



The IZI-Drive 4ch. 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 IZI-Link interface and DMX-512 interface.



Features

High output power
Max 40W

Precise current selection
50mA steps

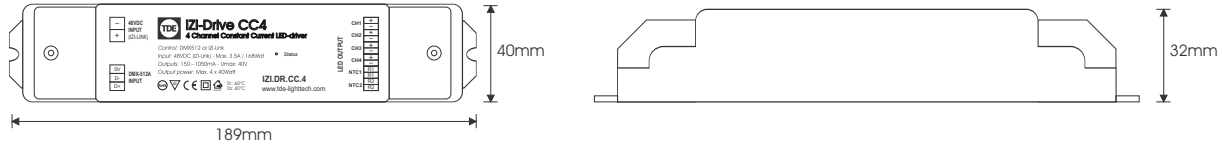
Wide current range
150mA ~ 1050mA

Remote configuration
With IZI-Manager software

Technical specifications

Power	Input voltage: Output voltage: Output power: Channels: Current per channel:	48VDC Max. 40VDC 4 x 40W 4 150mA ~ 1050mA (adjustable in steps of 50mA)
Control	Control input: Additional input:	IZI-Link / DMX-512 - 1990 Galvanically isolated 2 x NTC 10KΩ / 1 x 10KΩ potentiometer
Miscellaneous	Housing: Input connector: Screw terminal input power: Terminal block control: Terminal block led output:	Desktop ABS plastic Print connector Max 2,5mm ² Max 1,5mm ² Max 1,5mm ²

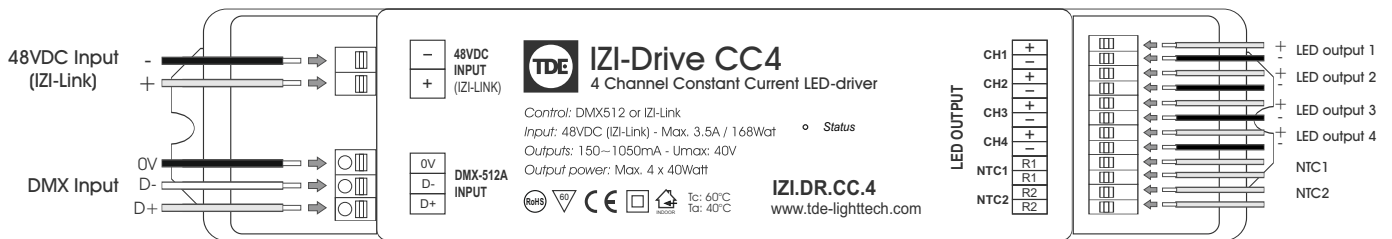
Dimensions



Order Code

IZI.DR.CC.4 - IZI-Drive CC4; four channel constant current LED driver;

Wiring diagram



LED indication

Identify mode

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

Firmware update

A firmware update can be done through the IZI-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 (IZI-manager)	Red	Blink
Identify	Red / Green	Toggle

Configuration

The IZI-Drive CC4 can be configured with the IZI-manager Software tool and the IZI-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 ~ M8 + 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 IZI-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
- DMX1 -> Ch3
- DMX1 -> Ch4
- NTC1 = Temperature Sensing
- NTC2 = Optional Current Override

M2 - 4 Channel + Master Mode

- DMX1 -> Master
- DMX2 -> Ch1
- DMX3 -> Ch2
- DMX4 -> Ch3
- DMX5 -> Ch4
- NTC1 = Temperature Sensing
- NTC2 = Optional Current Override

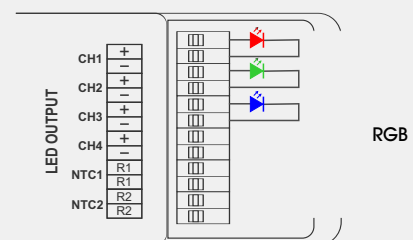
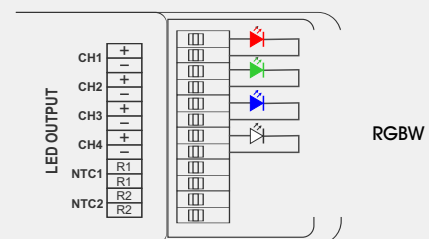
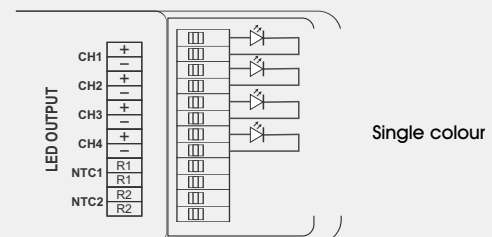
M3 - 4 Channel Mode

- DMX1 -> Ch1
- DMX2 -> Ch2
- DMX3 -> Ch3
- DMX4 -> Ch4
- NTC1 = Temperature Sensing
- NTC2 = Optional Current Override

M4 - 4 Channel, DualTemp Mode

- DMX1 -> Ch1
- DMX2 -> Ch2
- DMX3 -> Ch3
- DMX4 -> Ch4
- NTC1 = Temperature Sensing Ch1/2
- NTC2 = Temperature Sensing Ch3/4

Connection options

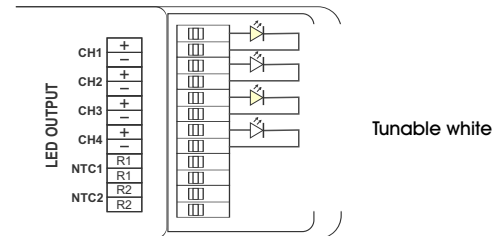




User modes (Continued)

- M5 - Tuneable White Mode single control**
DMX1 -> Intensity
DMX2 -> Colour
NTC1 = Temperature Sensing
NTC2 = Optional Current Override
- M6 - Warm dimming mode single control**
DMX1 -> Intensity/Colour, Halogen curve
NTC1 = Temperature Sensing
NTC2 = Optional Current Override
- M7 - Tuneable white mode dual control**
DMX1 -> Intensity Ch1/2
DMX2 -> Colour Ch1/2
DMX3 -> Intensity Ch3/4
DMX4 -> Colour Ch3/4
NTC1 = Temperature Sensing Ch1/2
NTC2 = Temperature Sensing Ch3/4
- M8 - Warm dimming mode dual control**
DMX1 -> Intensity/Colour, Halogen curve Ch1/2
DMX2 -> Intensity/Colour, Halogen curve Ch3/4
NTC1 = Temperature Sensing Ch1/2
NTC2 = Temperature Sensing Ch3/4
- M16 - Analog Control Mode, No DMX**
NTC1 = Temperature Sensing
NTC2 = Analog Control by 10k Potmeter

Connection options (Continued)



Current settings

0 =	150mA
1 =	200mA
2 =	250mA
3 =	300mA
4 =	350mA
5 =	400mA
6 =	450mA
7 =	500mA
8 =	550mA
9 =	600mA
10 =	650mA
11 =	700mA
12 =	750mA
13 =	800mA
14 =	850mA
15 =	900mA
16 =	950mA
17 =	1000mA
18 =	1050mA

PWM modes

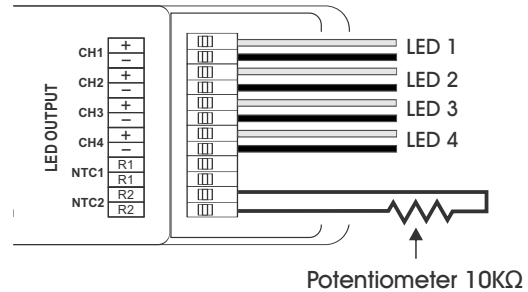
0 =	Hybrid Dimming Mode
1 =	PWM Dimming only
2 =	Analog Dimming only

For more information about configuring with the IZI-manager, see manual of the IZI-manager

Stand alone

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

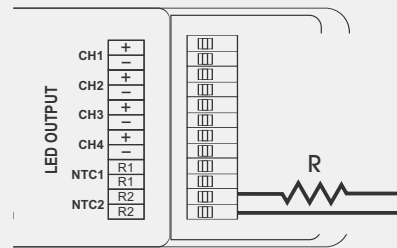
The 10K Ω Potentiometer controls the intensity of all channels 1 through 4 simultaneously .



Current override

If configuring with the IZI-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			

Connection diagram for RGBW or Mini moodspot fixtures (T568B)

Please note that the TDE-lighttech RGBW fixtures (Like the Cursa / Castor / Canopus RGBW spots, RGBW800 spots and Mini-Moodspots) are constant current (CC) led spots.

Special RGBW-splitters are available for connecting RGBW/Mini-Moodspots in series.

Up to 12 RGBW- or Mini-Moodspots can be connected in series on one IZI-Drive CC4 LED-driver.

Maximum Current Settings for the RGBW- and Mini-Moodspots is 700mA per LED connection

Wiring	RGBW-LED	Mini-Moodspot	IZI-Drive Cc4
1 BR/W	(+) Red	(+) Warmwhite	Ch1 (+)
2 BR	(-) Red	(-) Warmwhite	Ch1 (-)
3 B/W	(+) Green	(+) Coolwhite	Ch2 (+)
4 G	(-) Green	(-) Coolwhite	Ch2 (-)
5 G/W	(+) Blue	(+) Warmwhite	Ch3 (+)
6 B	(-) Blue	(-) Warmwhite	Ch3 (-)
7 O/W	(+) White	(+) Coolwhite	Ch4 (+)
8 O	(-) White	(-) Coolwhite	Ch4 (-)