

IIZI-Drive CC2



The 2ch. Constant Current LED driver has a versatile design and utilises hybrid dimming techniques, offering superb brightness control down to 0,0%.

This high-power LED driver can drive up to 40 Watts per channel, with a current that is user selectable from 150mA to 1050mA, in 50mA steps.

The LED driver allows control via an onboard IIZI-Link interface or DMX-512 interface.

Features



High output power
Max 40W

Precise current selection
50mA steps

Wide current range
150mA ~ 1050mA

Remote configuration
With IIZI-Manager software

Technical specifications

Power

Input voltage:	48VDC
Output voltage:	Max. 40VDC
Output power:	2x 40W
Channels:	2
Current per channel:	150mA ~1050mA (adjustable in steps of 50mA)

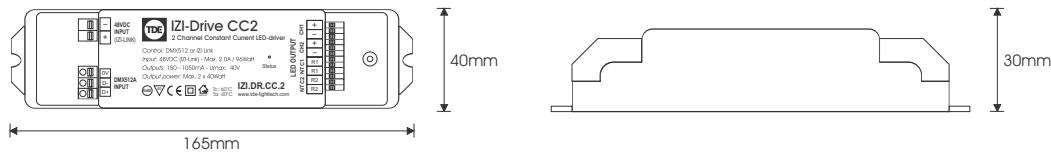
Control

Control input:	IIZI-Link / DMX-512 - 1990 Galvanically isolated
Additional input:	2 x NTC 10KΩ / 1 x 10KΩ potentiometer

Miscellaneous

Housing:	Desktop ABS plastic
Input connector:	Print connector
Screw terminal input power:	Max 2,5mm²
Terminal block control:	Max 1,5mm²
Terminal block led output:	Max 1,5mm²

Dimensions



Order Code

IIZI.DR.CC.2 - IIZI-Drive CC2; two channel constant current LED driver;

Wiring diagram



LED indication

Identify mode

The Identify mode on the IIZI-manager allows identification of each individual fixture/interface.

Firmware update

A firmware update can be done through the IIZI-manager

Status	LED	Behaviour
Power ok, Data reception	Green	Blink
Power ok, No data	Red	On
Over temperature	Red	Blink
Low voltage	Red	Blink
Firmware update (IIZI-manager)	Red	Blink
Identify	Red / Green	Toggle

Configuration

The IIZI-Drive CC2 can be configured with the IIZI-manager Software tool and the IIZI-Link programmer cable.

The following parameters can be adjusted:

Parameters:	Value options	Default value
DMX-address:	1~512 (dependant on Device Mode)	1
Device-modes:	M1~M7 + M16 (stand alone mode)	M1
Current setting:	150mA~1050mA in steps of 50mA	150mA
PWM frequency:	Hybrid-mode / PWM-only / Analog-only modez	Hybrid-mode
DMX fail start:	Off / Max / Wave	Max
DMX fail operation:	Off / Max / Wave / Hold	Off

Next to the configuration of the driver with the IIZI-manager, parameters such as internal temperature led driver, Supply voltage, current consumption and Software version can be monitored.

User modes

M1 - Single Channel mode:

DMX1 -> Ch1

DMX1 -> Ch2

NTC1 = Temperature Sensing

NTC2= Optional Current Override

M2 - Dual Channel + Master Mode

DMX1 -> Master

DMX2 -> Ch1

DMX3 -> Ch2

NTC1 = Temperature Sensing

NTC2 = Optional Current Override

M3 - Dual Channel Mode

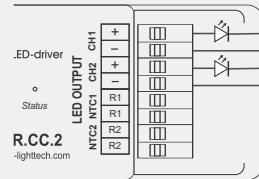
DMX1 -> Ch1

DMX2 -> Ch2

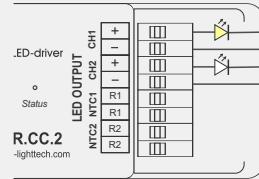
NTC1 = Temperature Sensing

NTC2 = Optional Current Override

Connection options



Single colour



Tunable white

User modes (Continued)

		Current settings
M4 -	Dual Channel mode	Current
	DMX1 -> Ch1	0 = 150mA
	DMX2 -> Ch2	1 = 200mA
	NTC1 = Temperature Sensing Ch1	2 = 250mA
	NTC2 = Temperature Sensing Ch2	3 = 300mA
		4 = 350mA
M5 -	Dual Channel Tunable White Mode	5 = 400mA
	DMX1 -> Intensity	6 = 450mA
	DMX2 -> Color	7 = 500mA
	NTC1 = Temperature Sensing	8 = 550mA
	NTC2 = Optional Current Override	9 = 600mA
		10 = 650mA
M6 -	Single Channel Tunable White Mode	11 = 700mA
	DMX1 -> Intensity/Color, Halogen like	12 = 750mA
	NTC1 = Temperature Sensing	13 = 800mA
	NTC2 = Optional Current Override	14 = 850mA
		15 = 900mA
M7 -	Single Channel Tunable White Analog Control Mode, No DMX	16 = 950mA
	NTC1 = Temperature Sensing	17 = 1000mA
	NTC2 = Analog Control by 10k Potentiometer	18 = 1050mA
M16 -	Analog Control Mode, No DMX	
	NTC1 = Temperature Sensing	
	NTC2 = Analog Control by 10k Potentiometer	

PWM Modes

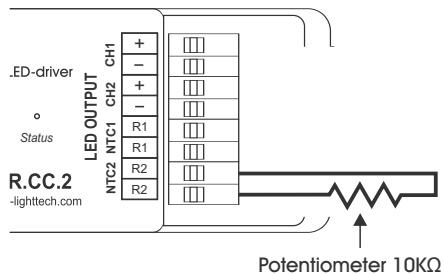
- 0 = Hybrid Dimming Mode
 1 = PWM Dimming only
 2 = Analog Dimming only

For more information about configuring with the I^{ZI}-manager, see manual of the I^{ZI}-manager

Stand alone

When configured in stand alone mode (M16) a 10KΩ Potentiometer can be connected on to NTC2 terminal block.

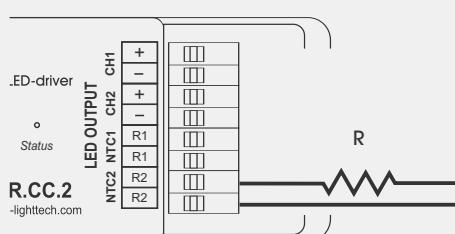
The 10KΩ Potentiometer controls the intensity of all channels 1 through 4 simultaneously .



Current override

If configuring with the IIZI-Link is not wanted or possible, the current output can be configured by adding an external resistor on the NTC2 terminal.

The below table shows the current output with the corresponding resistor value.



Mode	Current	Resistor (R)	Mode	Current	Resistor (R)	Mode	Current	Resistor (R)
0 =	150mA	0 Ohm	7 =	500mA	1500 Ohm	14 =	850mA	5600 Ohm
1 =	200mA	180 Ohm	8 =	550mA	1800 Ohm	15 =	900mA	6800 Ohm
2 =	250mA	390 Ohm	9 =	600mA	2200 Ohm	16 =	950mA	8200 Ohm
3 =	300mA	560 Ohm	10 =	650mA	2700 Ohm	17 =	1000mA	10000 Ohm
4 =	350mA	820 Ohm	11 =	700mA	3300 Ohm	18 =	1050mA	12000 Ohm
5 =	400mA	1000 Ohm	12 =	750mA	3900 Ohm			
6 =	450mA	1200 Ohm	13 =	750mA	4700 Ohm			