dim500

Screw terminals for connection of

power supply (DC IN: 6 - 32 VDC) and 4 channels DC out (DimA, B, C, D)



Buttons and Indicators

recommended tool for push buttons: paper clip

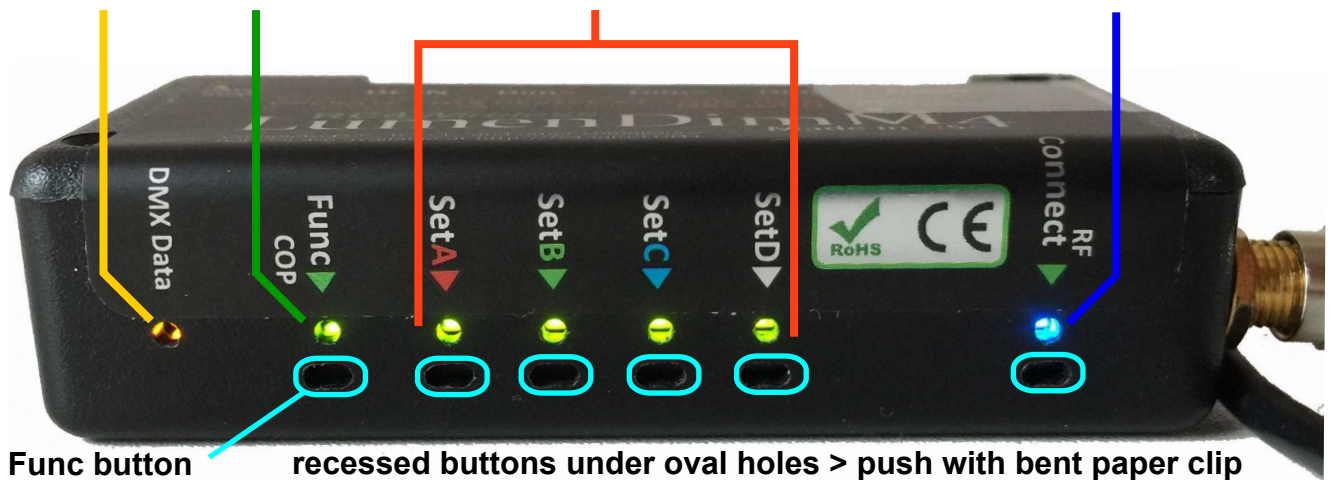


DMX data LED
 steadily on when DMX data received

COP LED
 > see next page

Output indicator LEDs
 channel A, B, C, D

RF status LED
 linked/not linked



Getting started

DC power is applied to the DC IN > COP LED is blinking.

Linking with a transmitter

1. Link the dimmer with a Lumenradio or W-DMX transmitter.
If the dimmer was linked with an unknown transmitter before you need to unlink it first:
Push "Connect" longer than 5 seconds > **blue** LED goes OFF
2. Link with transmitter:
 - 1: @ transmitter push "link" button > LED @ transmitter starts blinking
 2. @ RC4 dimmer push ""Connect" > **blue** LED is blinking, if linked: LED steadily ON

Set-up of DMX channels and dimmer curves

1. You will need to have a linked dimmer with a transmitter.
Use a simple dimmer console or a DMX tester connected at the DMX input of the wireless transmitter for set-up.
2. If there is a present DMX signal **DMX data LED** @ dimmer is ON
3. Set all DMX channels to level 0.
The first transmitted DMX channel and its according level will assign the DMX channel **AND** its dimmer curve to dimmer output channel A, B, C or D at the same time.
Use a bent paper clip > set-up the level due to the table shown below > push "SET **A**" > depending on the level this DMX channel AND dimmer curve is assigned to this DC output channel.

HINT: If you set at first channel **A** > channels **B**, **C** and **D** are set automatically.
DMX channel **B** = DMX address **A**+1, **C** = DMX address **A**+2, **D** = DMX address **A**+3

Dimmer curve, digital persistance , PWM frequency	Level % (0-100)	Level DEC (0-255)
Non-dim > ON/OFF OFF (no digital persistance), no modulation	100% (80% or higher)	255 (205 or higher)
Linear > use fur tungsten bulbs OFF (no digital persistance), 77 Hz PWM	70% (60 - 79%)	180 (154 - 204)
ISL fast > use for LED, fast response needed OFF (no digital persistance), 5 kHz PWM (default)	50% (40 - 59%)	128 (103 - 153)
ISL slow > use for LED smooth dimming default DP: Fast medium, 5 kHz PWM (default)	30% (20 - 39%)	77 (52-102)
Channel ignored no change of current settings	less than 20%	less than 52

Allocate an arbitrary DMX address/dimmer curve by setting B, C and D with different values > Push "Set B" ... using the same procedure as shown above.

Dimmer bump button mode

When an RC4 Series 3 device is not receiving DMX channel data, the Set buttons become Dimmer Bump Buttons. In this state, the DMX data indicator is off.

In Bump Button mode, pressing a Set button momentarily turns the associated dimmer channel on at 75% (or 100% when the Non-Dim curve is assigned). The dimmer will go off when the button is released.

If the dimmer does not go off, there is active DMX data coming in and the buttons are in RC4 OneTouch™ mode

Wired DMX control

Use the optional available DMX Adaptor cable with male plug to configure the dimmer without a transmitter. On LumenDim and W-DIM devices, wired DMX input is active when the RF card is unlinked from all transmitters.

Do this by holding the RF button for 5 seconds, until the blue RF indicator goes off.

(LumenDim only) RDM management

RC4 LumenDim devices provide full wireless RDM support using Lumen Radio CRMX. If you need wireless RDM, use RC4 LumenDim wireless dimmers with a Lumen Radio wireless DMX system.

Change PWM frequency (for ISL curves only), DMX signal must be present

Available PWM frequencies:	blink pattern @ output A and B
615 Hz	B - A - A
1.25 kHz	A - B - A
5 kHz (default)	B - B - A
10 kHz	A - A - B
20 kHz	B - A - B
40 kHz	A - B - B

Hold down "Set B" button for 3 seconds > connected lamps/output indicator LEDs will show a blink pattern @ output A and B > release "Set B".

Every 3 secs push will cycle through the frequencies shown to the left. [see video here](#)
After 40 kHz > 615 Hz

If required assign DMX channel first.

Reset to factory settings

Press and hold the Func button, then press and release (i.e. tap) the SetA button. The DimA indicator will blink several times to indicate that defaults have been restored:

- Normal device mode (DMX DimA/B/C/D)
- DimA/B/C/D set to DMX channels 1/2/3/4
- All dimmers set to ISL-Slow curve
- All dimmer PWM frequencies to 5 kHz
- All RC4 Digital Persistence times to Fast Medium, emulating the persistence of an MR15 halogen lamp
- RC4 Wireless Fldr Engine and HSL color engine are unassigned

For more details and videos please visit <https://rc4.info>

Change the Digital Persistence (DP) for LEDs with ISL dimmer curve

The digital persistence emulates the behaviour of a halogen bulb when LEDs are used. Due to the 8-bit resolution of a DMX channel= 256 steps these steps might be visible when used with LED. At all RC4 Wireless dimmers you may vary the digital persistence.

For the fast LED response time change it here.

Default setting is "medium".

PLEASE remove the DMX signal!

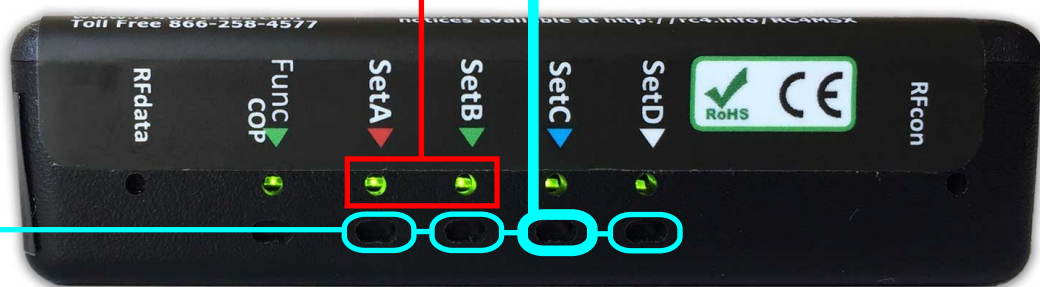
With every long push on "SetC" the options will cycle through the table. After option 7 will get Option 1 again.

The blink pattern will be returned on lamps connected DimA and DimB or as shown on the **output indicator LEDs**.

As soon as the blink pattern appears, release "SetC".

Option/DP	channel	blink pattern
Option 1	DimA	• • •
no DP	DimB	
Option 2	DimA	• • •
very fast	DimB	•
Option 3	DimA	• • •
fast	DimB	•
Option 4	DimA	• • •
medium	DimB	•
(default)		
Option 5	DimA	•
medium slow	DimB	• • •
Option 6	DimA	•
slow	DimB	• • •
Option 7	DimA	
very slow	DimB	• • •

DMX4dim



Change of private system IDs (valid only for RC4 Magic Dimmer DMX2dim, DMX4dim and DMX4dim500)

Different system IDs makes it easy to use several RC4 Magic systems in the same environment at the same time. On power-up, the RFcon and COP indicators blink to indicate which System ID is currently selected:

Change ID at dimmer and transmitter DMXio/DMXio-HG (see label on bottom):

1. Remove power supply from dimmer/transmitter
2. Push and hold "SetA" > ID0, "SetB" > ID1, "SetC" > ID2 or public ID "SetD" > ID3 (not recommended)
3. Power-up device > blinking LEDs show, which ID has been selected: > ID0: LED "RFcon"; ID1: "COP"; ID2: "RFcon" and "COP" blinks together, ID3 (public): "RFcon" and "COP" blinks alternately > release button.