

Features

- 24 channels constant voltage output, Max. 5A current per channel, up to 2880W output power.
- Master & decoder mode, RDM function.
- Easy operation with OLED display and 4 buttons.
- DIM/CCT/RGB decoding mode selectable.
- PWM frequency 500/2000/8000/16000Hz selectable.
- 16bit (65536 levels) /8bit (256 levels) grey level selectable.
- Output dimming curve gamma value 0.1-9.9 selectable.
- Stand-alone RGB mode and 24 channel dimmer mode selectable, work as DMX master(8 bit) to control other decoders.
- Built-in 10 RGB programs, speed and brightness adjustable.
- Comply with the DMX512 standard protocols.
- DMX signal optoelectronic isolation / amplify.
- Over-heat / Over-load / Short circuit protection, recover automatically.
- With fast self-testing function.

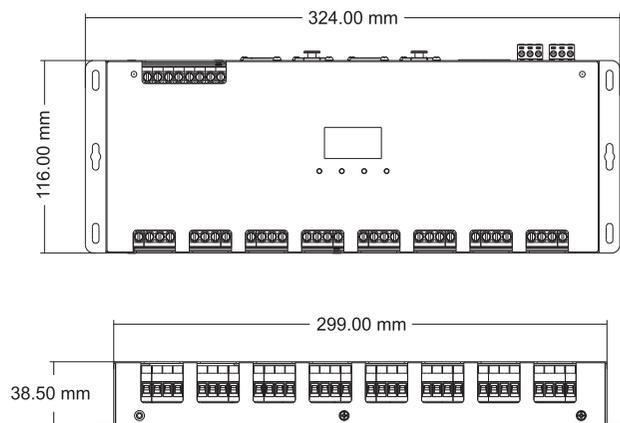


CE RoHS

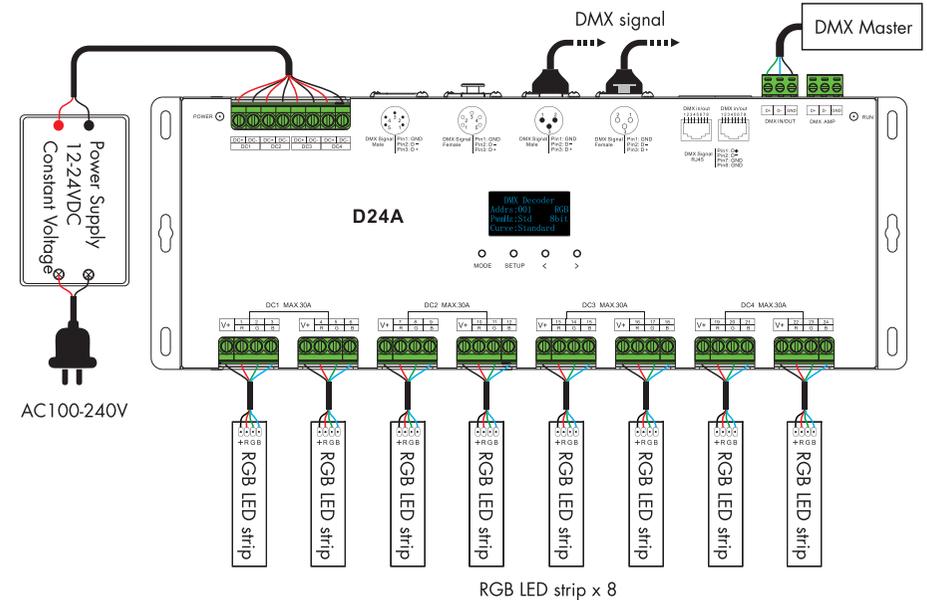
Technical Parameters

Input and Output		Environment		Safety and EMC	
Input voltage	12-24VDC	Operation temperature	Ta: -30°C ~ +55°C	EMC standard	EN IEC 55015/ EN IEC 61547
Input current	120.5A	Case temperature (Max.)	Tc: +85°C	Safety standard	EN 61347-1/-2 EN 62493
Output voltage	24 x [12-24]VDC	IP rating	IP20	Certification	CE RoHS
Output current	24CH, 5A/CH	Package		Warranty	
Output power	24 x [60-120]W	Size	L335xW135xH46mm	Warranty	5 years
Output type	Constant voltage	Gross weight	1.3kg		

Mechanical Structures and Installations



Wiring Diagram



Note:

1. Connecting with green terminal (DMX AMP) or an extra amplifier will be needed when more than 32 decoders are connected, or use overlong signal line, signal amplification should not be more than 5 times continuously.
2. 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 DMX signal line.
3. When the 24-way load is too large and the input power of one constant voltage power supply is insufficient, multiple constant voltage power supplies can be used. Up to 4 constant voltage power supplies can be connected as power inputs, each power supply can be used to supply 8 loads respectively.

OLED Screen Interface



Short press MODE key, switch between DMX decoder mode, Dimmer mode and RGB controller mode.
Short press SETUP key, enter parameter setting state, and switch between multiple parameter item.
press < or > key for parameter adjustment.
long press SETUP key or wait 10s to quit parameter setting state.
Note: In addition to manual button settings, the above system parameters can also be configured via the RDM function.
Long press M & > key for 2s, enter fast self-testing.
Long press < & > key for 2s, restore factory default parameter.

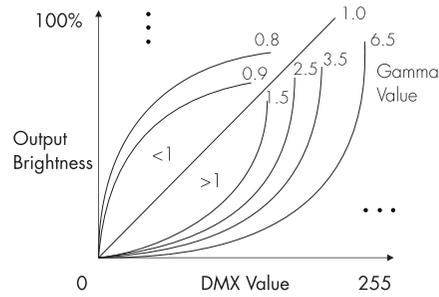
DMX decoder mode



DMX decode start address: 001~512
DMX decode mode: DIM (1CH single color)
CCT (2CH color temperature)
RGB (3CH)

Output PWM frequency:

- Std (2KHz)
 - High (8KHz)
 - Mid (500Hz)
 - Supr (16KHz)
- Higher PWM frequency, will cause lower output current, higher power noise, but more suitable for camera(No flickers for video).



Grey level:

- 8bit
- 16bit (choose it if the DMX master support 16 bit)

Output dimming curve(Only valid for 8bit Grey level):

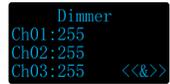
- Standard (Gamma 1.6)
- linear
- Gamma0.1-9.9

It is recommended to use standard, 0.1-9.9 is for special requirements, long press < or > key to change 0.1-9.9.

Output when no DMX signal input:

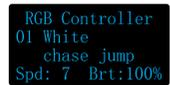
- No DMX: Set to keep latest DMX data output (Freeze) or output default brightness (Def out) when no DMX signal is input.
- DefOut: Set the default output brightness (0-255).

DMX master mode as 24 channel dimmer



Each channel brightness setting: Range: 0-255 (0-100%)
 <<&>>: press < or > key to switch between previous or next page, each page 3 channel.

DMX master mode as RGB controller



Dynamic RGB mode: 10 kinds
 Mode speed: 1-10 level, Level 10 fastest speed
 Mode brightness: 10%-100%

Dynamic RGB mode list:

No.	Name
01	White chase jump
02	White synchronous fade
03	White chase fade
04	Color synchronous jump (Red, Orange, Yellow, Green, Cyan, Blue, Purple, White)
05	Color chase jump (Red, Orange, Yellow, Green, Cyan, Blue, Purple, White)
06	Color synchronous gradual
07	Color jump gradual
08	R/G/B/W synchronous fade
09	R/G/B/W chase fade
10	All mode loop play

Address Setting Table

8bit:

Mode	DIM	CCT	RGB
Address Quantity	8	16	24
Channel	1	001	001
	2	001	002
	3	001	002
	4	002	003
	5	002	004
	6	002	004
	7	003	005
	8	003	006
	9	003	006
	10	004	007
	11	004	008
	12	004	008
	13	005	009
	14	005	010
	15	005	010
	16	006	011
	17	006	012
	18	006	012
	19	007	013
	20	007	014
	21	007	014
	22	008	015
	23	008	016
	24	008	016

16bit:

Mode	DIM	CCT	RGB
Address Quantity	16	32	48
Channel	1	001 002	001 002
	2	001 002	003 004
	3	001 002	003 004
	4	003 004	005 006
	5	003 004	007 008
	6	003 004	007 008
	7	005 006	009 010
	8	005 006	011 012
	9	005 006	011 012
	10	007 008	013 014
	11	007 008	015 016
	12	007 008	015 016
	13	009 010	017 018
	14	009 010	019 020
	15	009 010	019 020
	16	011 012	021 022
	17	011 012	023 024
	18	011 012	023 024
	19	013 014	025 026
	20	013 014	027 028
	21	013 014	027 028
	22	015 016	029 030
	23	015 016	031 032
	24	015 016	031 032

Note: even channel for micro dimming.