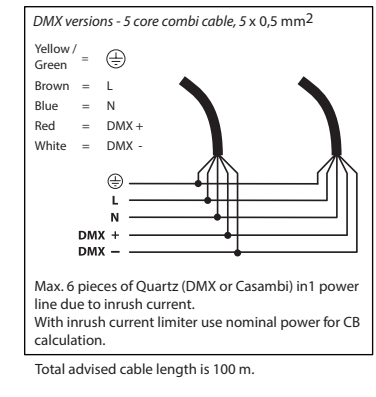
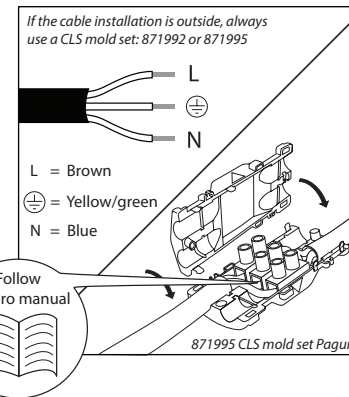
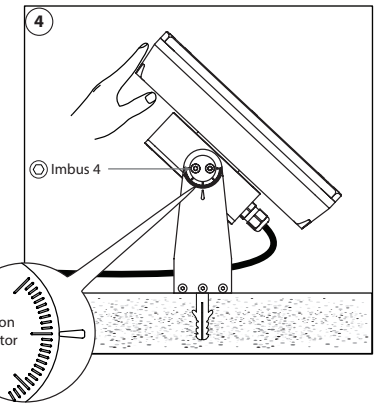
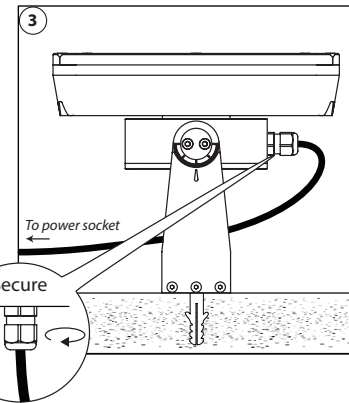
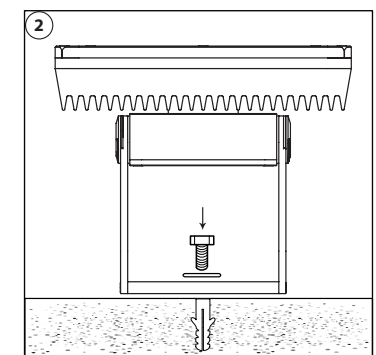
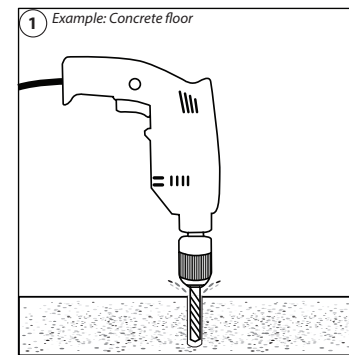


### SPECIFICATIONS

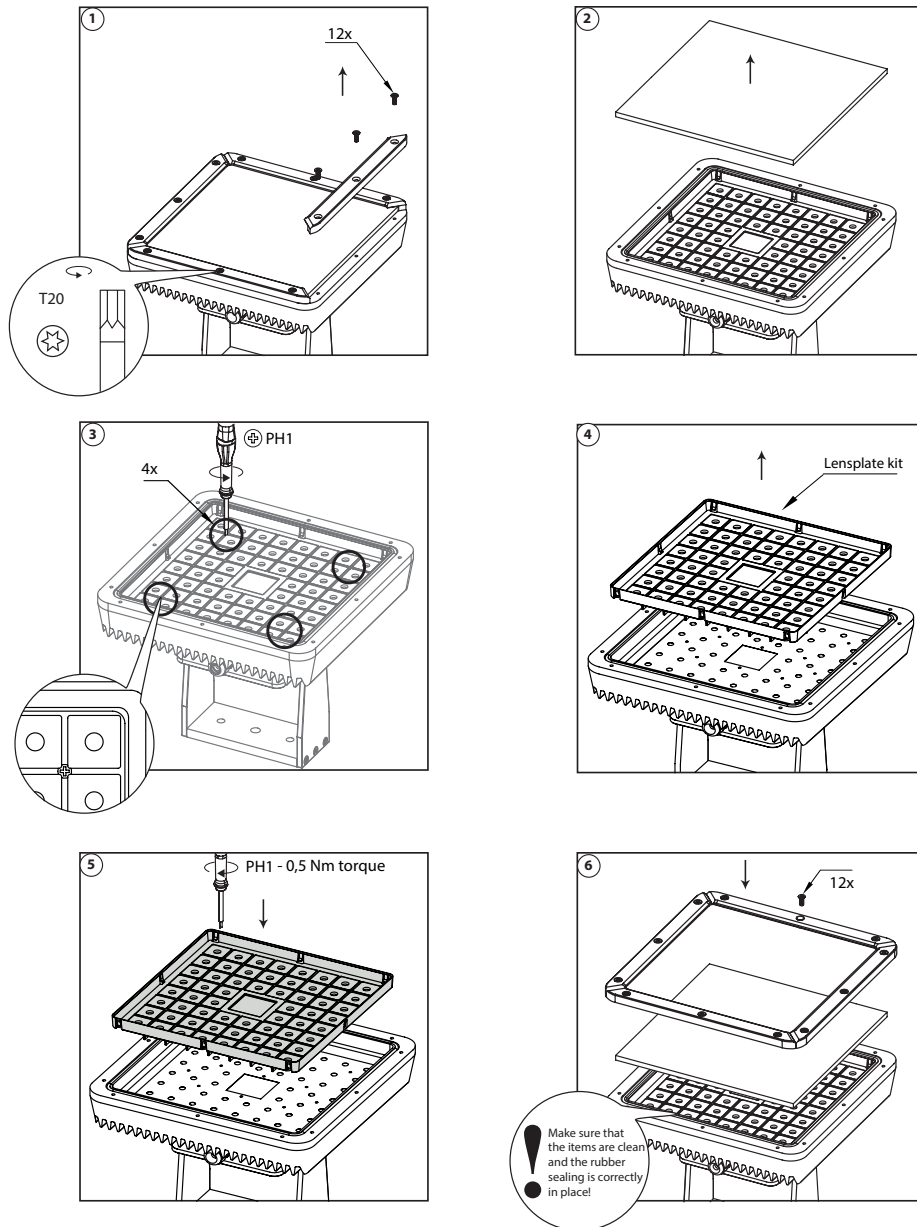
LED: 60 x High Power LED  
 Available colours: 1800K, 2200K, 2700K, 3000K, 4000K or 6500K  
 Colour Changing: RGBA & RGBW  
 Tunable White: 1800K-3000K, 1800K-4000K or 2700K-5700K  
 Lenses: 8°, 12°, 30°, 60°, 80° and 12x46°  
 Power supply: 100 - 240 VAC  
 Power consumption: Max. 80 Watt  
 Housing: Anodised aluminum blank or black  
 Weight: 6 kg  
 IP value: IP67  
 Cable length: 2 meters  
 Ambient temperature: -30° C till +50° C

### ACCESSORIES

Y111201-E CLS Quartz lensplate kit elliptical 12x46°  
 Y111201-F CLS Quartz lensplate kit flood 80°  
 Y111201-M CLS Quartz lensplate kit medium 30°  
 Y111201-N CLS Quartz lensplate kit superspot 8°  
 Y111201-S CLS Quartz lensplate kit spot 12°  
 Y111201-W CLS Quartz lensplate kit wide 60°  
 871992 CLS mold set, straight 8-26mm  
 871995 CLS mold set Paguro grey  
 Y110776 CLS Power/DMX combi cable outdoor (per meter)  
 Y110777 CLS Power/DMX combi cable outdoor 100 meters  
 Y106017 CLS Magnet pin (5 pcs)



# LENS REPLACEMENT

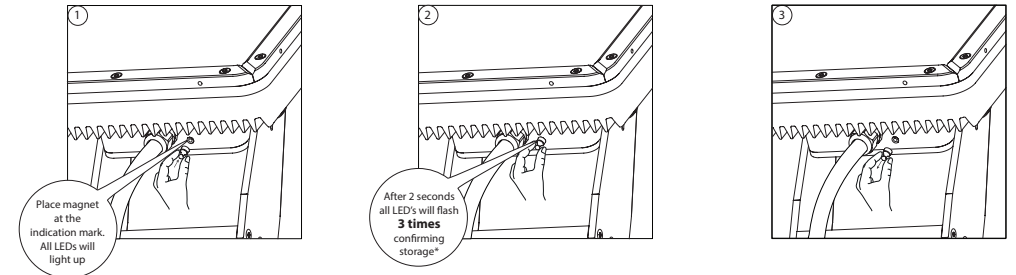


# PROGRAMMING

All settings can be configured via DMX. Settings can be configured at once or separately. When one or a couple settings needs to be changed just leave all other setting values zero. This keeps those settings unchanged. Please check the table for more information.

Always use a DMX controller with digital interface.

First make sure to set the DATA on the DMX controller. To program the setting into the LED fixture follow the next steps.



\* If all LEDs flash **10 times**, something went wrong. Please try again. If the problem continues to occur, please contact your local sales distributor.

## WIRELESS DMX

See the Manual of Wireless Solutions. The Manual can be found on our CLS website, in the Downloads section. Or use the link below <https://www.cls-led.com/wp-content/uploads/cls-files/W-DMX-manual.pdf>

### Unlink procedure

When the fixture does not receive a DMX signal (DMX controller off), place the magnet on the indication mark of the fixture for 5 seconds. Slow flash indicates that the fixture is unlinked.

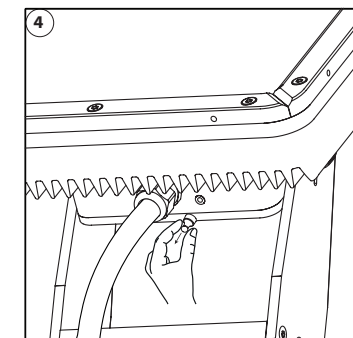
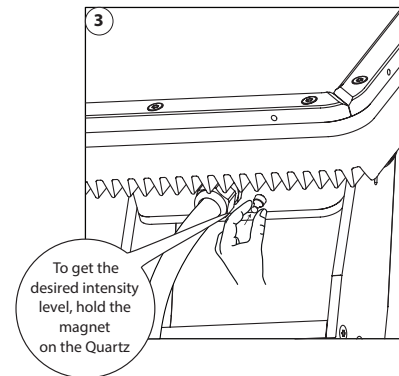
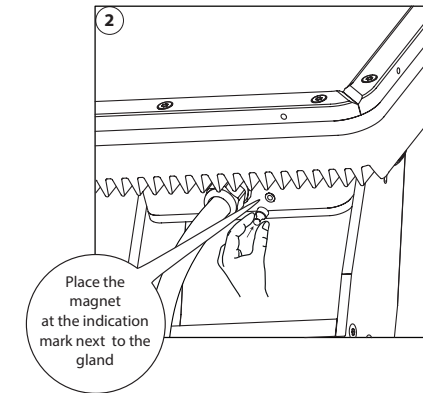
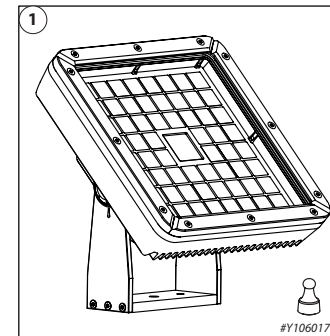
## BLUETOOTH BY CASAMBI

For Casambi controlled fixtures, see the manual of Casambi. The Manual can be found on our CLS website, in the Downloads section. Or use the link below: [https://www.cls-led.com/wp-content/uploads/cls-products/CLS\\_CASAMBI/MANUAL/Manual\\_Casambi\\_controlsistem\\_EN.pdf](https://www.cls-led.com/wp-content/uploads/cls-products/CLS_CASAMBI/MANUAL/Manual_Casambi_controlsistem_EN.pdf)

LED colour	Number of DMX channels needed			
	1	2	3	4
Single colour	✓			
Tunable White		✓		
ColourFlow				✓

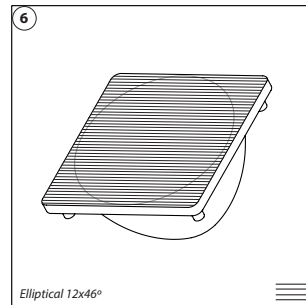
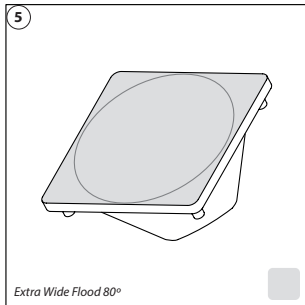
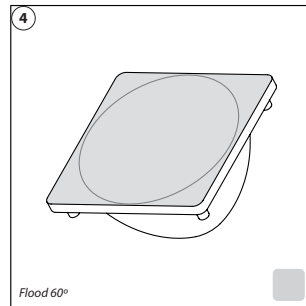
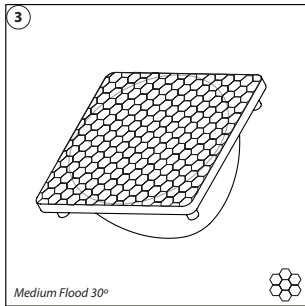
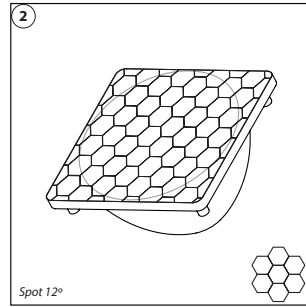
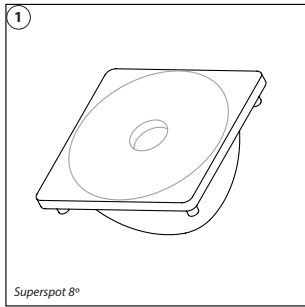
PROGRAMMING TABLE				
DMX	Function	Data	Parameters	Description
CH1	Set address 001 to 255	0	0 = no change *	Use this DMX channel to set address from 001 to 255. The configured DMX address is called "n"
		1...255	DMX address = 1...255	
CH2	Set address 256 to 508	0	no change	Use this DMX channel to set address from 256 to 508. The configured DMX address is called "n"
		1...255	DMX address = 256...508	
CH3	Static behavior	0	no change	If no DMX is present the fixture will respond like set in this function.
		1	last DMX value *	
		2	output off	
		3	load static values	
CH4	Soft dim	0	no change	When dynamic softdim is activated an extra DMX channel behind the colours and/or Master controls the soft dim reaction. If fixed no extra DMX channel is used.
		1	off *	
		2	dynamic	
		3-250	fixed interpolation delay	
CH5	Master control	0	no change	If master is first channel is selected the channel will be DMX channel "n". If master is last channel is selected the channel will be "n+x" ("x" is calculated in the output patch).
		1	no master used *	
		2	master is first channel	
		3	master is last channel	
CH6	Output 1 patch	0	no change	Each output channel can be patched to respond to the desired DMX channel. This enables the user to mix up the colours according to the controller that is used.
		1	DMX channel n	
		2	DMX channel n+1	
		3	DMX channel n+2	
		4	DMX channel n+3	
CH7	Output 2 patch	0	no change	<b>Example: all outputs are patched as 1</b> All outputs will be controlled by DMX channel "n". If master is used total DMX channels will be 2 otherwise it uses 1 channel ("x" = 1).
		1	DMX channel n	
		2	DMX channel n+1	
		3	DMX channel n+2	
		4	DMX channel n+3	
CH8	Output 3 patch	0	no change	<b>Example: output 1&amp;2 are patched as 1 and 3&amp;4 are patched as 2</b> Output 1&2 will be controlled by DMX channel "n". Output 3&4 will be controlled by DMX channel "n+1". If master is used total DMX channels will be 3 otherwise it uses 2 channels ("x" = 2).
		1	DMX channel n	
		2	DMX channel n+1	
		3	DMX channel n+2	
		4	DMX channel n+3	
CH9	Output 4 patch	0	no change	Each output channel can be set to a static intensity.
		1	DMX channel n	
		2	DMX channel n+1	
		3	DMX channel n+2	
		4	DMX channel n+3	
CH10	Static output 1	0	no change	If no DMX is present and Static behavior is set to "load static values". The outputs will be set to the configured intensity values.
1	output off			
2...255	intensity 2...255 *(255)			
CH11	Static output 2	0	no change	This function resets all settings to the Factory setting.
		1	output off	
		2...255	intensity 2...255 *(255)	
CH12	Static output 3	0	no change	In 16 bit mode 2 channels are used per colour. First channel is rough channel, second channel fine. 16 bit mode is only available in DRIVE mode 2.
		1	output off	
		2...255	intensity 2...255 *(255)	
CH13	Static output 4	0	no change	You can set the frequency of the PWM for best compatibility with Camera Systems. However, the highest resolution of the dimming curve will be at the lowest frequency. Option 1 can be used to be compatible with older installation and new fixtures.
		1	output off	
		2...255	intensity 2...255 *(255)	
CH14	Load default settings	0	no change	
		1	load Factory settings	
CH15	Input Resolution setting	0	no change	
		1	8 bit *	
		2	16 bit	
CH16	Drive mode setting	0	no change	
		1	compatible with version < 2020	
		2	PWM frequency 0.7kHz *	
		3	PWM frequency 1.4kHz	
		4	PWM frequency 2.8kHz	
5	PWM frequency 5.6kHz			

\* Default setting



1. Place the magnet next to the cable gland, at the indication mark.
2. The Quartz starts slowly dimming from 100 - 1% in approx. 30 seconds. The dimming is very accurate and precise, so steps are very small.
3. At the desired intensity level, take away the magnet.
4. After 10 seconds the Quartz flashes one time, the value has been stored on the internal memory.
5. When powering up the Quartz, the stored value will be recalled from the internal memory.
6. If you want to have a lower value, replace the magnet and the Quartz dims further to lower levels. To store the new setting repeat step 3 - 5.
7. If the Quartz is being dimmed to Level 0 and you have not programmed a value, it will automatically start at Level 100 and dim back from 100 - 1%.

# LENS INDEX



2025 CLS-LED BV. All rights reserved. Information subject to change without notice. CLS-LED BV and all affiliated companies disclaim liability for injury, damage direct or indirect loss, consequential or economic loss or any other loss occasioned by the use of, inability to use or reliance on the information contained in this manual. No part of this manual may be reproduced, in any form or by any means, without permission in writing from CLS-LED BV. Other legal information can be found in our General conditions, found on the back of your CLS-LED BV invoice, inside the CLS catalogue or on our website [www.cls-led.com/General-Terms.pdf](http://www.cls-led.com/General-Terms.pdf)

# LIST OF SYMBOLS

	<b>Protection class</b> One, two or three		<b>Retail &amp; Food LED modules</b> Clothing, furniture, kitchens, jewellery, shoes, bread, meat, fish and vegetables & fruit.
	<b>Application area</b> Indoor or outdoor		<b>Colour</b> Available colours: Amber, blue, red or green
	<b>Application area</b> Floor, wall or ceiling		<b>White colour temperature</b> In different Kelvin values: Cold white, neutral white, warm white or extra warm white
	<b>Swivel</b> Fixture is horizontally rotatable, indicated in degrees		<b>Curve</b> Minimal bending curve in centimeters
	<b>Swivel</b> Fixture is vertically rotatable, indicated in degrees		<b>Cutting length</b> Indicated by the cutting marks
	<b>Multiple connection</b> Daisychain connectivity		<b>LED pitch</b> Pitch between the LEDs in millimeters
	<b>Installation depth</b> In centimeters		<b>Power supply</b> In VDC, VAC or milliAmpere
	<b>Installation size</b> In centimeters		<b>Power consumption</b> In VA or Watt
	<b>Cable length</b> Maximum cable attached to the fixture in centimeters		<b>Dimmable</b> 1-10 Volt, Phase, individual, DMX dimmable or DALI
	<b>Driver</b> Inclusive or exclusive Internal or external		<b>PWM dimming</b> Traditional PWM dimming, DMX analog or DMX Hybrid dim
	<b>Weight</b> In grams/kilograms		<b>Bluetooth controlled</b> By Casambi
	<b>Pressure</b> Maximum pressure on the fixture in kg/cm <sup>2</sup>		<b>Magne dimming</b> Accurate dimming from 100 - 1% by using a magnet
	<b>Lifespan</b> Of the light source in hours		<b>Dynamic Control</b> Dynamic Power Control or Dynamic Temperature Control
	<b>Lenses</b> Available lenses, indicated in degrees		<b>DMX input</b> Fixture works on DMX512 protocol or Wireless DMX
	<b>Performance Zoom</b> Adjustable beam angle		<b>Combined product</b> Compose your own fixture
	<b>LEDs</b> Kind of LED used in the fixture		<b>Warranty</b> 3 or 5 years warranty on the product
	<b>Plug &amp; play</b> Easy connection using the SmartConnect system		<b>Conformité Européenne</b> CE marking for free marketability of industrial goods within the EU
	<b>IP value</b> Ingress Protection classifies the degrees of protection provided against the intrusion of the product		<b>Energy label</b>
	<b>Colour changing</b> RGB, RGB-W, RGB-A, AWB or Tunable White		<b>Lightsource</b> Equipped with a CLS, Bridgelux or a Xicato LED module