

PROTECH LED

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LED STRIP SPECIFICATION

AT-RGB-PIXEL-12V-1





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DESCRIPTION

AT-RGB-PIXEL-12-1 RGB magic LED strip lights let you create millions of colors by just mixing red, green, and blue colors. With the ability to control each individual pixel and each individual channel, the color mix and color effects possibilities are endless. LED Chip is built-in IC 8808B, supporting numerous Color-change effects every single LED. Fully compatible with IC UCS1903. Flexible PCB 12V low voltage input.

DIMENSIONS & WATERPROOF

Dimension	Unit:mm					
IP Grade	IP20	IP52	IP65H	IP65	IP67	IP67E/IP68

PRODUCT SPECIFICATION

Dimension	5000x10x2.2mm	Voltage (V)	DC12V
Chip Type	5050SMD	Current (A/m)	1.2A
Chip Density	60 LEDs/m	Power (W/m)	14.4 W (3 colors 100% on)
Step LEDs	1 LED	Beam Angle	120°
Cutting Length	16.54mm	Operation Temperature	-20°C~50°C

PRODUCT PHOTOMETRICS - RED, GREEN AND BLUE DIODES (DATA BASE ON IP20)

Color	Peak Wavelength (nm)	Dominant Wavelength (nm)	Lumen (LM/M)	Power (W/M)	Efficacy (LM/W)
RED	632	622	107.37	4.63	23.18
GREEN	517	523	347.30	5.05	68.80
BLUE	462	466	64.19	4.72	13.60



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PRODUCT PHOTOMETRICS - ALL RED, GREEN AND BLUE COLOR AT 100% ON (DATA BASE ON IP20)

CCT (K)	Lumen (lm/m)	Power (w/m)	Efficacy (lm/w)	CRI	R9
42250	515.23	14.4	35.78	50+	-

IP20: bare, max. light output and the best color consistency, indoor use.

IP52: silicone coating, ~5% less output and 3rd best color consistency, indoor use, for damp environments.

IP65: silicon tube/Heat shrink tube/Extrusion tube/U milky tube + clear cover, ~3% less output and 2nd best color consistency, indoor use or semi-outdoor use, for raining environments.

IP67: silicone tube + siliconfilling, ~7% less output and 4th best color consistency, outdoor use, max length is 10 meters.

IP67E: solid silicone extrusion, ~7% less output and 4th best color consistency, outdoor use, max length up to 50 meters.

IP68: PU (Polyurethane), ~7% less output and 4th best color consistency, under the water, within 2 meters deep.

WIRING DIAGRAM

