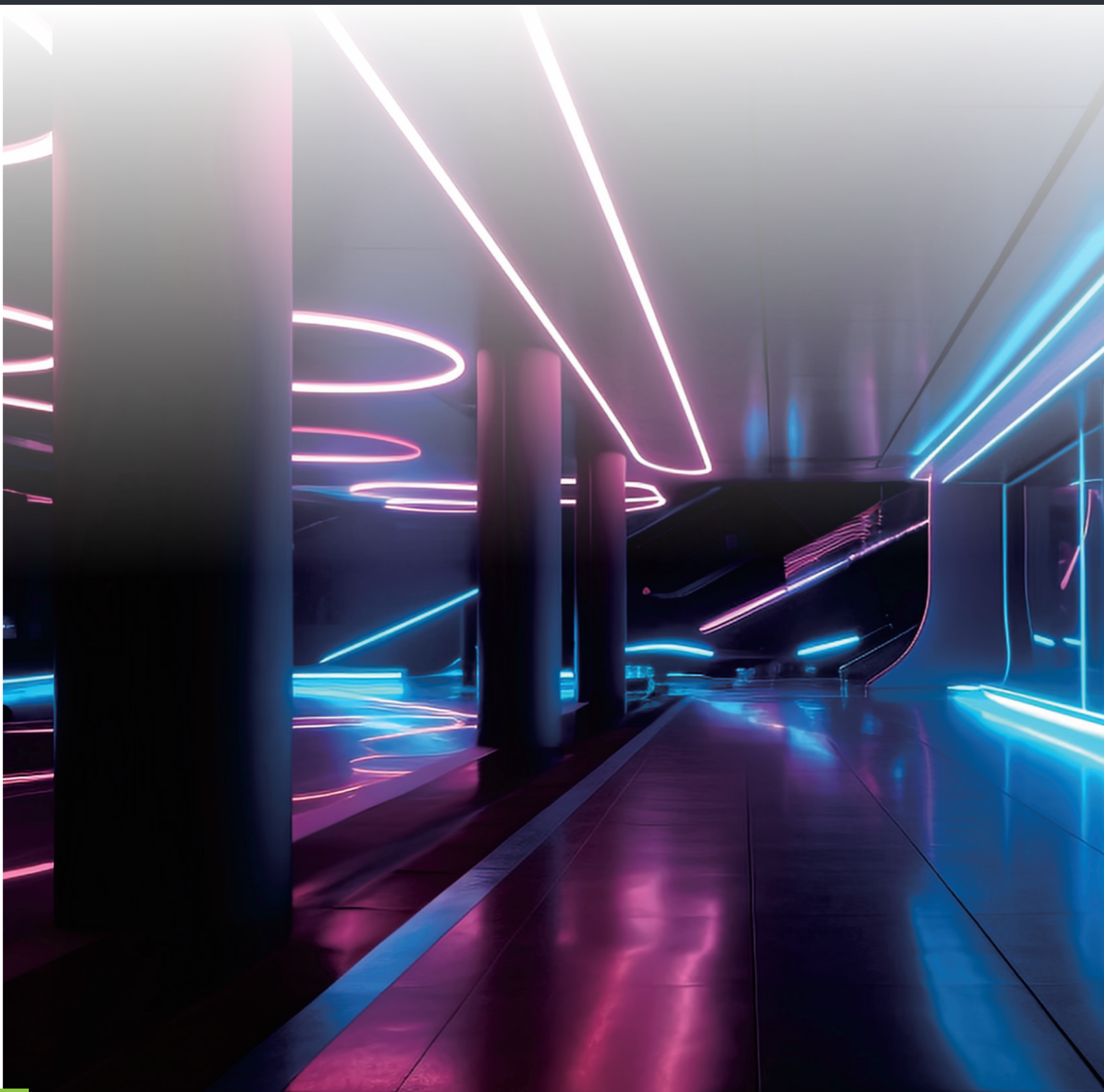


# DMX Control Series



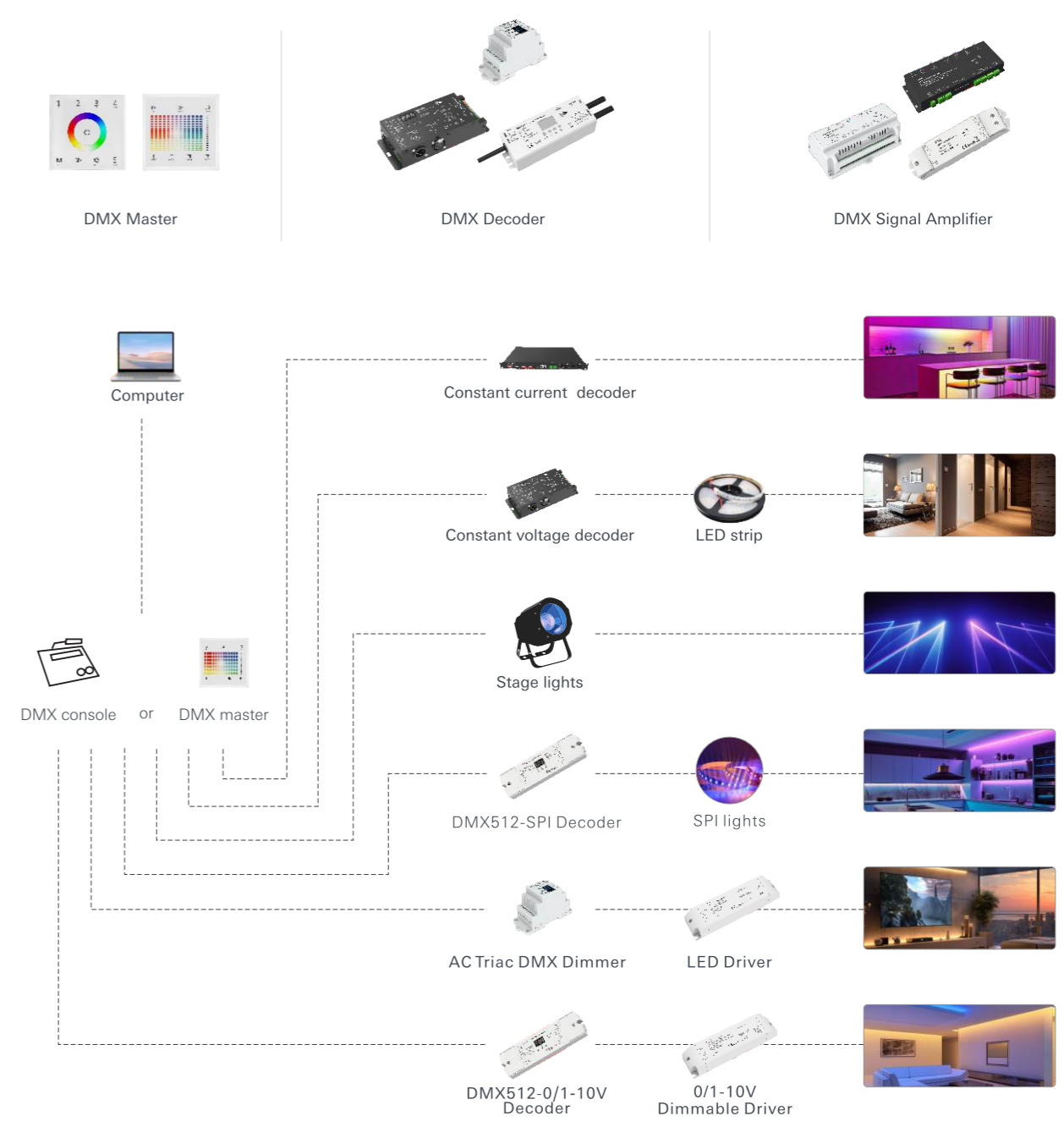
## DMX512 Control System

Skydance DMX controllers are designed with the latest DMX512, DMX512(1990), DMX512-A and RDM standard protocols which enable users to set DMX address, choose output channel quantity, PWM output frequency and output brightness curve manually.

The advanced RDM decoder features bi-directional communication function which enables DMX console to detect decoder, displays decoder information and sets DMX address.

The DMX lighting control system consists of DMX console(DMX master) that sends DMX control signal and DMX decoder(DMX slave) which receives the control signal and outputs PWM signal to connected LED lights. Furthermore, with an additional DMX Signal Amplifier DA, the DMX control signal will be double extended.

With built-in RF 2.4G module, the DMX master can be controlled by a variety of single color, dual color, RGB, RGBW,RGB+CCT Remotes.



# DMX Series

## DMX CV Decoder

- > Comply with the DMX512 standard protocols
- > 16bit (65536 levels) /8bit (256 levels) grey level selectable
- > PWM : 500HZ /1KHZ/2KHZ/4KHZ/8KHZ/16KHZ
- > Logarithmic or linear dimming curve selectable
- > Digital numeric display, set DMX decode start address by buttons



**D4** (White/Black)

- 4 channels constant voltage output
- Logarithmic or linear dimming curve selectable



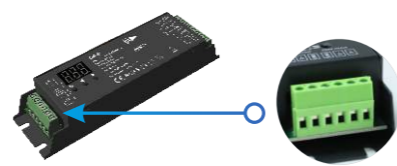
**D4-L**

- 4 channels constant voltage output



**D4-E**  
**D5-E**

- 4/5 channels constant voltage output
- With RJ-45 DMX signal ports



**D4-P**  
**D5-P**

- 4/5 channels constant voltage output
- With green terminal DMX signal ports



Model No.	D4	D4-L	D4-E/D4-P	D5-E/D5-P
Input Voltage	12-24VDC	12-24VDC	12-48VDC	12-48VDC
Output Voltage	12-24VDC	12-24VDC	12-48VDC	12-48VDC
Output Current	4 channel, 5A/CH	4 channel, 5A/CH	4 channel, 8A/CH	5 channel, 4A/CH
Output Power	12V<240W, 24V<480W	12V<240W, 24V<480W	12V<384W, 24V<768W, 36V<864W, 48V<1152W	12V<240W, 24V<480W, 36V<720W, 48V<960W
Size (mm)	110×67×48	170×50×23	175×46×32	175×46×32

- IP67 waterproof rating
- Apply for outdoor and damp environment
- 4 channels constant voltage output
- Logarithmic or linear dimming curve selectable
- PWM : 250HZ / 500HZ /1KHZ /2KHZ /4KHZ /8KHZ /16KHZ

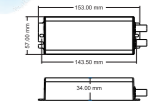


\* Waterproof connector



**IP67**

**D4-WPS**



153 X 57 X 34MM

- Over-heat protection
- Over-load protection
- Short circuit protection
- recover automatically



DMX mode (001~512)



Stand-alone RGB/RGBW mode (P01~P30)



Speed (8 level)

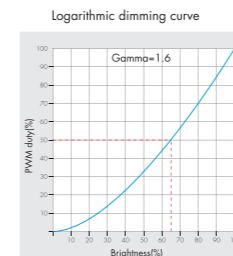
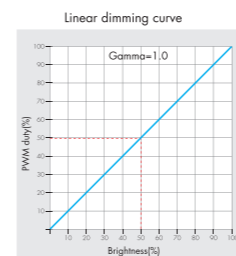


Brightness (10 level, 100%)



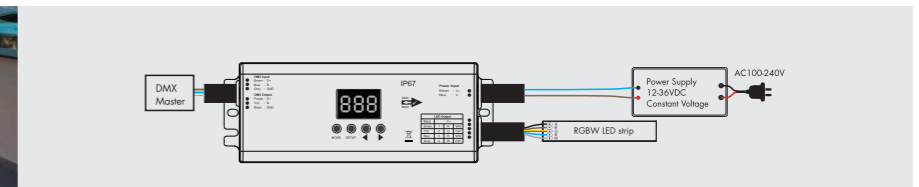
Stand-alone dimmer mode (L-1~L-8)

### Dimming curve setting



### RGB change list

No.	Name	No.	Name	No.	Name
P01	Static red	P11	Green strobe	P21	Red yellow smooth
P02	Static green	P12	Blue strobe	P22	Green cyan smooth
P03	Static blue	P13	White strobe	P23	Blue purple smooth
P04	Static yellow	P14	RGB strobe	P24	Blue white smooth
P05	Static cyan	P15	7 color strobe	P25	RGB+W smooth
P06	Static purple	P16	Red fade in and out	P26	RGBW smooth
P07	Static white	P17	Green fade in and out	P27	RGBY smooth
P08	RGB jump	P18	Blue fade in and out	P28	Yellow cyan purple smooth
P09	7 color jump	P19	White fade in and out	P29	RGB smooth
P10	Red strobe	P20	RGBW fade in and out	P30	6 color smooth

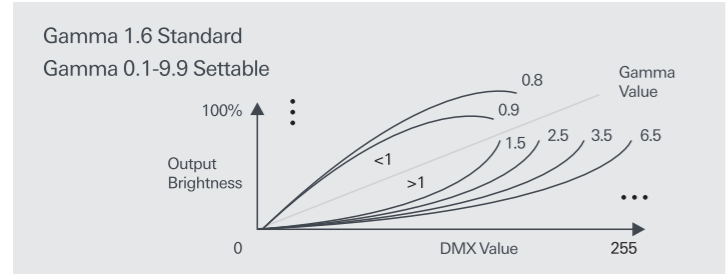


Model No.	D4-WPS
Input Voltage	12-48VDC
Output Voltage	12-48VDC
Output Current	4CH*5A@12/24V, 4CH*4A@36V/48V
Output Power	12V<240W, 24V<480W, 36V<576W, 48V<768W

# DMX Series



### Dimming curve




- 4 channels constant voltage output
- Logarithmic or linear dimming curve selectable
- Green terminal, XLR3 and RJ45 port DMX signal input


### PWM frequency

Std - 16KHZ
High - 4/8 KHZ
Mid - 500/1000HZ
Low - 250/500HZ

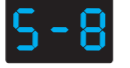
DMX Console	DMX Decoder Output
CH1 0-255	CH1 PWM 0-100% (LED R)
CH2 0-255	CH2 PWM 0-100% (LED G)
CH3 0-255	CH3 PWM 0-100% (LED B)
CH4 0-255	CH4 PWM 0-100% (LED W)




DMX mode  
(001~512)




Stand-alone RGB/RGBW mode  
(P01~P30)



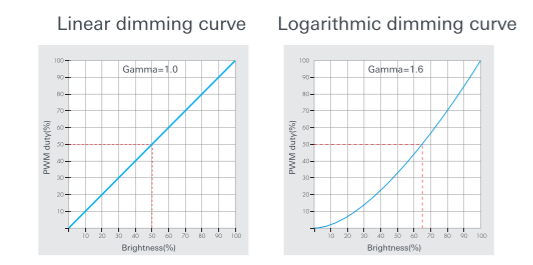
Speed  
(8 level)




Brightness  
(10 level, 100%)



Stand-alone dimmer mode  
(L-1~L-8)




Malfunctions	Causes	Troubleshooting
No light	1. No power. 2. Wrong connection or insecure.	1. Check the power. 2. Check the connection.
Wrong color	1. Wrong connection of R/G/B/W wires. 2. DMX decode address error.	1. Reconnect R/G/B/W wires. 2. Set correct decode address.
Uneven intensity between front and rear, with voltage drop	1. Output cable is too long. 2. Wire diameter is too small. 3. Overload beyond power supply capability. 4. Overload beyond controller capability.	1. Reduce cable or loop supply. 2. Change wider wire. 3. Replace higher power supply. 4. Add power repeater.



**D3-XE**  
165 X 70 X 38MM

Model No.	D3-XE
Input Voltage	12-36VDC
Output Voltage	3*(12-36)VDC
Output Current	3CH*10A
Output Power	12V<360W, 24V<720W, 36V<1080W



**D4-XE**  
165 X 70 X 38MM

Model No.	D4-XE
Input Voltage	12-36VDC
Output Voltage	12-36VDC
Output Current	4 channel, 8A/CH
Output Power	12V<384W, 24V<768W, 36V<1152W




**D5**

- 5 channels constant voltage output
- Digital numeric display, set DMX decode start address by buttons
- Output dimming curve gamma value 0.1-9.9 selectable
- PWM : 500HZ / 2KHZ / 8KHZ / 16KHZ
- Support green terminal(amplify output), XLR3 and RJ45 ports




**D12  
D24**

- 12 channel or 24 channel constant voltage output
- Logarithmic or linear dimming curve selectable
- PWM : 500HZ / 1KHZ / 2KHZ / 4KHZ / 8KHZ / 16KHZ
- Din rail installation



**D12A  
D24A**

- 12 channel or 24 channel constant voltage output
- Output dimming curve gamma value 0.1-9.9 selectable
- PWM : 500HZ / 2KHZ / 8KHZ / 16KHZ
- D12A with green terminal, XLR3 and RJ45 DMX signal ports
- D24A with green terminal, XLR3/XLR5 and RJ45 DMX signal ports



**D24B**

- 24 channel constant voltage output
- DIM/CCT/RGB/RGBW decoding mode selectable
- Output dimming curve gamma value 0.1-9.9 selectable
- PWM: 500HZ/2KHZ/8KHZ/16KHZ
- Green terminal, XLR3/XLR5 and RJ45 DMX signal ports

Model No.	Input Voltage	Output Voltage	Output Current	Output Power	Size (mm)
D5	12-24VDC	12-24VDC	5 channel, 6A/CH	12V<360W, 24V<720W	170 X 86 X 39.5
D12	12-24VDC	12-24VDC	12 channel, 5A/CH	12V<720W, 24V<1440W	165 X 70 X 38
D24	12-24VDC	12-24VDC	24 channel, 3A/CH	12V<864W, 24V<1728W	165 X 70 X 38
D12A	12-24VDC	12-24VDC	12 channel, 5A/CH	12V<720W, 24V<1440W	246 X 116 X 38.5
D24A	12-24VDC	12-24VDC	24 channel, 5A/CH	12V<1440W, 24V<2880W	324 X 116 X 38.5
D24B	12-24VDC	12-24VDC	24 channel, 4A/CH	12V<1152W, 24V<2304W	342 X 116 X 38.5



# DMX Series

## ► High Voltage Decoder & Switch

- > Comply with the DMX512/RDM standard protocols
- > Digital numeric display, set DMX decode start address by buttons



**S3-DX** 165 X 70 X 38MM

- 3 channels output, work with high voltage LED strip
- Logarithmic or linear dimming curve selectable
- PWM : 1KHZ / 2KHZ / 4KHZ / 8KHZ
- With green terminal, XLR3 and RJ45 DMX signal ports
- 2.4G RF remote control optional



**DP** 170 X 50 X 23MM

- 1 channel AC input and output, one DMX address
- Control power on/off to cater for unwanted dimming lighting system

<b>Model No.</b>	S3-DX	<b>Model No.</b>	DP (switch)
<b>Input Voltage</b>	110-240VAC	<b>Input Voltage</b>	110-240VAC
<b>Output Voltage</b>	110-240VAC	<b>Output Voltage</b>	110-240VAC
<b>Output Current</b>	3CH*1.5A	<b>Output Current</b>	Max 5A
<b>Output Power</b>	110V<495W, 240V<1080W	<b>Output Power</b>	120V<500W, 240V<1200W

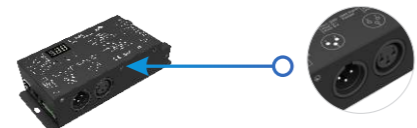
## ► DMX CC Decoder

- Comply with the DMX512/RDM standard protocols
- Digital numeric display, set DMX decode start address by buttons
- Logarithmic or linear dimming curve selectable
- PWM : 250HZ / 500HZ / 1KHZ / 2KHZ / 4KHZ / 8KHZ / 16KHZ
- 16bit (65536 levels) / 8bit (256 levels) grey level selectable



110X67X48MM

<b>Model No.</b>	D4C(150-500mA)	D4C(350-1200mA)	<b>Model No.</b>	D4C-XE(700-1750mA)
<b>Input Voltage</b>	12-48VDC	12-48VDC	<b>Input Voltage</b>	12-48VDC
<b>Output Voltage</b>	12-48VDC	12-48VDC	<b>Output Voltage</b>	12-48VDC
<b>Output Current</b>	4CH*(150-500mA)	4CH*(350-1200mA)	<b>Output Current</b>	4CH*(700-1750mA)
<b>Output Power</b>	4*(0.45-22.5)W	4*(1.05-54)W	<b>Output Power</b>	4*(2.1-78.75)W



165 X 70 X 38MM



170 X 50 X 23MM

<b>Model No.</b>	D4C-L(150-500mA)	D4C-L(350-1200mA)	<b>Model No.</b>	D32C(350mA)	D32C(700mA)
<b>Input Voltage</b>	12-48VDC	12-48VDC	<b>Input Voltage</b>	12-48VDC	12-48VDC
<b>Output Voltage</b>	12-48VDC	12-48VDC	<b>Output Voltage</b>	12-48VDC	12-48VDC
<b>Output Current</b>	4CH*(150-500mA)	4CH*(350-1200mA)	<b>Output Current</b>	32CH*350mA	32CH*700mA
<b>Output Power</b>	4*(0.45-22.5)W	4*(1.05-54)W	<b>Output Power</b>	32*(1-16.1)W	32*(2.1-32.2)W



165 X 70 X 38MM

## ► DMX-Triac Decoder

- > Comply with the DMX512/RDM standard protocols
- > Digital numeric display, set DMX decode start address by buttons
- > Apply for single color dimmable LED lamps, traditional incandescent and halogen lights dimming/switch
- > Reverse-phase dimming or forward-phase dimming selectable
- > Minimum brightness set from 1% to 40%



**S1-D**  
• 2 channels output, AC phase-cut mosfet dimmer with DMX function



**S1-D1 (White/Black)**  
• 1 channel output, AC phase-cut mosfet dimmer with DMX function



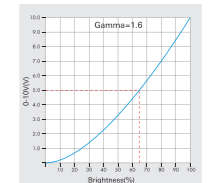
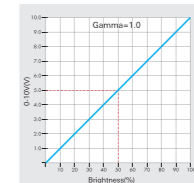
**S1-DR (White/Black)**  
• 2 channels output, AC phase-cut mosfet dimmer with DMX function

- Din rail installation

<b>Model No.</b>	S1-D	S1-D1	S1-DR
<b>Input Voltage</b>	100-240VAC	100-240VAC	100-240VAC
<b>Output Voltage</b>	100-240VAC	100-240VAC	100-240VAC
<b>Output Current</b>	2CH*1A	1CH*2A	2CH*1.2A
<b>Output Power</b>	110V<220W, 240V<440W	110V<200W, 240V<480W	110V<264W, 240V<484W
<b>Size (mm)</b>	170 X 50 X 23	115 X 48 X 67	115 X 48 X 67

## ► DMX 0/1-10V Decoder

- > Comply with the DMX512/RDM standard protocols
- > 1/2/4 DMX channels output selectable
- > 0-10V or 1-10V signal output selectable
- > Digital numeric display, set DMX decode start address by buttons
- > Logarithmic or linear dimming curve selectable



170 X 50 X 23MM

<b>Model No.</b>	DL-L	<b>Model No.</b>	DL (White/Black)
<b>Input Voltage</b>	12-24VDC	<b>Input Voltage</b>	110-220VAC/12-24VDC
<b>Output Current</b>	4CH*20mA	<b>Output Current</b>	4CH*20mA
<b>Input Signal</b>	DMX512	<b>Input Signal</b>	DMX512
<b>Output Signal</b>	0-10V/1-10V	<b>Output Signal</b>	0-10V/1-10V



110X67X48MM

# DMX Series

## DMX-SPI Decoder

- > Digital numeric display, set DMX decode start address by buttons
- > 32 kinds dynamic modes
- > Compatible with 45 kinds of digital IC RGB or RGBW LED strips
- > Under RF mode, match with RF 2.4G RGB/RGBW remote control



**DS (White/Black)**  
• Din rail installation



**DS-L**



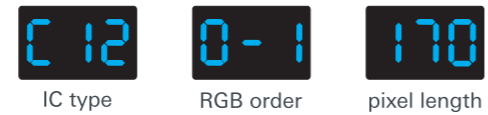
**DSA**  
• With green terminal, XLR3 and RJ45 DMX signal ports

Model No.	DS	DS-L	DSA
Input Voltage	5-24VDC	5-24VDC	5-24VDC
Input Signal	DMX512 + RF 2.4GHz	DMX512 + RF 2.4GHz	DMX512 + RF 2.4GHz
Output Signal	SPI(TTL)	SPI(TTL)	SPI(TTL)
Control Dots	170 pixels (RGB 510 CH) Max 900pixels	170 pixels (RGB 510 CH) Max 900pixels	170 pixels (RGB 510 CH) Max 900pixels
Size (mm)	115 X 48 X 67	170 X 50 X 23	168 X 74 X 40

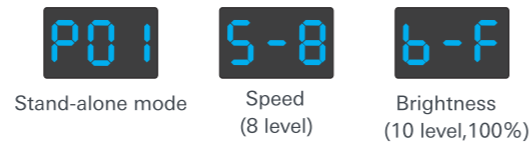
### IC type table

No.	IC type	Output signal
C11	TM1803	DATA
C12	TM1809, TM1804, TM1812, UCS1903, UCS1909, UCS1912, SK6813, UCS2903, UCS2909, UCS2912, WS2811, WS2812, WS2813, WS2815, SM16703P	DATA
C13	TM1829	DATA
C14	TLS3001, TLS3002	DATA
C15	GW6205	DATA
C16	MBI6120	DATA
C17	TM1814B(RGBW)	DATA
C18	SK6812(RGBW), WS2813(RGBW), WS2814(RGBW)	DATA
C19	UCS8904B(RGBW)	DATA
C21	LPD6803, LPD1101, D705, UCS6909, UCS6912	DATA, CLK
C22	LPD8803, LPD8806	DATA, CLK
C23	WS2801, WS2803	DATA, CLK
C24	P9813	DATA, CLK
C25	SK9822	DATA, CLK
C31	TM1914A	DATA
C32	GS8206, GS8208	DATA
C33	UCS2904	DATA
C34	SM16804	DATA
C35	SM16825	DATA
C36	SM16714(RGBW)	DATA
C37	UCS5603	DATA
C38	UCS2603	DATA
C39	SM16714D	DATA

### IC type, RGB order and pixel length setting



### Stand-alone mode



### DMX decode mode

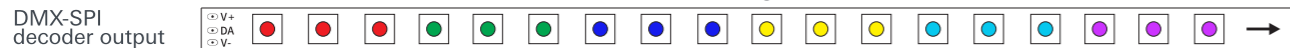


DMXCH	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
DMX Data	255	0	0	0	255	0	0	0	255	255	255	0	0	255	255	255	0	255

(start address: 001, decode channel number: 18, each 3 channel control length: 1)



(start address: 001, decode channel number: 18, each 3 channel control length: 3)



## DMX Signal Amplifier

- > Apply to amplify, distribute and insulate the DMX signal transmission
- > Input and outputs are ture RS-485 rated, and no microprocessors are used for maximum reliability
- > Photo-electricity insulation between input and output terminals



**DA-L**



**DA (White/Black)**  
Din rail

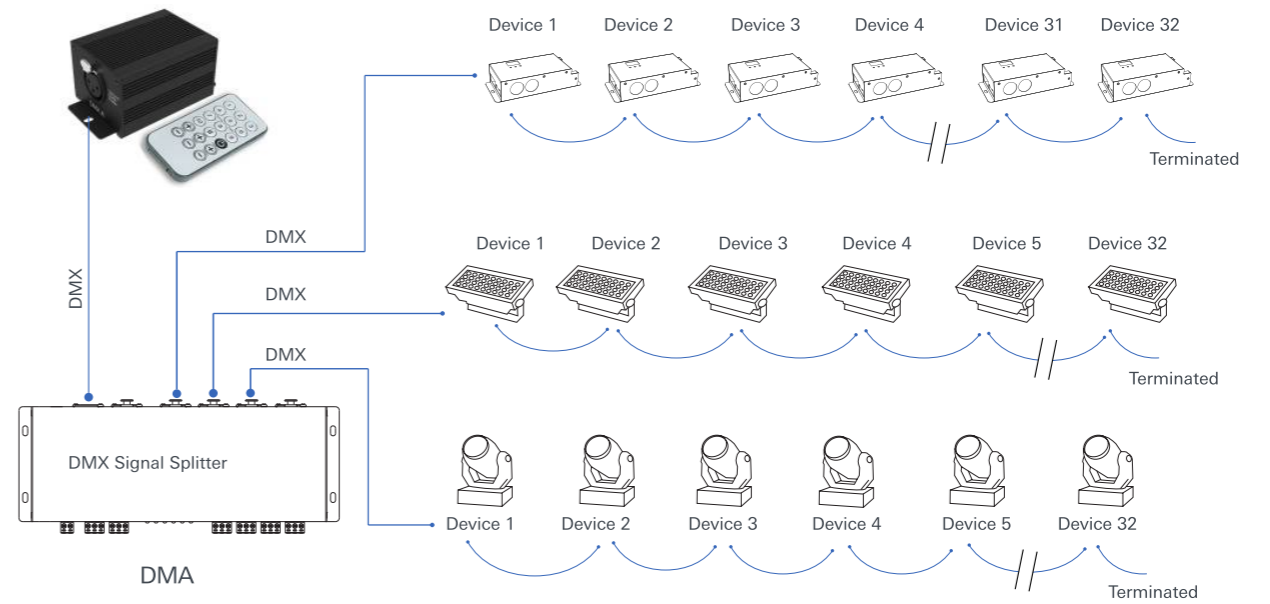


**DMA**  
Green terminal/XLR3/XLR5 ports



**DMA2X3**  
Din rail

### DMX 512 Mater



Model No.	Input Voltage	Input Signal	Output Signal	Output Channel	Size (mm)
DA	12-36VDC	DMX512	DMX512*2	2 channels	115 X 48 X 67
DA-L	12-48VDC	DMX512	DMX512*2	2 channels	175 X 45 X 27
DMA	12-36VDC	DMX512	DMX512*4	4 channels	256 X 92 X 38
DMA2X3	12-48VDC	DMX512*2	DMX512*6	6 channels	160 X 88 X 60

# DMX Series

## ▶ DMX Panel Master & RF Panel Remote(DIM)

- Input voltage 100-240VAC
- Can also work as RF remote control
- Single zone and 4 zone panel options, Max.save 4 scenes
- Wall mounted touch panel
- 256 levels 0-100% dimming, without flash
- Push/rotate/touch with chord tones and LED indicator



**T11-4S** (White/Black)  
4 zone  
3 scene  
86 X 86 X 33MM



**T11-K** (White/Black)  
1 zone  
86 X 86 X 48MM



**T11** (White/Black)  
4 zone  
4 scene  
86 X 86 X 35MM

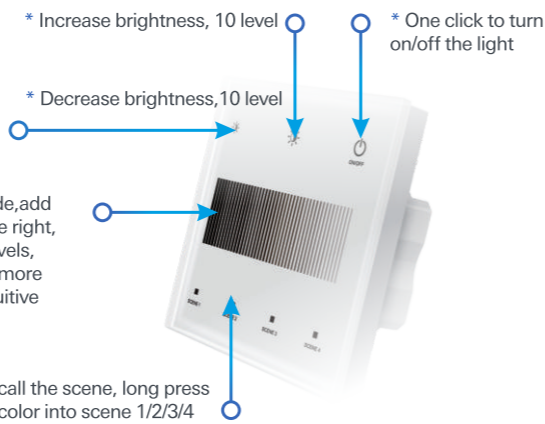


**T11-1** (White/Black)  
4 zone  
3 scene  
86 X 86 X 35MM



**T11(IT)** (White/Black)  
4 zone  
120 X 80 X 37MM

- Ultra sensitive high strength glass DMX dimming touch panel
- Smooth and accurate color adjustment by touching the wide brightness touch slide
- 256 dimming levels,0-100% brightness easy adjust
- Four scene keys, 4 scenes can be saved
- 100-240VAC power supply input



**T11-S** (White/Black)  
1 zone  
4 scene  
86 X 86 X 33MM

## ▶ DMX Panel Master & RF Panel Remote(CCT)

- Input voltage 100-240VAC
- 256 levels 0-100% dimming, without flash
- Single zone and 4 zone panel options, Max.save 4 scenes
- Wall mounted touch panel
- Touch with chord tones and LED indicator



**T12** (White/Black)  
4 zone  
4 scene  
86 X 86 X 35MM



**T12-1** (White/Black)  
4 zone  
1 scene  
86 X 86 X 35MM



**T12(IT)** (White/Black)  
4 zone  
120 X 80 X 37MM



**T12-S** (White/Black)  
1 zone  
4 scene  
86 X 86 X 33MM



**T12-4S** (White/Black)  
4 zone  
3 scene  
86 X 86 X 33MM

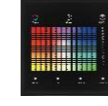
## ▶ DMX Panel Master & RF Panel Remote(RGB / RGBW / RGB+CCT )

- Input voltage 100-240VAC
- Can also work as RF remote control
- Touch with chord tones and LED indicator
- Wall mounted touch panel
- 256 levels 0-100% dimming, without flash
- Single zone and 4 zone panel options, Max.save 4 scenes

### RGB DMX master



**T13-4S** (White/Black)  
4 zone  
3 scene  
86 X 86 X 33MM



**T13-S** (White/Black)  
1 zone  
4 scene  
86 X 86 X 33MM



**T13** (White/Black)  
4 zone  
4 scene  
86 X 86 X 35MM

### RGBW DMX master



**T14-4S** (White/Black)  
4 zone  
3 scene  
86 X 86 X 33MM



**T14-S** (White/Black)  
1 zone  
4 scene  
86 X 86 X 33MM



**T14-1** (White/Black)  
RGBW  
4 zone  
86 X 86 X 35MM



**T14** (White/Black)  
1 zone  
3 scene  
86 X 86 X 35MM



**T14(IT)** (White/Black)  
RGBW  
4zone  
120 X 80 X 37MM

### RGB+CCT DMX master



**T15-4S** (White/Black)  
4 zone  
3 scene  
86 X 86 X 33MM



**T15** (White/Black)  
dimming, CCT,  
RGB/RGBW, RGB+CCT  
4 zone  
3 scene  
86 X 86 X 35MM



**T15(IT)** (White/Black)  
dimming, CCT,  
RGB/RGBW, RGB+CCT  
4 zones  
1 scene  
120 X 80 X 37MM

