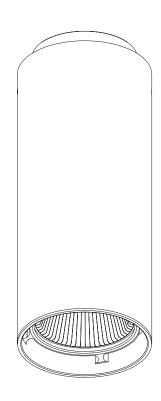
CLS RUBY SURFACE SERIES

Manual V1.4 - December 2024



INDEX



10 Low dimmable DMX CASAMBI

Index	2
Safety information	2
Content	2
Technical	3
Specifications	3

Installation	4	
Installation DMX Version	5	
Programming	6	
Wireless DMX	6	

Bluetooth by Casambi	6
Programming table	7
Reflector replacement	8
List of symbols	10

SAFETY INFORMATION











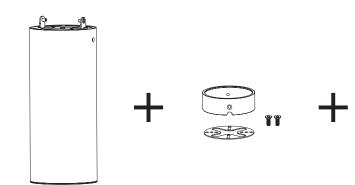
Disconnect the power supply before installing or maintaining

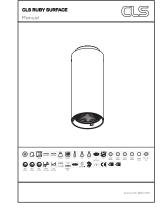
Make sure all connectors are connected properly

Use a source of AC power that complies to local electrical codes Block access below the work area when maintaining the unit

Don't modify or install genuine parts on this product Don't install in a flammable or explosive area Warning! Some surfaces can be hot

CONTENT





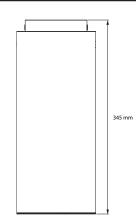


Max. Max. Mains 1-10V 60 Watt 90 Watt dimmable dimmable



TECHNICAL

INSTALLATION





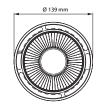




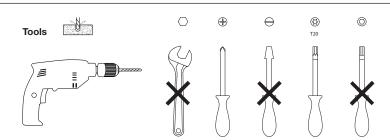


Surface ring









SPECIFICATIONS

LED: 1 x High Power LED Available colours: CRI>80: 2500K or 2700K CRI>92: 2700K, 3000K, 4000K

16°, 49°, 63° Lenses: Power supply: 200 ~ 240 VAC Power consumption: 7 serie: Max. 45 Watt 8 serie: Max. 60 Watt

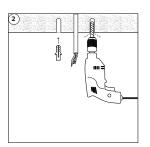
9 serie: Max. 90 Watt

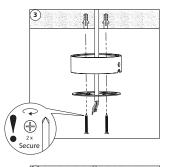
Housing: Anodised aluminium black or white coated

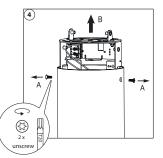
Weight: 3500 gr IP value: IP20

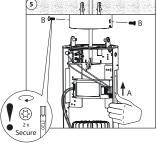
Measurements: 345 x 139 mm (hxe) Ambient temperature: -10° C till +40° C

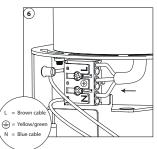


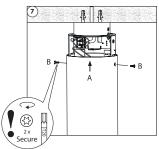


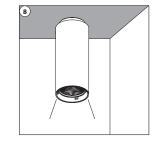








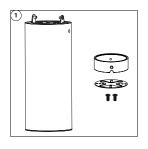


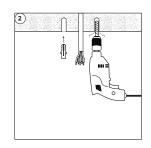


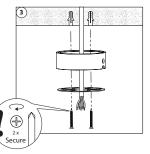


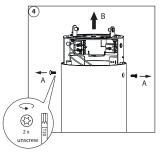
INSTALLATION DMX VERSION

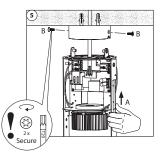
PROGRAMMING

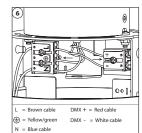


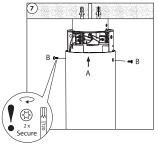


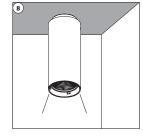




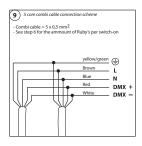


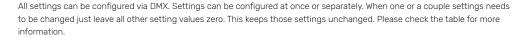






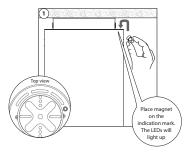
5

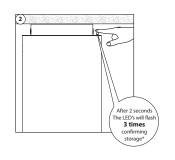


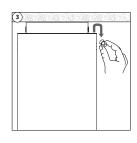


Always use a (universal) DMX controller with digital interface.

First make sure to set the DATA on the DMX controller. To program the setting into the LED fixture follow the next steps using a CLS magnet (#Y106017).







* 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

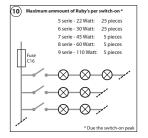
Unlink procedure

When the fixture does not receive a DMX signal (DMX controller off), place the magnet on the bottom 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_controlsystem_EN.pdf



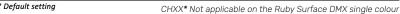




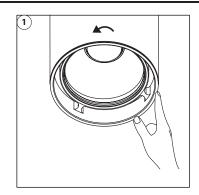
PROGRAMMING TABLE

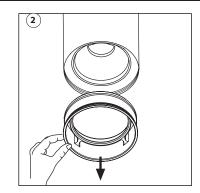
REFLECTOR REPLACEMENT

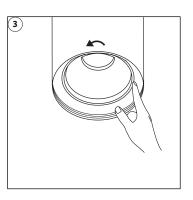
			PROGRAMMING T	
MX	Function	Data	Parameters	Description
CH1	Set address	0	0 = no change *	Use this DMX channel to set address from 001 to
	001 to 255	1255	DMX address = 1255	255. The configured DMX address is called "n"
CH2	Set address	0	no change	Use this DMX channel to set address from 256 to
CITE	256 to 508	1255	DMX address = 256508	508. The configured DMX address is called "n"
		0	no change	
CH3 Static	Static	1	last DMX value *	If no DMX is present the fixture will respond like s
СПЗ	behavior	2	output off	in this function.
		3	load static values	
		0	no change	When dynamic softdim is activated an extra DMX
CH4	Coft dim	1	off *	channel behind the colours and/or Master controls
CH4	Soft dim	2	dynamic	the soft dim reaction. If fixed no extra DMX channel
		3-250	fixed interpolation delay	is used.
		0	no change	If master is first channel is selected the channel will
M M	Master	1	no master used *	be DMX channel "n". If master is last channel is
CH5	control	2	master is first channel	selected the channel will be "n+x"
		3	master is last channel	("x" is calculated in the output patch).
		0	no change	
		1	DMX channel n	Each output channel can be patched to respond to
CH6	Output 1	2	DMX channel n+1	the desired DMX channel. This enables the user to
	patch	3	DMX channel n+2	mix up the colours according to the controller that is
		4	DMX channel n+3	used.
		0	no change	
		1	DMX channel n	Example: all outputs are patched as 1
CH7 *	Output 2	2	DMX channel n+1	All outputs will be controlled by DMX channel "n". If
CHI	patch	3	DMX channel n+2	master is used total DMX channels will be 2
		4	DMX channel n+3	otherwise it uses 1 channel ("x" = 1).
		0		\dashv
		1	no change	Example: output 1&2 are patched as 1 and 3&4 are
*	Output 3	2	DMX channel n	patched as 2
CH8	patch	3	DMX channel n+1	Output 1&2 will be controlled by DMX channel "n".
			DMX channel n+2	Output 3&4 will be controlled by DMX channel
		4	DMX channel n+3	"n+1".
		0	no change	If master is used total DMX channels will be 3
*	Output 4	1	DMX channel n	otherwise it uses 2 channels ("x" = 2).
CH9	patch	2	DMX channel n+1	_
	-	3	DMX channel n+2	_
		4	DMX channel n+3	
	Static output	0	no change	Fach autnut abannal can be set to a static intensity
CH10	1	1	output off	Each output channel can be set to a static intensity.
	-	2255	intensity 2255 *(255)	If no DMX is present and Static behavior is set to
*	Static output	0	no change	"load static values". The outputs will be set to the
CH11	2	1	output off	configured intensity values.
	-	2255	intensity 2255 *(255)	
*	Static output	0	no change	
CH12	3	1	output off	
	2255 intensity 2255 *(255)			
*	6	0	no change	
CH13	Static output	1	output off	
	4	2255	intensity 2255 *(255)	
* Load defau	Load default	0	no change	This function resets all settings to the Factory
CH14*	settings	1	load Factory settings	setting.
CH15 Reso	Input	0	no change	In 16 bit mode 2 channels are used per colour.
	Resolution	1	8 bit *	First channel is rough channel, second channel fine.
	setting	2	16 bit	16 bit mode is only available in DRIVE mode 2.
	Drive mode setting	0	no change	25 5.5 mode is only available in Drive mode 2.
		1	compatible with version < 2020	You can set the frequency of the PWM for best
		2	PWM frequency 0.7kHz *	compatibility with Camera Systems. However, the
CH16		3	PWM frequency 0.7kHz *	highest resolution of the dimming curve will be at
CH16			PANISH TRANSPORT A LAKET	
CH16	setting			the lowest frequency. Option 1 can be used to be
CH16	setting	4 5	PWM frequency 2.8kHz PWM frequency 5.6kHz	the lowest frequency. Option 1 can be used to be compatible with older installation and new fixtures.

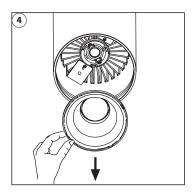


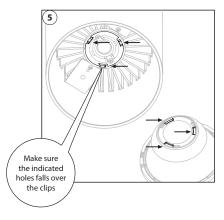
7

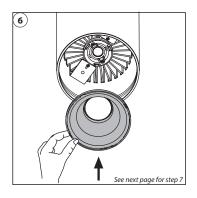










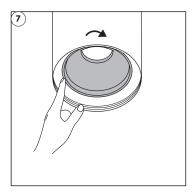


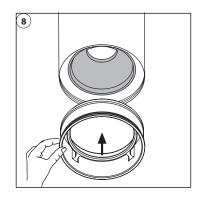
Following steps on the next page

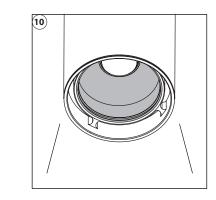


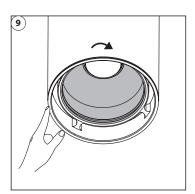


LIST OF SYMBOLS











9





















Fixture is horizontally rotatable, indicated in degrees



Fixture is vertically rotatable, indicated in degrees



Multiple connection Daisychain connectivity



Installation depth In centimeters



Installation size



Cable length Maximum cable attached to the fixture in centimeters



Driver Inclusive or exclusive Internal or external



Weight In grams/kilograms



Pressure Maximum pressure on the fixture in kg/cm



Of the light source in hours









Performance Zoom



Kind of LED used in the



Plug & play Easy connection using the SmartConnect system





degrees of protection provided against the intrusion of the product Colour changing RGB. RGB-W. RGB-A









Retail & Food LED modules Clothing, furniture, kitchens, jewellery, shoes, bread, meat, fish and

vegetables & fruit.













Curve Minimal bending curve in centimeters

marks



Cutting length Indicated by the cutting



Pitch between the LEDs in millimeters



Power supply In VDC, VAC or milliAmpere







DMX

DMX Dimmable



PWM dimming Traditional PWM dimming, DMX analog or DMX Hybrid dim



Bluetooth controlled By Casambi



DIM

Magno dimming Accurate dimming from 100 - 1% by using a magnet



Dynamic Control Dynamic Power Control or Dynamic Temperature Control



DMX input Fixture works on DMX512 protocol or Wireless DMX



Combined product Compose your own fixture



Warranty 3 or 5 years warranty on the product



A A A A

CLS DYNAMIC COLOUR COB DridgeLIX XICATO

Conformité Européenne CE marking for free marketability of industrial goods within the EU



LightsourceEquipped with a CLS, Bridgelux or a Xicato LED module



