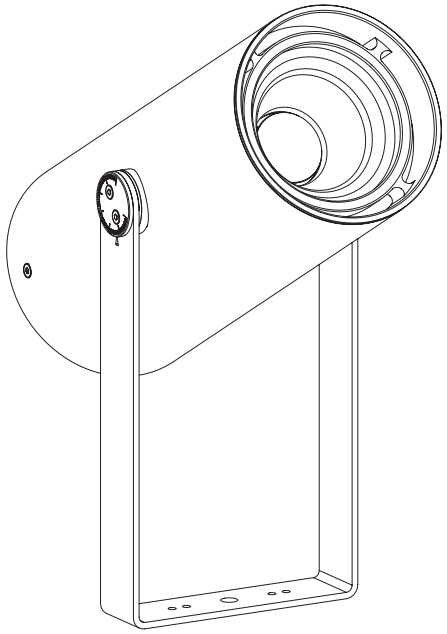
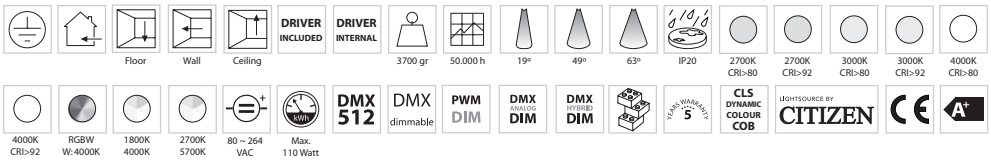
INDEX





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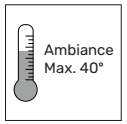
SAFETY INFORMATION

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

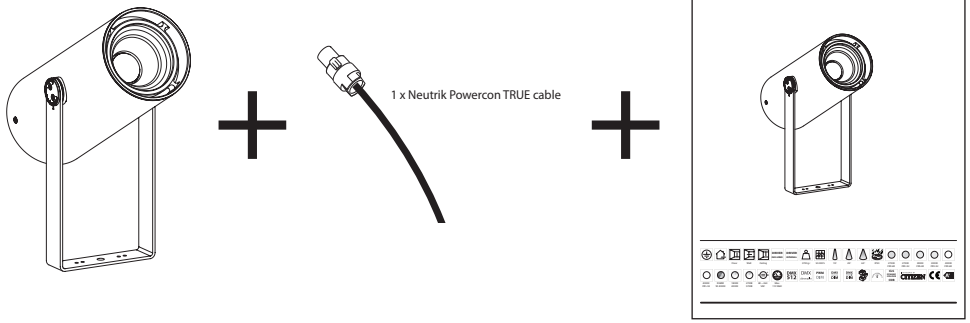


Don't modify or install genuine parts on this product

Don't install in a flammable or explosive area

Warning! Some surfaces can be hot

CONTENT



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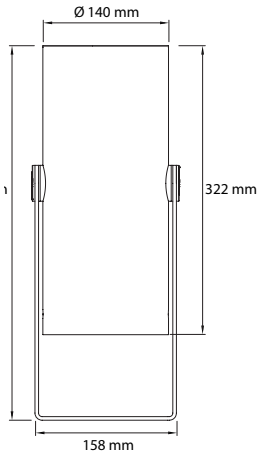
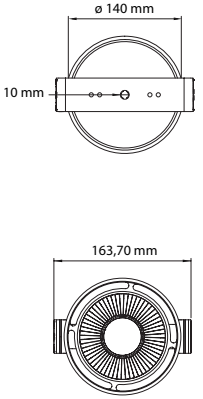
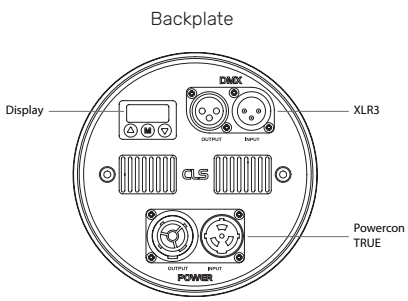
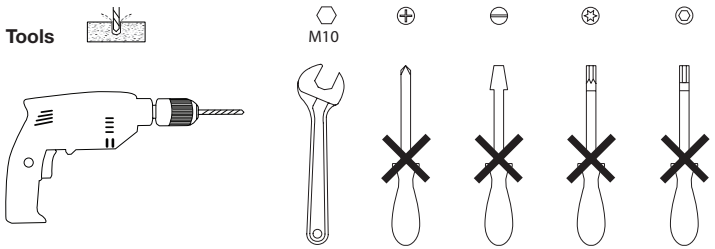
TECHNICAL







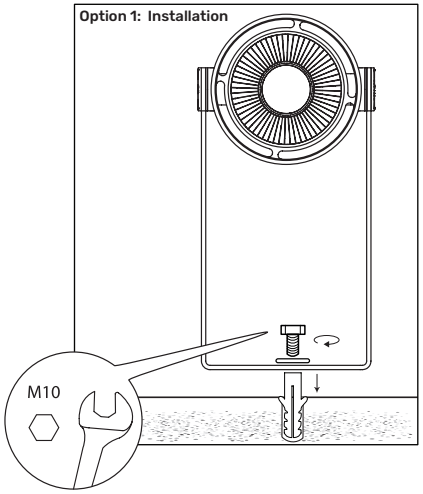
Tools

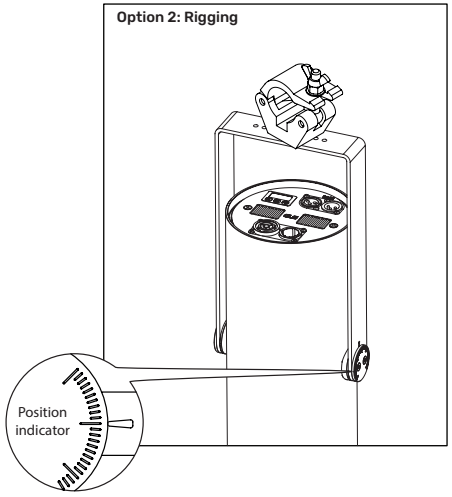


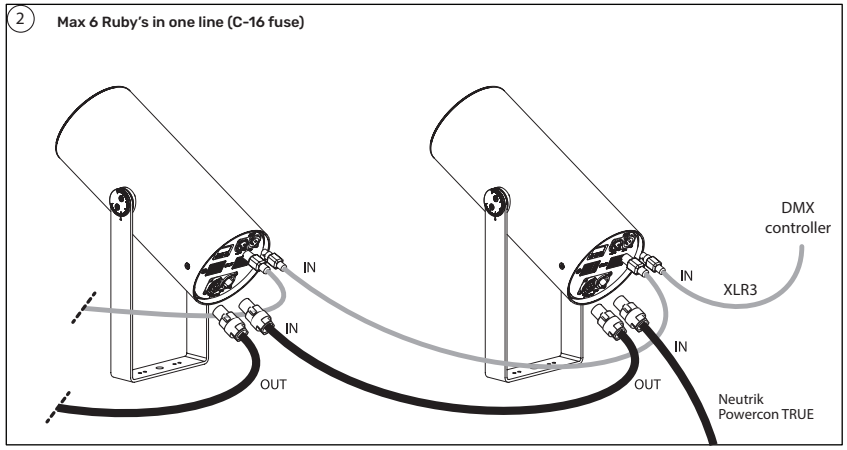
SPECIFICATIONS

LED:	1 x Citizen or CLS DCC
Available colours:	CRI>80: 2700K, 3000K, 4000K
	CRI>92: 2700K, 3000K, 4000K
Colour changing:	RGBW (W: 4000K)
Tunable White:	1800K-4000K or 2700K-5700K
Lenses:	19°, 49°, 63°
Power supply:	80 ~ 264 VAC
Power consumption:	9 serie: max. 110 Watt
Connection:	Power: Neutrik Powercon TRUE
	DMX: XLR3
Housing:	Anodised aluminium black or white coated
Weight:	3700 gr
IP value:	IP20
Measurements:	417 x 163,7 x 140 mm (hxbxø)
Ambient temperature:	-10° C till +40° C

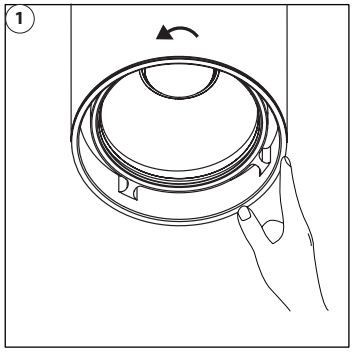
INSTALLATION

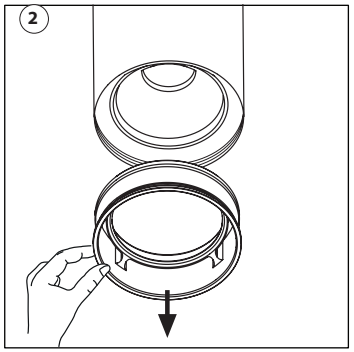


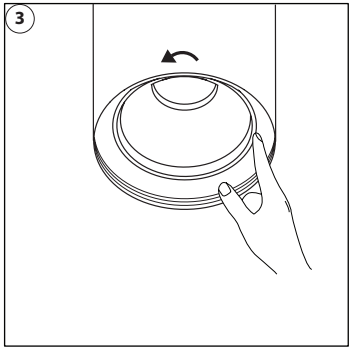


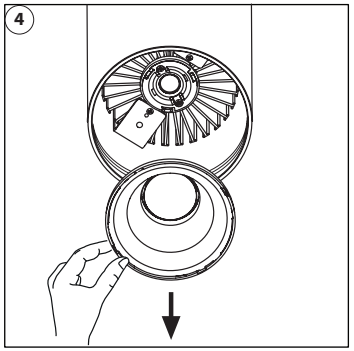


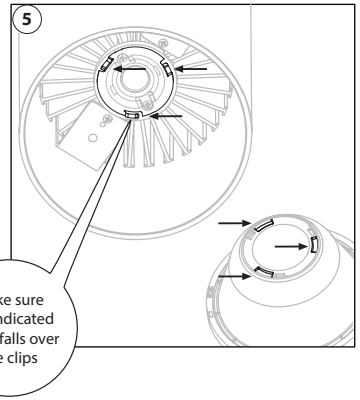
REFLECTOR REPLACEMENT

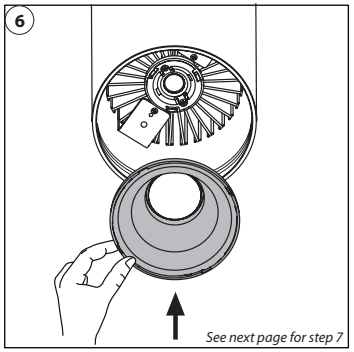




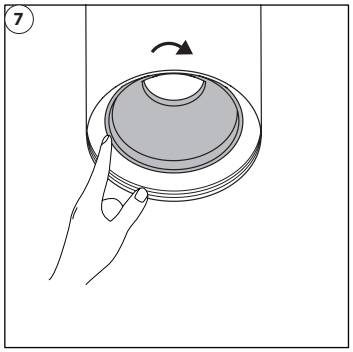


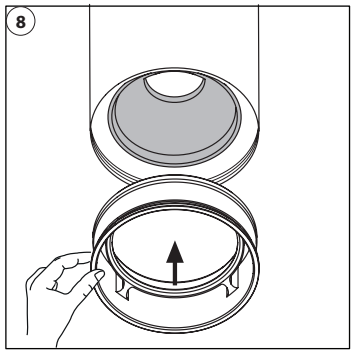


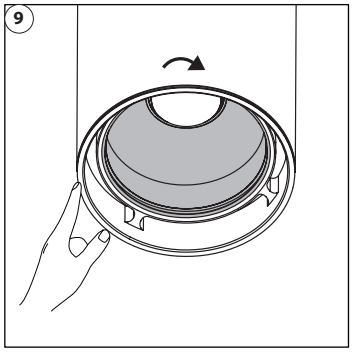


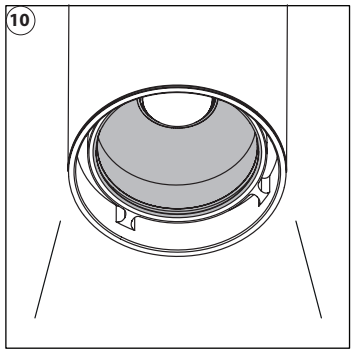


REFLECTOR REPLACEMENT





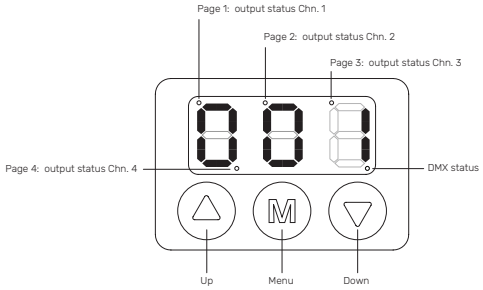




STATUS DISPLAY

The Ruby has a display which is used to interface with the user. When the Ruby is powered the DMX address is showed. When DMX is active the DMX status dot is on. With no DMX signal the dot is flashing.

By pressing the menu button you can scroll through the different status pages.
The status pages dots will indicate which page is displayed. The status pages will show the output value of the outputs 1-4 from 0 (min) to 255 (max).

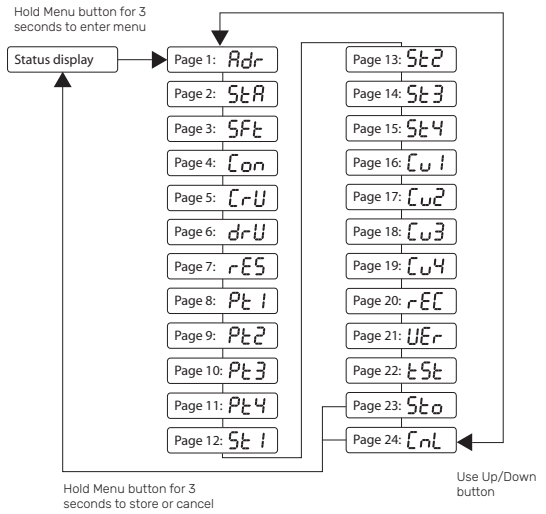


CONFIGURATION

The Ruby must be configured to fit the application it is used for.
To make configuration easy the Ruby has a user friendly menu interface.

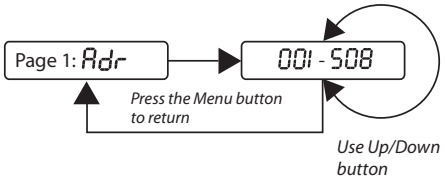
Menu description

When the Ruby is powered the status display is shown with the DMX address. To enter the menu press and hold the menu button for 3 seconds. The Ruby will enter menu interface on page 1. The menu interface holds different pages. Use the up and down button to scroll through the pages. To select the page press the menu button. In each page the settings can be adjusted. To leave a page press the menu button again.



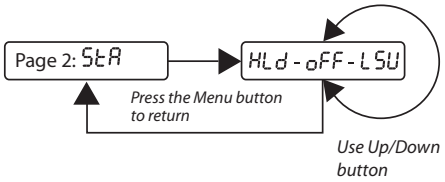
Page 1: DMX addressing
In this page you can adjust the DMX address of the LDC-41. Use the up and down button to adjust the value. Hold down the up or down button to scroll fast. When DMX address is selected press the menu button to return to the main menu.

Default DMX address: 1

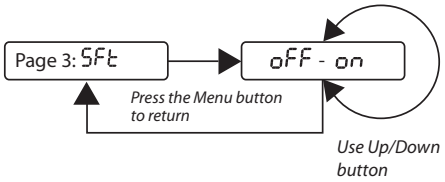


Page 2: Static behavior
Static behavior when no DMX is connected.

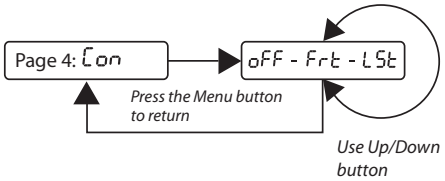
"HLd" = Hold last data
"oFF" = Output off
"LSv" = Load static values



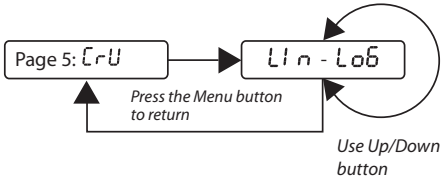
Page 3: Soft dim option
"oFF" = softdim off
"on" = softdim on



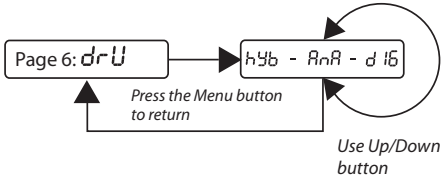
Page 4: Master control configuration
Master used for dim channel;
"oFF" = Master function off
"Frt" = Master is first channel
"LSt" = Master is last channel



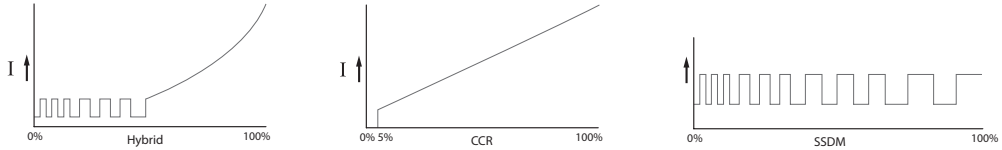
Page 5: Dim curve used
"Lin" = lineair
"LoG" = logarithmic



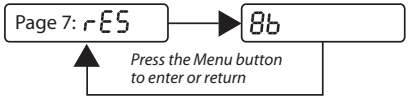
Page 6: Output control
"hYb" = Hybrid
"aNa" = Analog (**C**onstant **C**urrent **R**eduction)
"DiG" = Digital (**S**tochastic **S**ignal **D**ensity **M**odulation)



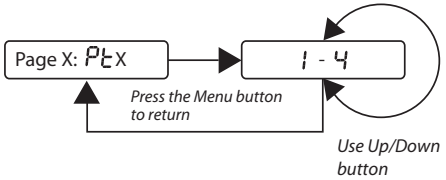
Output control dimming charts



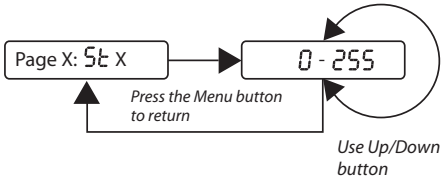
Page 7: Resolution
Control resolution 8 Bit.
1 DMX channel per output.



Page 8-11: Patch
To adjust the Patch Value of an output channel enter the corresponding page and change the value. The Patch value can be adjusted from 0 – 4. To return to the main menu press the menu button.

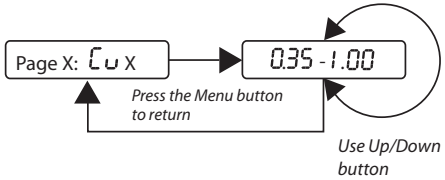


Page 12-15: Static Value
To adjust the Static Value of an output channel enter the corresponding page and change the value. The Static value can be adjusted from 0 – 255. To return to the main menu press the menu button.

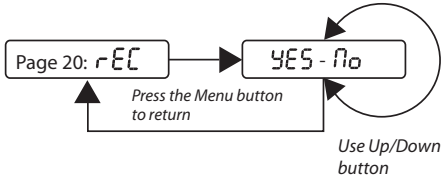


Page 16-19: Current Setting configuration
To adjust the current of an output channel enter the corresponding page and change the value. The current can be adjusted from 350 – 1000mA in steps of 50mA. To return to the main menu press the menu button.

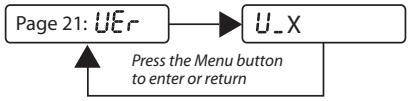
Default Current configuration: 700mA for each channel



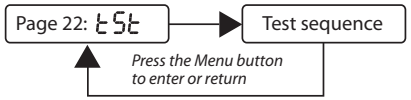
Page 20: Record Static value
"YES" = Will copy the DMX values
"No" = Return without recording



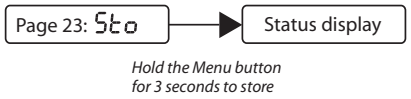
Page 21: Firmware version
Current firmware version on the LDC-41.



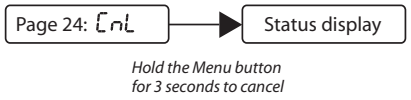
Page 22: Test loop
Entering this page will result in a test loop on the outputs of the LDC-41. This enables the user to test the connections without the need of an DMX controller. To end the test sequence and return to the main menu press the menu button.



Page 23: Store configuration
After all changes are made the setting need to be stored before they become active. To store the settings go to the store page and press and hold the menu button for 3 seconds. The settings are stored and you will return to the status display.



Page 24: Cancel configuration
When you have made changes but you don't want to store them you can cancel the settings. Go to the cancel page and press and hold the menu button for 3 seconds. The settings are not stored and you will return to the status display.



LIST OF SYMBOLS

Protection class
One, two or three

Application area
Indoor or outdoor

Application area
Floor, wall or ceiling

Swivel
Fixture is horizontally rotatable, indicated in degrees

Swivel
Fixture is vertically rotatable, indicated in degrees

Multiple connection
Daisychain connectivity

Installation depth
In centimeters

Installation size
In centimeters

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/cm²

Lifespan
Of the light source in hours

Lenses
Availble lenses, indicated in degrees

Performance Zoom
Adjustable beam angle

LEDs
Kind of LED used in the fixture

Plug & play
Easy connection using the SmartConnect system

IP value
Ingress Protection classifies the degrees of protection provided against the intrusion of the product

Colour changing
RGB, RGB-W, RGB-A, AWB or Tunable White

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

Colour
Available colours;
Amber, blue, red or green

White colour temperature
In different Kelvin values;
Cold white, neutral white, warm white or extra warm white

Curve
Minimal bending curve in centimeters

Cutting length
Indicated by the cutting marks

LED pitch
Pitch between the LEDs in millimeters

Power supply
In VDC, VAC or milliAmpere

Power consumption
In VA or Watt

Dimmable
1-10 Volt, Phase, individual, DMX dimmable or DALI

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

Bluetooth controlled
By Casambi

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

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

Energy label

Lightsource
Equipped with a CLS, Citizen or a Xicato LED module