

24 Channel Constant Voltage DMX512 & RDM Decoder / Master

Model No.: D24A

RDM/Stand-alone function/8 bit or 16bit decode/Four PWM frequency/Multiple dimming curve/OLED display

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.

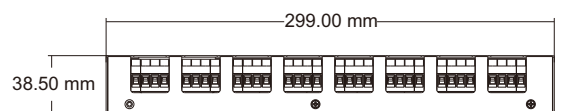
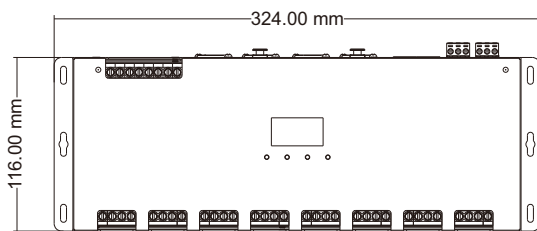


CE RoHS LVD

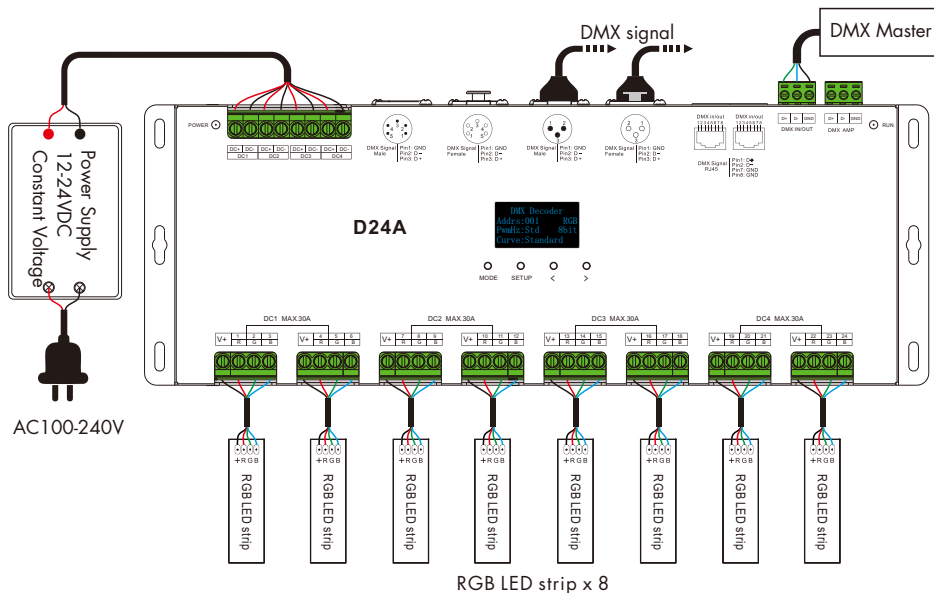
Technical Parameters

Input and Output		Safety and EMC		Environment	
Input voltage	12-24VDC	EMC standard (EMC)	EN55032:2015, EN61000-3-2:2014, EN61000-3-2:2013, EN55024 :2010/A1:2015	Operation temperature	Ta: -30°C ~ +55°C
Input current	120.5A			Case temperature (Max.)	Tc: +85°C
Output voltage	24 x (12-24)VDC			IP rating	IP20
Output current	24CH, 5A/CH	Safety standard(LVD)	EN 61347-1:2015 EN 61347-2-11:2015	Package	
Output power	24 x (60-120)W	Certification	CE, EMC, LVD	Size	1335 x W135 x H46mm
Output type	Constant voltage	Warranty		Gross weight	0.123kg
		Warranty	5 years		

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 6 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 30s to quit parameter setting state.
 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) Higher PWM frequency, will cause lower output current, higher power noise, but more suitable for camera(No flickers for video).
 Mid (500Hz)
 Supr (16KHz)

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

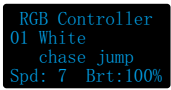
It is recommended to use standard,
 0.1-9.9 is for special requirements, long press < or > key to change 0.1-9.9.

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%

Address setting table

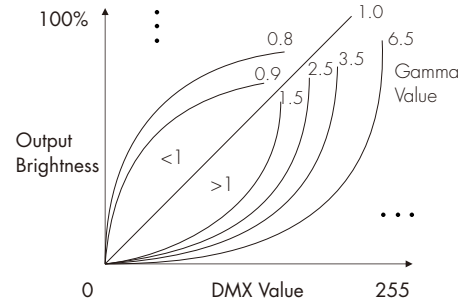
8bit:

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

16bit:

Mode	DIM	CCT	RGB
Address Quantity	16	32	48
Channel	1	001	001 001
		002	002 002
	2	001	003 003
		002	004 004
	3	001	003 005
		002	004 006
	4	003	005 007
		004	006 008
	5	003	007 009
		004	008 010
	6	003	007 011
		004	008 012
	7	005	009 013
		006	010 014
	8	005	011 015
		006	012 016
	9	005	011 017
		006	012 018
	10	007	013 019
		008	014 020
	11	007	015 021
		008	016 022
	12	007	015 023
		008	016 024
	13	009	017 025
		010	018 026
	14	009	019 027
		010	020 028
	15	009	019 029
		010	020 030
	16	011	021 031
		012	022 032
	17	011	023 033
		012	024 034
	18	011	023 035
		012	024 036
	19	013	025 037
		014	026 038
	20	013	027 039
		014	028 040
	21	013	027 041
		014	028 042
	22	015	029 043
		016	030 044
	23	015	031 045
		016	032 046
	24	015	031 047
		016	032 048

Note: even channel for micro dimming.



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