



SPI RGB

Voltage	DC24 V
Circuit Design	CV
IC Model	WS2811
Pixels/m	10
Power(w/m)	12w
Max. Run Length	5m
Cutting Length	100mm

Parameters

CRI	CCT	lm/m	w/m	lm/w
--	R	56.93	4.8	11.86
	G	159.26	4.8	33.18
	B	24.82	4.8	5.17
	RGB	225.72	12	18.81

Note:

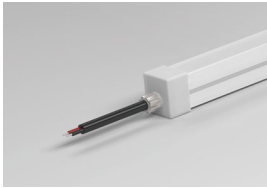
- CV: Constant Voltage CC: Constant Current.
- Max. Run length refers to single side feed in serial connection.
- The given color temperature is the temperature of finished products.
- The given data are typical values. Due to tolerances of the production process and the electrical components,testing parameters can vary up to 10%.
- The Constant Current version supports PWM dimming, but the PWM frequency must be kept below 2kHz.

Cable Type	Schematic Diagram	Specification	Core	Electrical Properties
PVC Cable		OD : 5.0mm		SPI: Red V+, Green DI/DO, Black V-

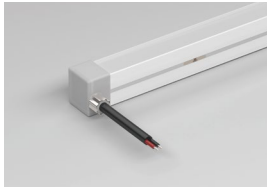


End Cap & Cable Lead Option

Silicone end cap (IP67)



Front Cable Entry



Side Cable Entry

Integral End Cap (IP44)



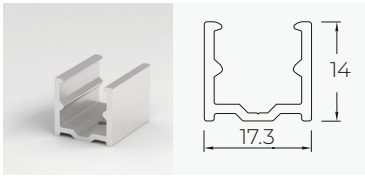
Closed End Cap



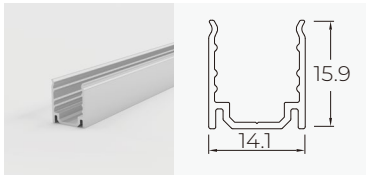
Closed End cap



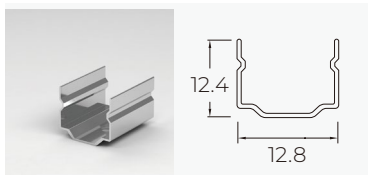
Accessories



Aluminium Mounting clips
Length: 2cm

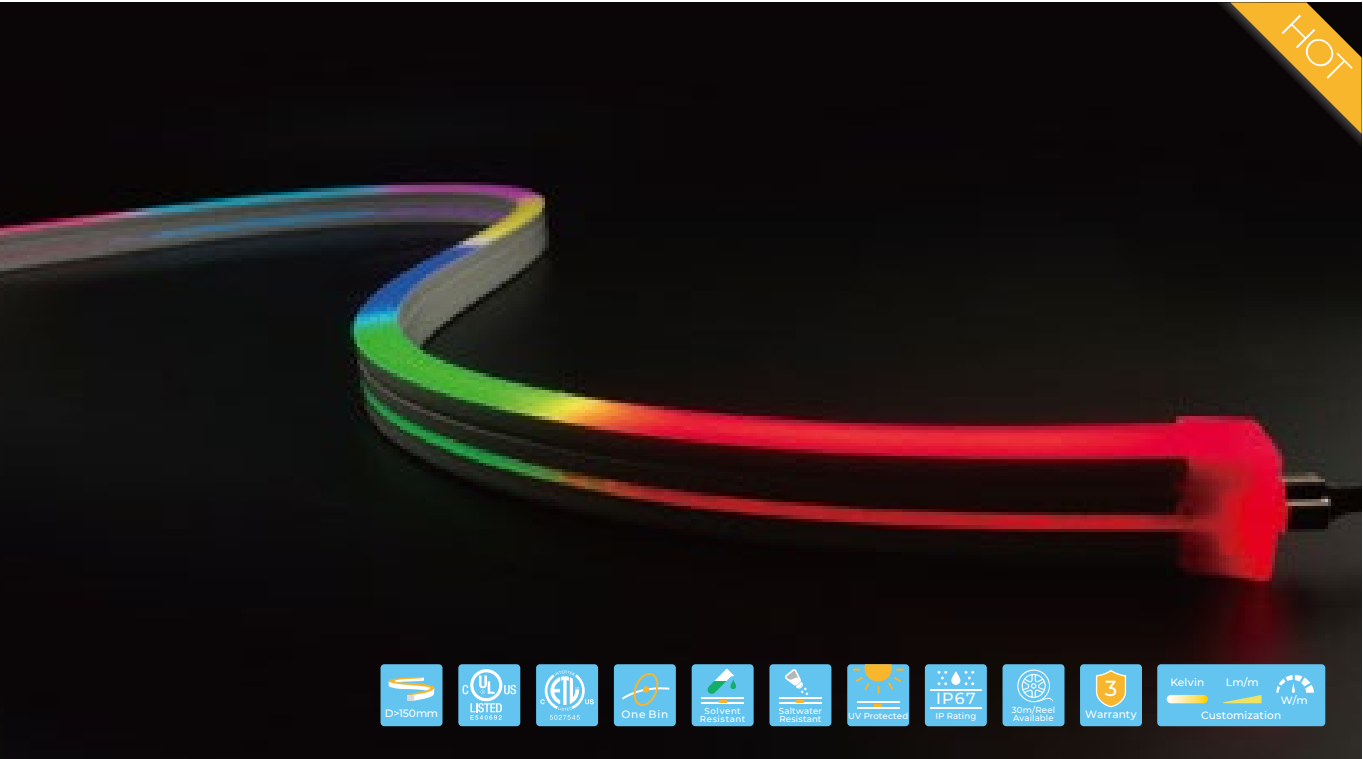


Aluminium Profile
Length: 1m/2m/3m

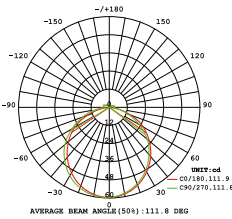


Stainless Steel Mounting clips
Length: 2cm

PIXEL S1220

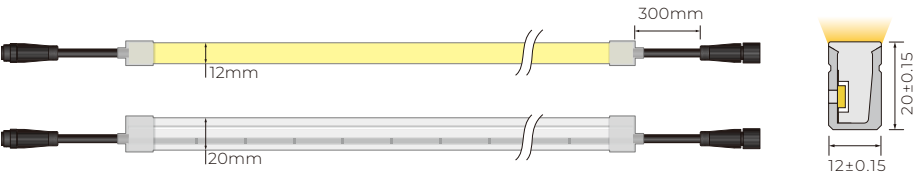


DMX512-controlled digital LED neon with stable signal and long transmission range, ideal for large outdoor projects. Supports color-changing effects, gradients, chases, pulsating patterns, and animations. Compatible with popular platforms like Madrix, Resolume, and Chromateq, easily programmed and synchronized for stunning visual displays. 3-year warranty, lifespan ≥ 30,000 hours, 1 BIN.



Light Distribution Curve

Dimensions



Basic Parameters

Model No.	NP-S1220	
Voltage	DC24V	
Power(w/m)	12w/15w	
Storage Temperature	-25°C~60°C	
Ambient Temperature	Tamin=-25°C, Tamax (Table below)	
Output	Low Output	Std Output
Power(w/m)	12w	15w
Max. Ambient tempt.(Tamax)	55°C	45°C



SPI RGB

Voltage	DC24 V
Circuit Design	CV
IC Model	UCS8603
Pixels/m	8
Power(w/m)	12w
Max. Run Length	5m
Cutting Length	125mm

Parameters

CRI	CCT	lm/m	w/m	lm/w
--	R	28	5	5.6
	G	110	5	22.1
	B	20	5	4.0
	RGB	159	12	13.2



SPI RGBW

Voltage	DC24 V
Circuit Design	CV
IC Model	UCS2904
Pixels/m	8
Power(w/m)	14.5W
Max. Run Length	5m
Cutting Length	125mm

Parameters

CRI	CCT	lm/m	w/m	lm/w
--	R	29	4.8	6.0
	G	78	4.8	16.3
	B	23	4.8	4.8
	W(4000K)	96	4.8	20.0
>90	RGBW	218	14.5	15.0



DMX512 RGB

Voltage	DC24 V
Circuit Design	CV
IC Model	UCS512C2L
Pixels/m	8
Power(w/m)	12w
Max. Run Length	5m
Cutting Length	125mm

Parameters

CRI	CCT	lm/m	w/m	lm/w
--	R	30	4.8	6.3
	G	115	4.8	24.0
	B	20	4.8	4.2
	RGB	161	12	13.4



DMX512 RGBW

Voltage	DC24 V
Circuit Design	CV
IC Model	UCS512C2L
Pixels/m	8
Power(w/m)	15W
Max. Run Length	5m
Cutting Length	125mm

Parameters

CRI	CCT	lm/m	w/m	lm/w
--	R	28	4.8	5.8
	G	80	4.8	16.7
	B	16	4.8	3.3
	W(4000K)	96	4.8	20.0
>90	RGBW	211	15	14.1

Note:

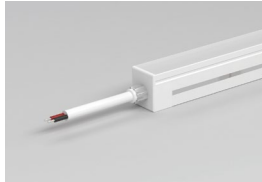
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- The Constant Current version supports PWM dimming, but the PWM frequency must be kept below 2kHz.

Cable Type	Schematic Diagram	Specification	Core	Electrical Properties
PVC Cable		OD: 5.0mm		SPI (Single data cable): Red V+, Green DI/DO, Black V-
		OD: 5.5mm		SPI (Dual data cable) : Red V+, Green BI/BO, Blue DI/DO, Black V-
		OD: 5.5mm		DMX512 : Red V+, Green PI/PO, Blue AI/AO, White BI/BO, Black V-
Silicone Cable		OD: 5.0mm		SPI : Red V+, Green DI/DO, Black V-
		OD: 6.0mm		Breakpoint Transmission : RedV+, Green BI/BO, Blue DI/DO, Black V-
		OD: 6.0mm		DMX512 : RedV+, Green PI/PO, Blue AI/AO, White BI/BO, Black V-



End Cap & Cable Lead Option

Integral end cap (IP67)



Front Cable Entry



Side Cable Entry



Bottom Cable Entry



Closed End cap

Silicone end cap (IP67)



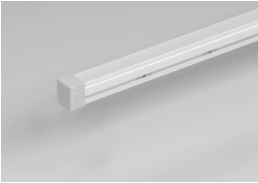
Front Cable Entry



Side Cable Entry



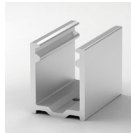
Bottom Cable Entry



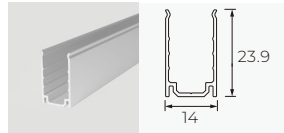
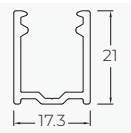
Closed End cap



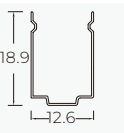
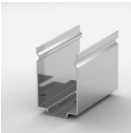
Accessories



Aluminium Mounting clips
Length: 2cm



Aluminium Profile
Length: 1m/2m/3m



Stainless Steel Mounting clips
Length: 2cm