

UniPixel Kit

24VDC IP20 RGBIC COB LED Tape Light Kit



Ships in retail packaging · UniPixel-RGB-Kit-16 | UniPixel-RGB-Kit-32

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24VDC IP20 RGBIC COB LED Tape Light Kit



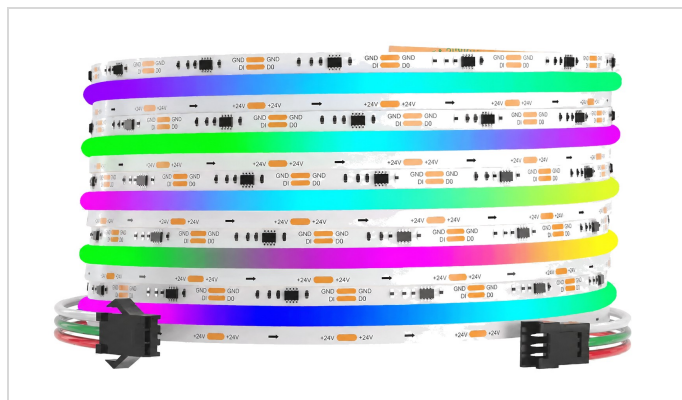
Features

- **Individually addressable** - every 1.97 in (50 mm) of tape is one pixel
- RGBIC COB - **16.7 million colours**, seamless dotless light
- 300 lm/ft luminous output · 3W per foot · CRI 90+
- Wi-Fi, Bluetooth and 2.4GHz RF in one controller
- Smart Life / Tuya app · Amazon Alexa · Google Assistant
- 4-zone RF remote included
- Cuttable every 1.97" (50 mm) · 3M adhesive backing
- Plug and play - no hard wiring, no electrician
- 6-year warranty

Specifications

Input Voltage:	24VDC
Colour:	RGBIC - 16.7 million colours
Control Protocol:	SPI, individually addressable
CRI:	90+
Power:	3W/ft.
Lumens:	300 lm/ft
Pixel Pitch:	1.97" (50mm) - 1 pixel
Cut Length:	1.97" (50mm)
Environment:	IP20 - dry indoor locations
Tape Width:	0.47" (12mm)
Beam Angle:	150°
Lamp Life:	50,000 hours
Adhesive:	3M
Warranty:	6 years

150° Beam Angle



Ordering Information

ORDERING CODE	LENGTH	PIXELS	SUPPLY
UniPixel-RGB-Kit-16	16.4ft (5m)	100	72W, 24VDC
UniPixel-RGB-Kit-32	32.8ft (10m)	200	120W, 24VDC

What's in the Box

	1 UniPixel-RGB-16 / -32 UniPixel RGBIC COB LED tape	1 pc
	2 Eno-Pixel-SPI-RGB SPI RGB smart controller	1 pc
	3 Eno-PS-24V-72W-B / -120W-B 24VDC plug-in power supply	1 pc
	4 Eno-Pixel-Remote-W / -B 4-zone RF remote, white or black	1 pc
	5 UniPixel-C001 3-pin tape-to-wire connector	1 pc

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Performance Table

ORDERING CODE	TAPE LENGTH	PIXELS	VOLTAGE	WATTAGE	LUMENS	CRI	BEAM	CUTTABLE	IP
UniPixel-RGB-Kit-16	16.4ft (5m)	100	24VDC	3W/ft.	300 lm/ft	90+	150°	1.97" (50mm)	IP20
UniPixel-RGB-Kit-32	32.8ft (10m)	200	24VDC	3W/ft.	300 lm/ft	90+	150°	1.97" (50mm)	IP20

Photometric and Power Data

LED CHANNEL	VOLTAGE	WAVELENGTH	CONTROL	GREY SCALE
Red	24VDC	630nm	Per pixel	256 levels
Green	24VDC	530nm	Per pixel	256 levels
Blue	24VDC	460nm	Per pixel	256 levels

Red, green and blue are mixed inside each pixel - 256 levels per channel gives 16.7 million colours per pixel. White is generated from RGB; this tape has no dedicated white channel.

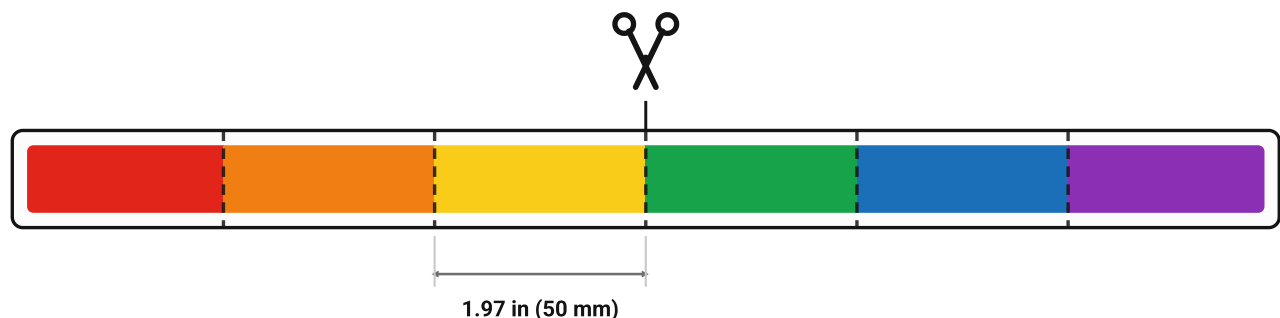
Pixel Addressing

1.97" PIXEL PITCH (50 MM)	6.1 PIXELS PER FOOT	20 PIXELS PER METRE	100 / 200 PIXELS KIT-16 / KIT-32	720 MAX PIXELS PER CONTROLLER	SPI DATA PROTOCOL
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Setting the pixel count

An uncut kit is already set - Kit-16 is 100 pixels, Kit-32 is 200. If the tape is cut, divide the installed length by 1.97 in (50 mm) and enter that number in the app under Settings → Light Strip Length.

Controller capacity The Eno-Pixel controller drives up to 720 pixels - 98.4 ft (30 m) of tape at this pitch. Both kits sit well inside that limit, so no signal amplifier is required.



Cut only through the centre of a marked cut line. The marks repeat on an even 1.97 in (50 mm) pitch along the whole run.

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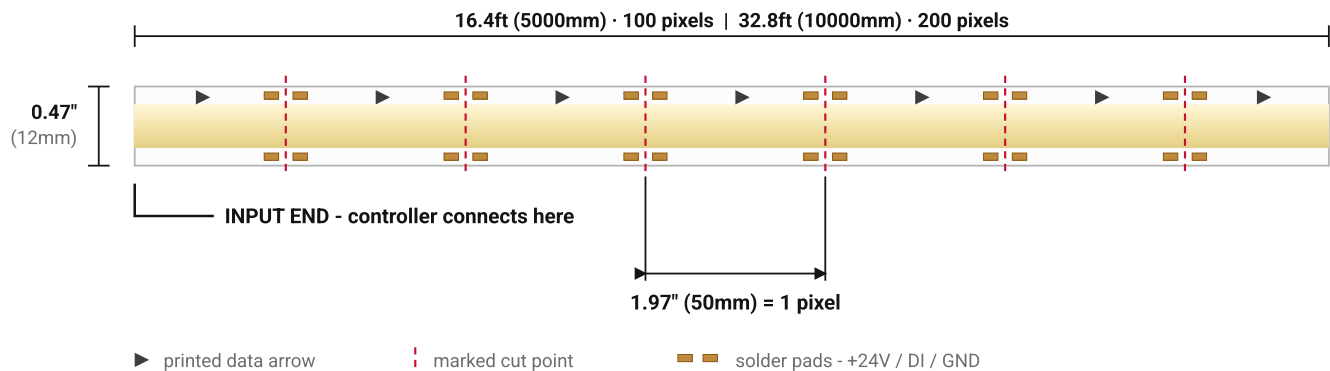
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Mechanical Diagram

UniPixel-RGB-16 / -32 - Tape

0.47" (12 mm) wide · cut and pixel pitch 1.97" (50 mm) · 3M adhesive backing



Connect the controller at the **INPUT END**. Data travels in the direction of the printed arrows only. Cut through the centre of a marked cut point - never between them.

Electrical Wiring Diagram



Plug and play - no electrician is required.

⚠ Indoor use only. This kit is rated IP20 and must be installed in dry indoor locations. Unplug the power supply before cutting or reconnecting the tape. Use only the supply provided, and do not join this kit to additional tape.

Certifications
UL Listed · FCC · CE · RoHS. Controller platform: Tuya / Smart Life, compatible with Amazon Alexa and Google Assistant. 6-year warranty.

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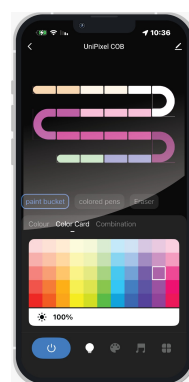


Supplied Controller

PART NUMBER	DESCRIPTION
Eno-Pixel-SPI-RGB	SPI RGB smart LED controller
Input Voltage:	DC 5–24V
Output:	SPI signal × 2
Max Pixels:	720
Wireless:	Wi-Fi 2.4GHz · Bluetooth · 2.4GHz RF
Platform:	Tuya / Smart Life
Operating Temp.:	–25°C to 55°C

A 5GHz-only Wi-Fi network will not complete pairing.

Control Options



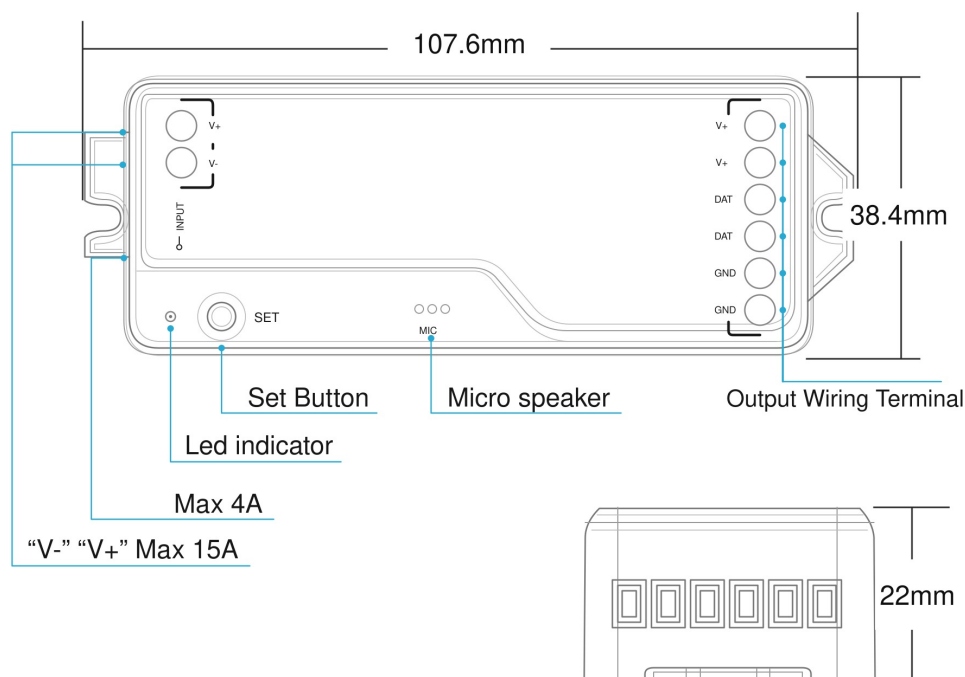
Smart Life / Tuya App
iOS · Android



Eno-Pixel-Remote-W / -B
4-zone 2.4GHz RF remote

The remote ships paired to the controller. Fit 2 × AAA batteries before use - they are not supplied fitted.

User Interface



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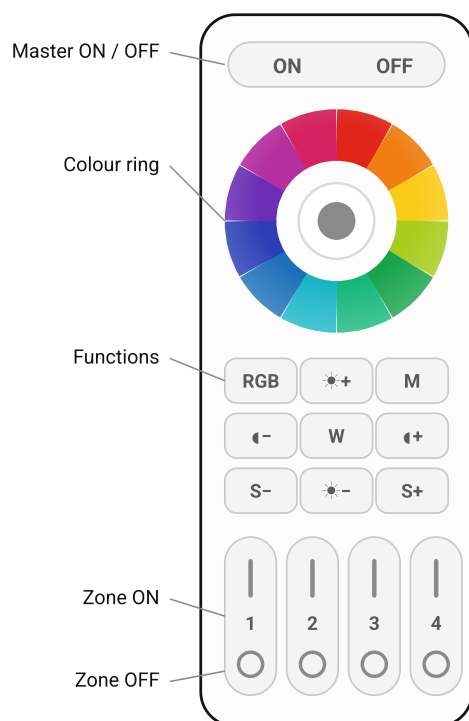
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Remote Control

Eno-Pixel 4-Zone RGB Remote 2.4G RF

Eno-Pixel-Remote-W / -B · fit 2 × AAA batteries before use - not supplied fitted



What the Keys Do

CONTROL	FUNCTION
ON / OFF	Turns all paired zones on or off
Colour ring	Selects an RGB colour
RGB	Cycles through 7 preset colours
M	Cycles through dynamic effects
W	White light
☀ + / -	Brightness up / down
◀ + / -	Colour saturation up / down
S + / -	Effect speed up / down
Zone 1-4 ON	Turns that zone on. Also used to pair and unpair the remote.
Zone 1-4 OFF	Turns that zone off

Pair the Remote to a Zone

Your remote is already paired. Use this only if it does not control the system, or you want it on a different zone.

TO PAIR

- 1 Switch the controller power **off**. Wait 10 seconds.
- 2 Switch the controller power **on**.
- 3 Within 3 seconds, press **Zone ON 3 times**.
- 4 The tape flashes slowly 3 times.

TO UNPAIR

- 1 Switch the controller power **off**. Wait 10 seconds.
- 2 Switch the controller power **on**.
- 3 Within 3 seconds, press **Zone ON 5 times**.
- 4 The tape flashes quickly 10 times.

App Setup

- 1 Install **Smart Life** or **Tuya Smart** and create an account.
- 2 Put the phone on a **2.4GHz** Wi-Fi network and turn Bluetooth on. A 5GHz-only network will not pair.
- 3 Power the kit, then hold the controller's **SET** key for 3 seconds - release when the indicator flashes quickly.
- 4 In the app tap **+ Add Device**, select the controller and follow the prompts.
- 5 Cut the tape? Open **Settings** → **Light Strip Length** and enter the pixel count - installed length ÷ 1.97 in (50 mm).

