

General

Product Type	Constant Voltage Driver
Length (mm)	180
Width (mm)	122
Height (mm)	39
Housing Material	Metal
Mounting	Surface mounted
Weight (g)	730

Electronics

DC
12 ~ 24V DC
12 ~ 24 V DC
3000
48
1152W @ 24V
16

Lighting

Color Range	RGBW	

Control

Output Signal	PWM-CV
Control	DMX
RDM Support	Yes
Dimming Range	0~100%
Driver Configuration	Digital
Number of Channels	16

Environmental

Operating Temperature	-30 ~ +65 °C
Ingress Protection	IP20

CE IP20 5 year warranty

Disclaimer

Due to the technical evolution and improvement of our products, the data provided in this document may be updated on a regular basis, and as such, confirmation of this information is strongly recommended prior to the order process. OneEightyOne is not responsible for any discrepancies in this document following changes in our products. We reserve the right to make technical changes to our products and to change information, at its sole discretion, without notice.

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DMX512 DECODER LT-916-OLED



OLED display 8 bit / 16 bit 3 kinds of DMX interfaces Dimming Curve: 0.1~9.9 Short circuit / Over current protection



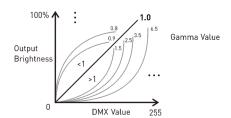




www.ltech-led.com

Product Introduction:

- 1. Designed for Hi-power multiple channels application, 16 channels output, and Max. 3A current per channel, up to 1152W output power.
- 2. Easy operation with OLED screen and touch buttons.
- 3. 4 kinds of mode optional: single color, color temperature, RGB, RGBW.
- 4. Support 3 kinds of DMX ports with signal isolation function: 5-pin XLR, RJ45 and green terminal (with signal amplifier function).
- 5. With RDM remote management protocol, the operations can be completed via the RDM master console, such as parameters browsing & setting, DMX address setting, equipment recognition, etc.
- 6. With photoelectric isolation function.
- 7. With short circuit protection and over current protection, as well as warning function when fault.
- 8. With fast self-testing function.
- 9. 16bit (65536 levels) / 8bit (256 levels) grey level optional.
- 10. Multiple dimming curve (0.1~9.9) optional.















Protection



Protection





Technical Specs:

Model: IT-916-01 FD Input Signal : DMX512/RDM Input Voltage : 12~24Vdc

Current Load : 3A × 16CH Max 48A

Output Power: [0~36W...72W] × 16CH Max. 1152W DMX Interface : 5-pin XLR, RJ45, Green terminal

Dimming/CT/RGB/RGBW Control Mode:

Dimming Curve : 0.1~9.9

Grey Level: 8bit (256 levels) / 16bit (65536 levels)

Photoelectric Isolation :

Protection: Short circuit / Over current

Working Temperature : -30°C~65°C

Dimensions: I 180×W122×H39mm Package Size : L193×W127×H41mm

Weight (G.W.): 730g

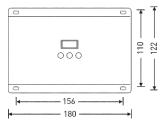






Product Size:

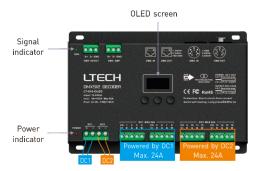
Unit: mm





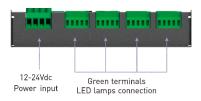
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Main Component Descripition:





DMX/RDM input & output







OLED Screen Interface:



Press "M" key, switch entries. Long press "M" key, back to previous page. Press "^" or "v" key, parameter adjustment. Exit: back to previous page.

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4. Grey Level



Press "^" or "v" key to choose. Optional: 8bit

> 16bit (choose it if master controller support this function)

1 DMX Address Setting



Press "^" or "v" key to set DMX address. Range: 001~512

Main page

5. Dimming Curve



Press "^" or "v" key to choose.

Optional: Standard Linear 0.1~9.9

It is recommended to use standard, 0.1-9.9 is for special requirements.

2. PWM Frequency



Press "^" or "v" key to choose.



human eye is comfortable. * It is recommended to use standard.

3. Mode



Press "^" or "v" key to choose.

Optional : Dim CT RGB **RGBW** 6. Enhance Dimming

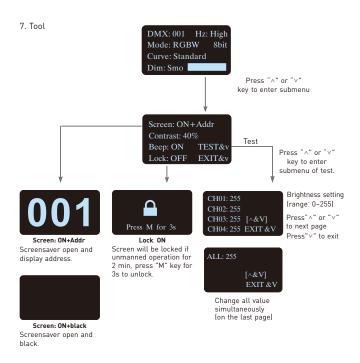


Press "^" or "v" key to choose.

Optional: Std (standard) Smo (smooth)

* It is recommended to use standard.

Smo: This option with smooth processing, realize the dimming flicker-free and dynamic effects more downy.

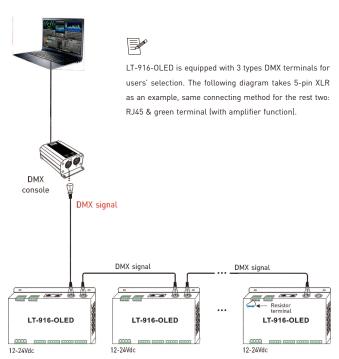


Fast self-testing function: press "^"or "v" keys simultaneously for 2-3 seconds under any page, decoder will enter self-testing function.

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Wiring Diagram:

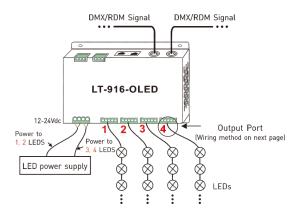
1. DMX console connection:

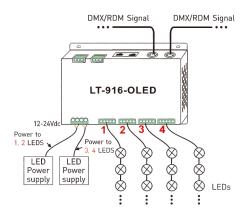


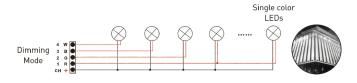
If the recoil effect occurs because of longer signal line or bad line quality, please try to connect 0.25W 90-120Ω terminal resistor at the end of each line.

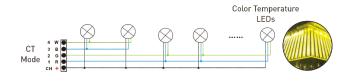
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2. Connecting LED lights:

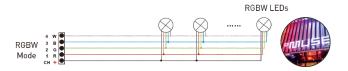












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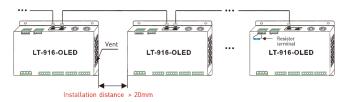
3. The connection diagram of 3 kinds of DMX/RDM terminals:



5-pin XLR Connected in Parallel



Green Terminal Connected in Parallel



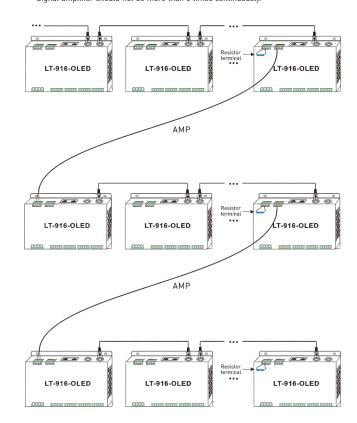
RJ45 Connected in Parallel

These 3 terminals can be connected in a mixed way.

*Installation Attention: please reserve enough ventilation distance between decoders (>20mm), be sure not to block the vent, or will affect lifetime of decoder for poor heat dissipation.

4. The connection diagram of AMP signal amplifier terminal:

Connecting with green terminal or an extra amplifier will be needed when more than 32 decoders are connected or use overlong signal wire(as shown below). Signal amplifier should not be more than 5 times continuously.





Address setting table

Mod	e	DIM	СТ	RGB	RGBW	Mode		DIM	СТ	RGB	RGBW
Addre Quant		4	8	12	16	Address Quantity		8	16	24	32
Resolu	tion	8bit	8bit	8bit	8bit	Resolution		16bit	16bit	16bit	16bit
Channel	1	001	001	001	001		1	001 002	001 002	001 002	001 002
	2	001	002	002	002		2	001 002	003 004	003 004	003 004
	3	001	001	003	003		3	001 002	001 002	005 006	005 006
	4	001	002	003	004		4	001 002	003 004	005 006	007 008
	5	002	003	004	005		5	003 004	005 006	007 008	009 010
	6	002	004	005	006	Channel	6	003 004	007 008	009 010	011 012
	7	002	003	006	007		7	003 004	005 006	011 012	013 014
	8	002	004	006	008		8	003 004	007 008	011 012	015 016
	9	003	005	007	009		9	005 006	009 010	013 014	017 018
	10	003	006	008	010		10	005 006	011 012	015 016	019 020
	11	003	005	009	011		11	005 006	009 010	017 018	021 022
	12	003	006	009	012		12	005 006	011 012	017 018	023 024
	13	004	007	010	013		13	007 008	013 014	019 020	025 026
	14	004	008	011	014		14	007 008	015 016	021 022	027 028
	15	004	007	012	015		15	007 008	013 014	023 024	029 030
	16	004	008	012	016		16	007 008	015 016	023 024	031 032