DiGi LED Strip Multi Color RGBW 24V

The DiGi LED Strip Multi Color RGBW 24V is engineered for high-impact indoor environments. This robust and flexible lighting solution is designed to perform in demanding interior conditions while providing a seamless experience layer of patterns and motion. Custom length options and a flexible copper PCB allow the light to effortlessly follow organic shapes and intricate architectural outlines.

With four selectable pixel-pitch configurations (16mm, 50mm, 83mm, and 100mm), it is the ideal choice for enhancing architectural forms with bold light effects tailored to specific project scales. The 24V system is built for consistency and efficiency, offering a reliable solution that maintains its integrity in professional settings.

- Scalable Performance Configurations — Offers versatile pixel lengths ranging from 16.67mm to 100mm, allowing for the perfect balance between high-resolution detail and long data run lengths of up to 64 meters.
- Advanced Control Options — Features up to 16 bit dimming for ultra-smooth color transitions and accurate light effects across a 120° beam angle via SPI integration.

CE RoHS IP20

Specifications

General

Pixel Pitch Variant	16	50	83	100
Power Consumption (W/m)	19,2	15	17,3	19,2
Input Voltage (V DC)	24			
LEDs (/m)	60	120	72	70
LED Pitch (mm)	16,67	8,3	13,9	14,3
Pixels (/m)	60	20	12	10
Pixel Pitch (mm)	16,67	50	83,3	100
Channels (/m)	240	80	48	40
Beam Angle (°)	120			
LED Type	4in1			
Color Range	RGBW			
LEDs (/segment)	5	6	6	7
CRI	≥80			
Control	SPI			
IC Type	SK6812	WS2814F	UCS7604	TM1824
Dimming	8 bit	8 bit	16 bit	8 bit

Installation Conditions & Lighting Data

Segment Length (mm)		100	50	83,3	100
Maximum Run Length Power[1] (m)	Single Feed	10	4,4	4,3	10
	Double Feed	20	8,8	8,6	20
Maximum Run Length Data[1] (m)		16mm	@30fps	7	
			@50fps	4	
		50mm	@30fps	32	
			@50fps	19	
		83mm	@30fps	53	
			@50fps	32	
		100mm	@30fps	64	
			@50fps	38	
Lumen Maintenance Calculated Hours (h)					

[1] More details can be found in the Installation Guide document.

Operating

Environment	Indoor
Installation Temperature (°C)	-40 to +80
Working Temperature (°C)	-25 to +60
IP Rating	IP20
Certification	CE, RoHS
Warranty	2 Years

Physical

PCB Material	Copper	
Cable Material	PVC	
PCB Color	White	
Connector Type	Bare Wires	
Weight (kg/m)	0,035	
Dimensions WxH (mm)	16mm	12 x 2,7
	50mm	8 x 2,7
	83mm	12 x 2,7
	100mm	12 x 2,7
Length (mm)	5000 (Custom on Request)	

Options

Color/CCT

- ☐ RGBW2700K

Pixel Pitch Variant

- ☐ 16mm
- ☐ 50mm
- ☐ 83mm
- ☐ 100mm

oneeighty one.com

Bromostraat 18-1
1067TG Amsterdam
The Netherlands

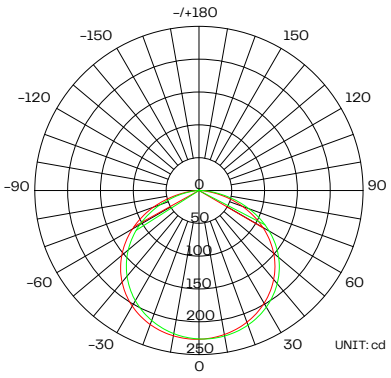
Info@oneeightyone.com
+31 (0)20 8200 170
@oneeightyonelighting

Lighting Specifications

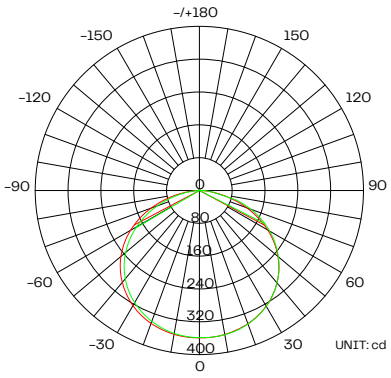
DiGi LED Strip

	Full RGBW (lm/m)	Red (lm/m)	Green (lm/m)	Blue (lm/m)	White (lm/m)
RGBW2700K 16mm	718	63	205	40	413
RGBW2700K 50mm	724	89	352	59	239
RGBW2700K 83mm					
RGBW2700K 100mm	1173	140	461	92	498

Photometric Distribution



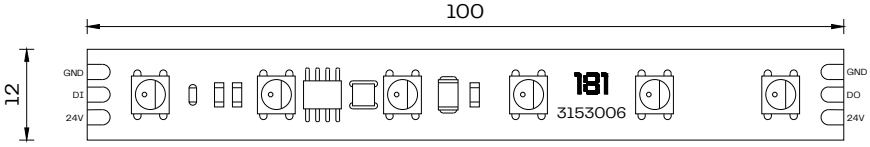
16mm - 120.4° Average Beam Angle



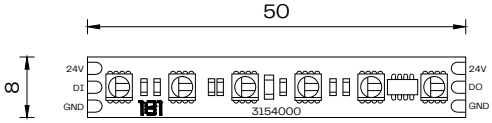
100mm - 123.3° Average Beam Angle

Dimensions

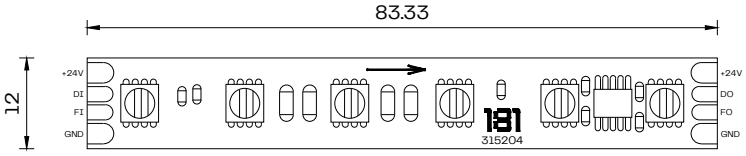
RGBW 16mm



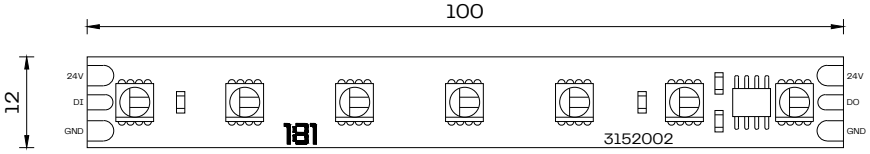
RGBW 50mm



RGBW 83mm



RGBW 100mm



Product References

DiGi LED Strip

Reference	Description
3153006	DiGi LED Strip RGBW2700K 16mm 24V
3154000	DiGi LED Strip RGBW2700K 50mm 24V
3152004	DiGi LED Strip RGBW2700K 83mm 24V
3152002	DiGi LED Strip RGBW2700K 100mm 24V

Bromostraat 18-1
1067TG Amsterdam
The Netherlands
Info@oneeightyone.com
+31 (0)20 8200 170
@oneeightyonelighting