



PIXEL BRICK

Technical Specifications

Order Code	PB15
LED Engine	Titan LED Engine
Colors	RGBMintAmber
Total LED Power	15 W
LED Power Draw	12 W
Luminous Flux 2700K	405 Lumens
Luminous Flux 3200K	475 Lumens
Luminous Flux 5500K	395 Lumens
Light Output 2700 K @ 1m	6 178 Lux
Light Output 3200 K @ 1m	7 144 Lux
Light Output 5500 K @ 1m	5 985 Lux
CRI (Ra)/ TLCI 3200- 6500 K*	≥96
Beam Angle	13°
Field Angle	25°
Strobe	0 – 25 Hertz
Pixels	1
Battery Runtime	up to 20 hours
Battery Lifetime	70 % after 300 cycles
DC Input	24 VDC – 0.8 A
DC Connector	5.5 mm x 2.1 mm
AC Input	No
AC Connector	No
Power Consumption (max.)	20 W
Wired DMX	Yes via PWB-2-86 (FP1-PWB / FP3-DTL)
CRMX Receiver	Built-in
BluetoothBridge BTB	Built-in
Wireless Protocols	CRMX, UHF, Bluetooth, WiFi
Wireless Range	CRMX/UHF up to 300 m / 330 yds Bluetooth up to 3 m / 3.3 yds
Infrared Control	Yes
Housing Material	Aluminium
IP Rating unwired	IP65 (only with PB15-PLG)
IP Rating wired with PWB-CAB-0.2/-1.5/-5/-10/-15	IP65
Ambient Operating Temperature	0 – 40 °C / 32 – 104 °F

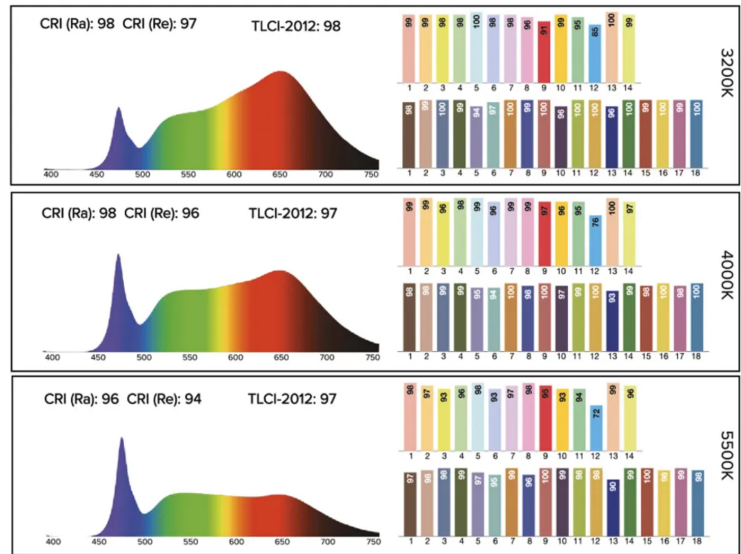
Weight	1.12 kg / 2.47 lbs
Dimensions (L x W x D)	91 mm x 91 mm x 94 mm / 3.6" x 3.6" x 3.7"
Mounting Options	4x Airline Tracks, 4x M5 threads, BrickBracket

*Typical value

What's in the Box

- 1 x **PixelBrick** (PB15)
- 1 x **BrickBracket** (PB15-BBR)
- 1 x **BrickConnect** (PB15-BCN)
- 1 x **17° BeamSoftener** (PB15-BSO)
- 1 x **30° Flood Filter** (PB15-FF)
- 2 x **DC Socket Covers** (PB15-PLG)

Typical Spectras



*Typical values

RF Characteristics

For PB15 PixelBrick

Wireless Modules	Modulation	ERP (Transmitter)	Channel Count
EU: UHF***(863-870MHz)	FHSS	<25mW	47
USA: UHF (917-922.20MHz)	FHSS	<25mW	53
AUS: UHF (922.30-927.50MHz)	FHSS	<25mW	53
SGP: UHF (920.50-924.50MHz)	FHSS	<25mW	41
KOR: UHF (917.9-921.5MHz)	FHSS	<25mW	10
RUS: UHF (868.75-869.12MHz)	FHSS	<25mW	6
JPN: UHF (922.80-926.40MHz)	FHSS	<25mW	19
CRMX (2402-2480MHz)	FHSS	—	79
Bluetooth 5.0 LE (2402-2480MHz)	FHSS	10mW (BLE)	40
WiFi (2412-2472MHz)	DSSS, OFDM	<100mW	13

***General allocation of frequencies for use by short-range radio applications
Spectrum usage regulations:

Frequency range in MHz ¹⁾	Maximum equivalent radiant power (ERP)	Additional parameters / frequency access and interference mitigation techniques
865 – 868	25 mW	Requirements for frequency access and mitigation techniques ³⁾ Alternatively, a maximum duty cycle ²⁾ of 1% can be used.
868,0 – 868,6868,0 – 868,6	25 mW	Requirements for frequency access and mitigation techniques ³⁾ Alternatively, a maximum duty cycle ²⁾ of 1% can be used.
868,7 – 869,2868,7 – 869,2	25 mW	Requirements for frequency access and mitigation techniques ³⁾ Alternatively, a maximum duty cycle ²⁾ of 0.1% can be used.
869,40 – 869,65	500 mW	Requirements for frequency access and mitigation techniques ³⁾ Alternatively, a maximum duty cycle ²⁾ of 10% can be used.
869,7 – 870,0	25 mW	Requirements for frequency access and mitigation techniques ³⁾ Alternatively, a maximum duty cycle ²⁾ of 1% can be used.

1) The use of adjacent frequency bands within this table as a single frequency band is permitted, provided that the specific conditions for each of these adjacent frequency bands are met. 2) „duty cycle“ means the ratio of $\Sigma(\text{Ton})/(\text{Tobs})$ expressed as a percentage, where ‚Ton‘ is the ‚on-time‘ of a single transmitting device and ‚Tobs‘ is the observation period Ton is measured in an observation frequency band (Fobs). Unless otherwise specified in this general allocation, Tobs is a continuous period of one hour and Fobs is the applicable frequency band in this general allocation (table). 3) Frequency access and interference mitigation techniques shall be used whose performance level at least meets the essential requirements of Directive 2014/53/EU or the Radio Equipment Act (FuAG). Where relevant techniques are described in harmonised standards, the references of which have been published in the Official Journal of the European Union pursuant to Directive 2014/53/EU, or parts thereof, performance shall be ensured which is at least equivalent to those techniques.

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