Datasheet PIXEL BRICK

Date: 18-Jul-2025 Version: 3.0

Say hello to our next-generation multi-purpose light. In addition to being a battery-powered uplight and PAR with 5 different beam options, multiple PixelBricks can be connected to form clusters and shapes. With about 10 cm edge length and 1kg weight, it is small and lightweight while still featuring a powerful output of high-quality light. The PixelBrick can be used for many stage, film and TV applications.

App | Wireless DMX | Max 20h | IP65

SPECIFICATIONS

Order Code	PB15
LED Engine	Titan LED Engine
Colors	RGBMintAmber
LED Power Draw	12 W
Luminous Flux 2700 K	405 Lumens
Luminous Flux 3200 K	475 Lumens
Luminous Flux 5500 K	395 Lumens
Light Output 2700 K @ 1 m	6 178 Lux
Light Output 3200 K @ 1 m	7 144 Lux
Light Output 5500 K @ 1 m	5 985 Lux
CRI (Ra)/ TLCI 3200- 6500 K*	≥96
Beam Angle	13°
Field Angle	25°
Strobe	0 - 25 Hertz
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
Power Consumption (max.)	20 W
Wired DMX	Yes (via FP1-PWB / FP3-DTL / PWB-2-86 / PWB-1-100)
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
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

All specifications provided are typical values and maybe subject to change without prior notice.

RF CHARACTERISTICS

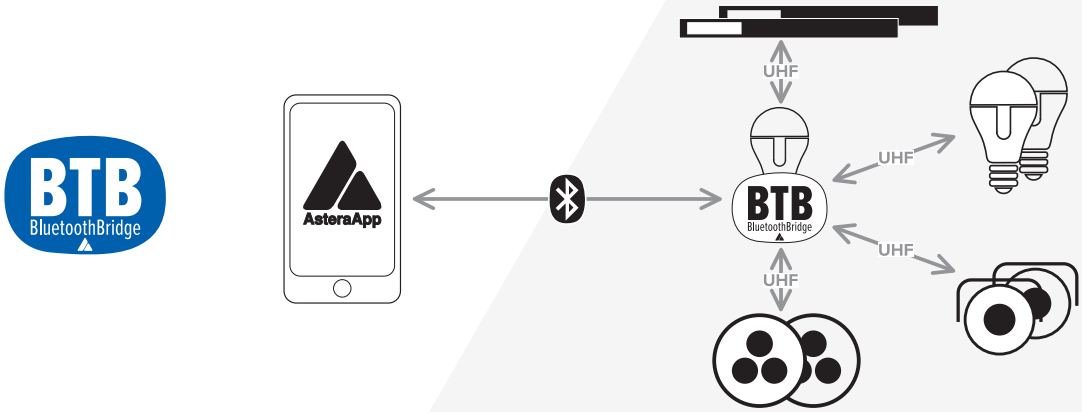
Wireless Modules	EU: UHF*** (863-870MHz)	USA: UHF (917-922.20MHz)	AUS: UHF (922.30-927.50MHz)	SGP: UHF (920.50-924.50MHz)	KOR: UHF (917.9-921.5MHz)
Modulation	FHSS	FHSS	FHSS	FHSS	FHSS
ERP (Transmitter)	<25mW	<25mW	<25mW	<25mW	<25mW
Channel Count	47	53	53	41	10

Wireless Modules	RUS: UHF (868.75-869.12MHz)	JPN: UHF (922.80-926.40MHz)	CRMX (2402-2480MHz)	Bluetooth 5.0 LE (2402-2480MHz)	WiFi (2412-2472MHz)
Modulation	FHSS	FHSS	FHSS	FHSS	DSSS, OFDM
ERP (Transmitter)	<25mW	<25mW	-	10mW (BLE)	<100mW
Channel Count	6	19	79	40	13

***General allocation of frequencies for use by short-range radio applications

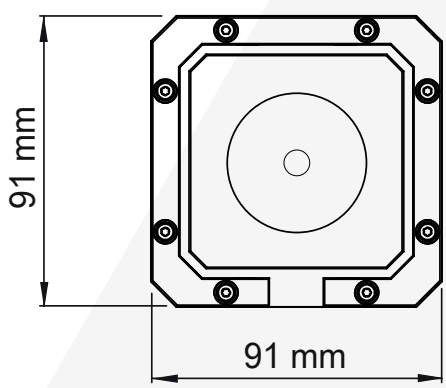
PIXELBRICK AS BLUETOOTHBRIDGE

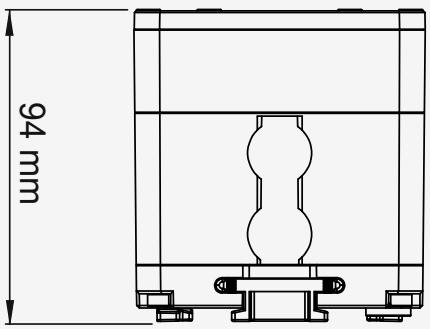
Connect directly to selected Astera lights via Bluetooth. This master light will revert AsteraApp commands to itself and other Astera lights via UHF band. Works as well with the AsteraBox.

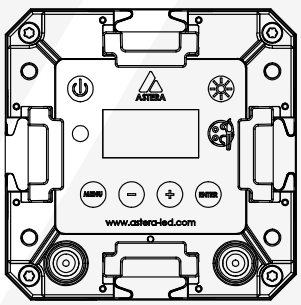


DRAWINGS

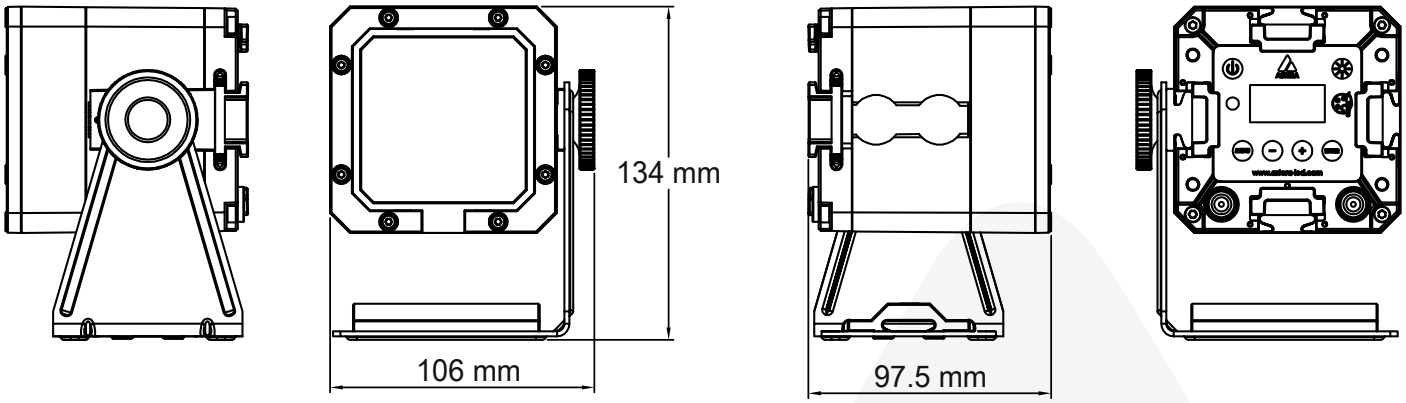
without bracket



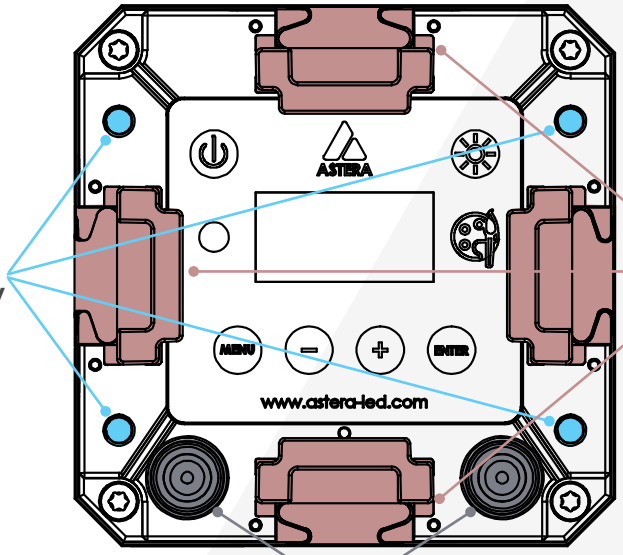




with bracket

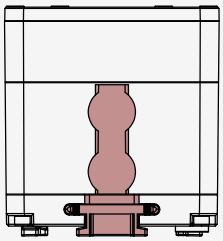


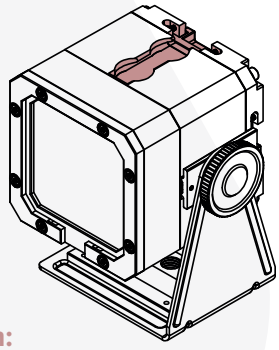
SOCKETS, AIRLINE TRACK, THREADS



M5 threads for hanging or safety

Power+Data IN/OUT



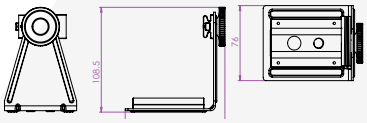


BrickMount System:
4 Airline Tracks with quick lock for flexible and safe mounting
Quickly merge several PixelBricks to build clusters and shapes.

ACCESSORIES

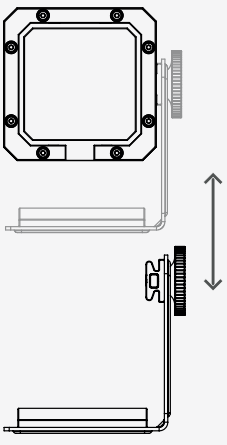
BrickBracket
PB15-BBR

included

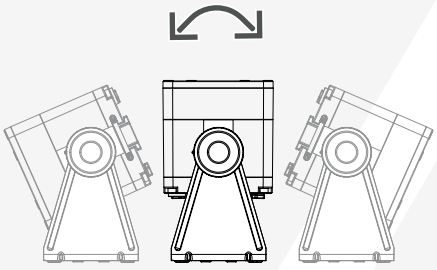


Weight (1pc): 270g / 5.59lbs

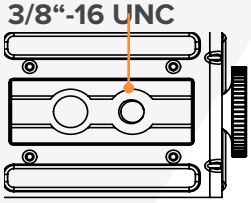
Removeable



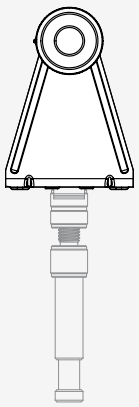
Tiltable



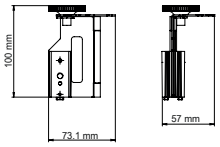
3/8“-16 UNC



AirlineTrack on bottom for mounting



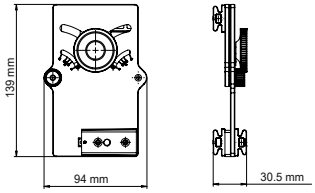
BrickHinge
PB15-BHI



Weight: 220g / 0.48lbs

BrickHinge on PixelBrick to create several shapes

BrickTilt
PB15-BTLT



Weight: 270g / 0.59lbs

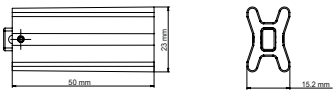
BrickTilt on PixelBrick

Tilt the angle of the Pixel-Brick outward or inward

Build creative shapes

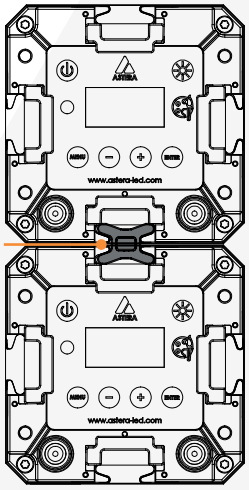
BrickConnect
PB15-BCN

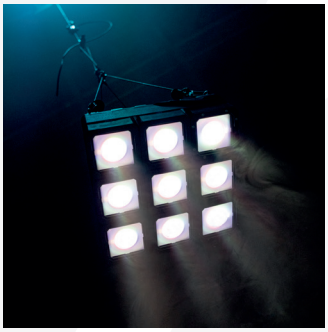
included



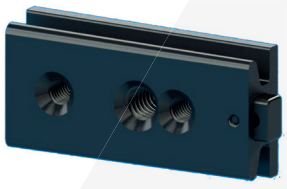
Weight (1pc): 27g / 0.059lbs

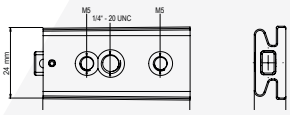
Connect your PixelBricks to several shapes





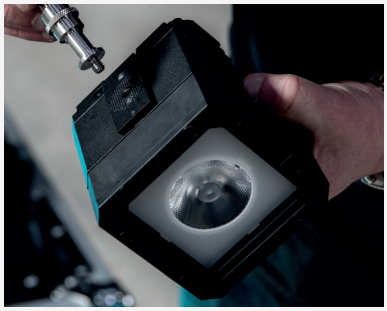
BrickMount
PB15-BMO



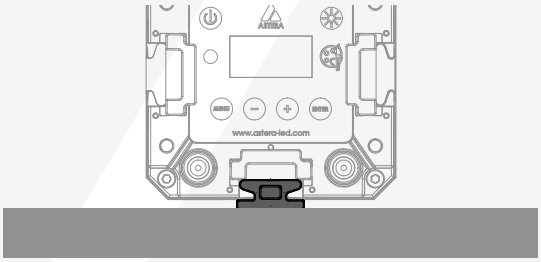


Weight (1pc): 25g / 0.55 lbs

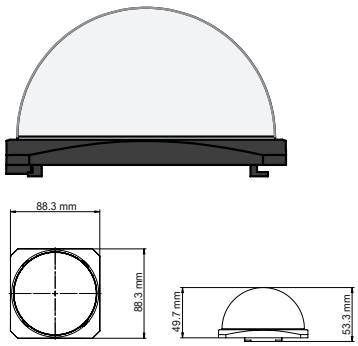
BrickMount on PixelBrick



Mounted on plate

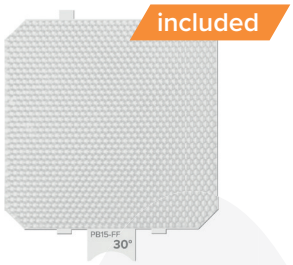


BrickDome
PB15-BDM



BrickDome on PixelBrick

Filters



FloodFilter 30°
PB15-FF

BeamSoftener 17°
PB15-BSO

TrackPin
AX-TP

EyeBolt
FP1-EBLT

PowerBox
PWB-2-86

2x86 W

PowerBox
PWB-1-100

1x100 W

Power/Data Cable 5m, 10m, 15m
PWB-CAB-5/-10/-15

Power/Data Cable 0,2m
PWB-CAB-0.2

ChargingCase
PB15-CHRCSE

Weight (empty)6.8 kg / 15 lbs
Weight (full): 16.3 kg / 36 lbs

Dimensions:
541.5 mm x 400 mm x 205.5 mm /
21.3“ x 17.44“ x 8.1“

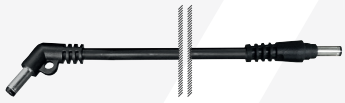
AccessoryCase
PB15-ACCCSE

Weight (empty): 7kg / 15.4lbs
Weight (full): 13.3kg / 29.3lbs

Dimensions:
541.5 mm x 400 mm x 205.5 mm /
21.3“ x 17.44“ x 8.1“

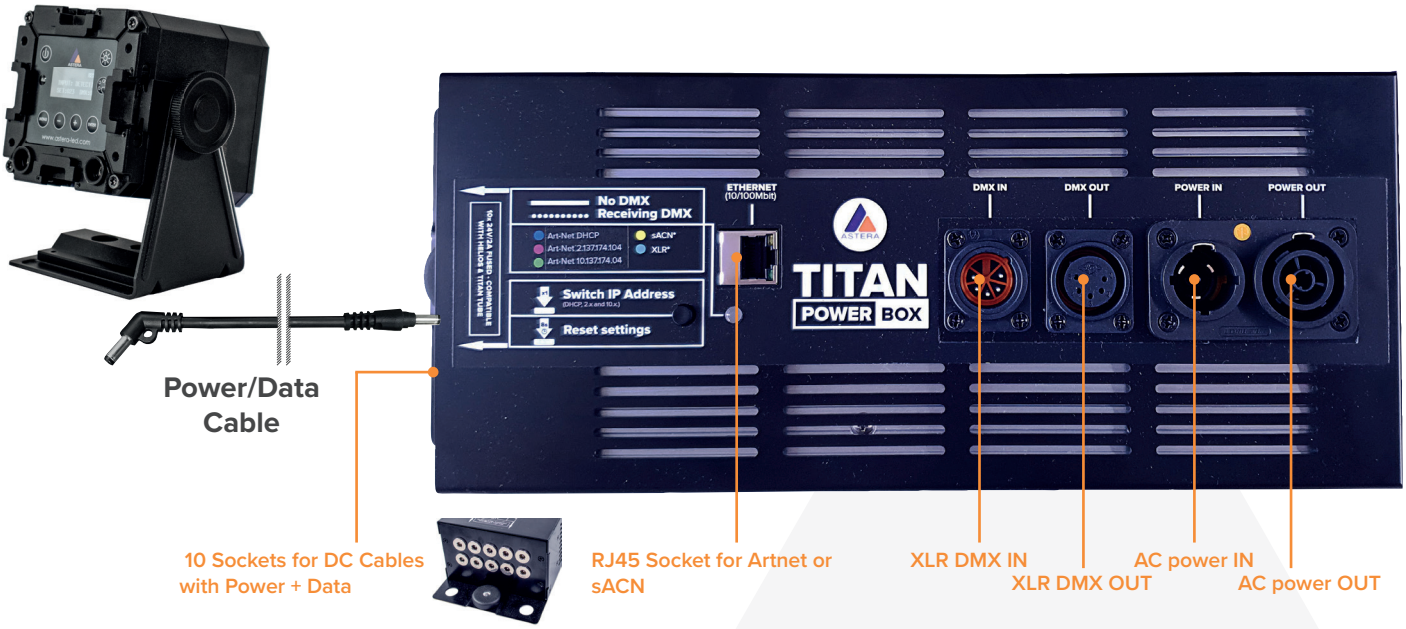
CHARGING & CONNECTING

With PowerBox 2x86 (PWB-2-86)

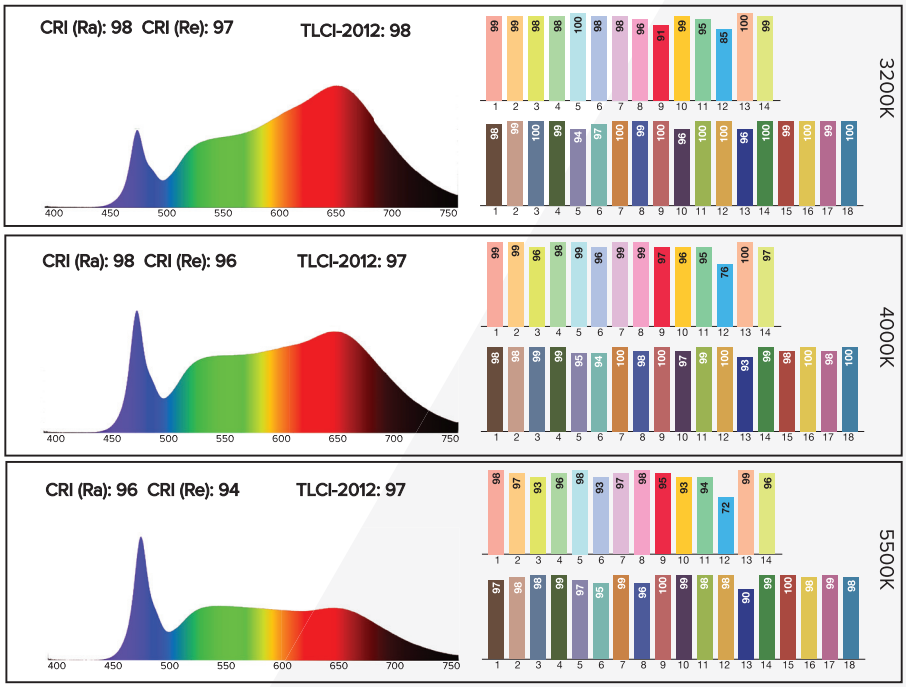


Power/Data Cable

With Titan PowerBox (FP1-PWB)



TYPICAL SPECTRAS



Typical values