



Pixel FlexLED 24V RGBW High Frequency Group Chip Control

Flexible High CRI LED Tape

A worlds first! High CRI Pixel FlexLED in high frequency with superior low-end dimming and gamma curve control. This product uses the same LED chips as our standard FlexLED RGBW AIO LEDs but is controllable every 6 LEDs. This is our brightest Pixel FlexLED and at 24VDC allows for longer runs of LED while still allowing for dazzling effects and endless possibilities. Control these strips with our PixlArt 416 controller via ArtNet or sACN data signals. This pixel control product is high frequency operating at 16khz, meaning it is safe at camera speeds up to 533fps. 16-bit dimming ensures a smooth dimming curve. With a primary and a back-up data line, this protocol is built for the most tough installations. UCS7604 protocol.

Pixel Product Installation Notes:

The PWM frequency (dimming frequency) is baked into the pixel and cannot be changed. You must ensure you choose the right pixel strip for your application. If you are unsure of what camera settings are going to be in use, it is best to go with high frequency pixel tape (8khz or higher / GS8208 or UCS7604 or APA102) Avoid voltage drop by positioning a power supply close to the LED strip and/or powering the LED strip from multiple locations (or via multiple power supplies) The power supply that is providing power to the controller (PixlArt416) does not need to be the same power supply that is powering the LED strip. During testing ensure that the pixel strip is receiving the required voltage by doing a volt meter test at the contact pads of the LED strip.

Soldering Guidelines:

Soldering iron should be between 360°C and 372°C. Please ensure not to heat each solder pad for longer than 3 seconds otherwise separation of the solder pads can occur.

Other Notes:

Indoor and weatherproof strips have 3M double-sided tape on the back which makes installation as easy as peel n stick. Waterproof strips require mounting via silicone glue or mechanical hardware. Controller, power supply and extension cables are sold separately based on your project

PCB Width 12MM	≥95 CRI	24V DC	120° BEAM ANGLE	5 years	Dimmable	5M (16.4')	CUSTOMIZED LENGTHS
UL LISTED E489028	RoHS	CE	UK CA	IP43 INDOOR	RGB+W	RGB	White

TECHNICAL SPECIFICATIONS

NO:

PIXELS - RGB

1	PRODUCT TYPE	72 LED/METER
2	PRODUCT CODE	I24VRGBWXX360UCS7604
3	CRI / TLCI	<95
4	COLOUR TEMP. OR WAVELENGTH	2700k or 4000k or 5600k
5	PCB COLOUR	BLACK
6	CURRENT, RATING	0.83 A / METER
7	VOLTAGE	24 VDC
8	WATTAGE	20 W / METER
9	CC / CV	CONSTANT VOLTAGE
10	IP RATING	IP43
11	LUMENS/METER@FULL	1500 lm / METER
12	LUMEN / WATT	75
13	LIFETIME*	40,000 HOURS
14	CUTTING LENGTH	8.33 CM
15	LEDS/METER QUANTITY	72 LED / METER
16	NUMBER OF CONTACTS	3
17	LED TYPE	UCS-7604
18	PCB COPPER QUANTITY	3 Oz.
19	OPERATING TEMPERATURE RANGE	-40° TO + 70° C
20	AGENCY RATINGS	UL - E489028, CE, RoHS
21	PCB WIDTH	12MM
22	MAXIMUM RECOMMENDED LENGTH	5 METERS
23	VIEWING ANGLE	120°
24	ADHESION	TESA 4965
25	WAVELENGTH A	620 ~ 625nm
26	WAVELENGTH B	515 ~ 520nm
27	WAVELENGTH C	460 ~ 465nm
28	WAVELENGTH D	N / A
29	DATA TRANSMISSION SPEED	660 kbps
30	REFRESH RATE	25 FPS
31	BIT RATE	4x16 = 64 Bit
32	DATA CLOCK FREQUENCY	N / A
33	PWM FREQUENCY	16kHz

* - NOMINAL LIFETIME BASED ON IDEAL INSTALLATION LOCATION CONDITIONS & ASSUMING MAXIMUM OF 16 HOURS PER DAY OF USE

