Datasheet PIXEL BRICK

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 10cm 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.

Max 20h **Wireless DMX** **IP65** **App**

SPECIFICATIONS

	PixelBrick
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

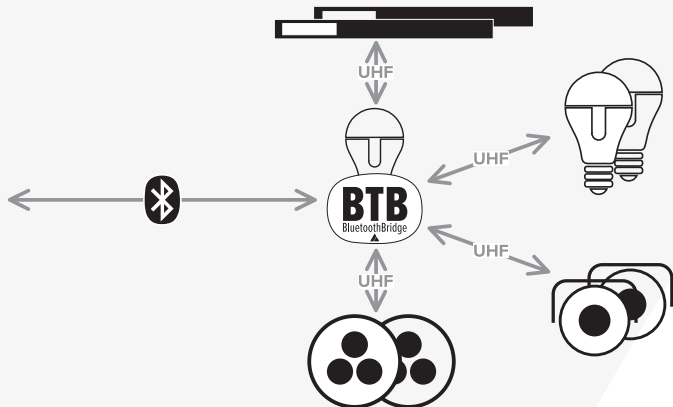*Typical value

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

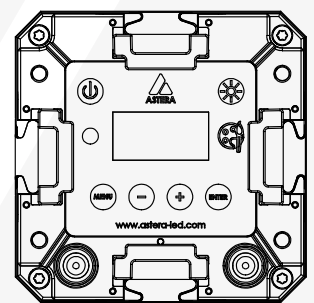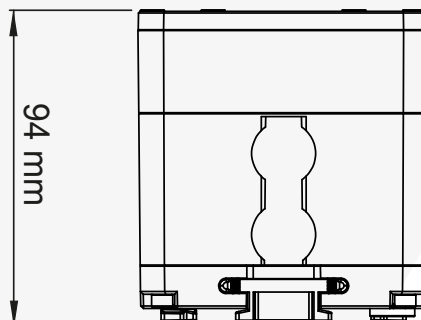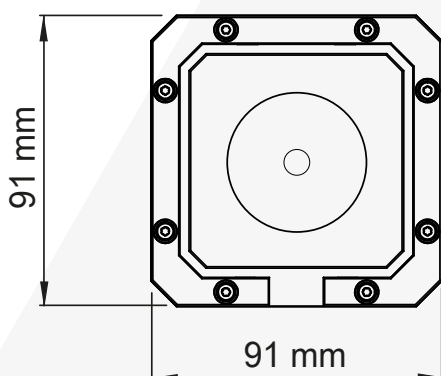| Wireless Modules	RUS: UHF (868.75-869.12MHz)	JPN: UHF (922.80-926.40MHz)	CRMX (2402-2480MHz)	Bluetooth 5.0 LE (2402-2480MHz)	WiFi (2412-2472MHz)
Modulation	FHSS	FHSS	FHSS	FHSS	DSSS, OFDM
ERP (Transmitter)	<25mW	<25mW	-	10mW (BLE)	<100mW
Channel Count	6	19	79	40	13

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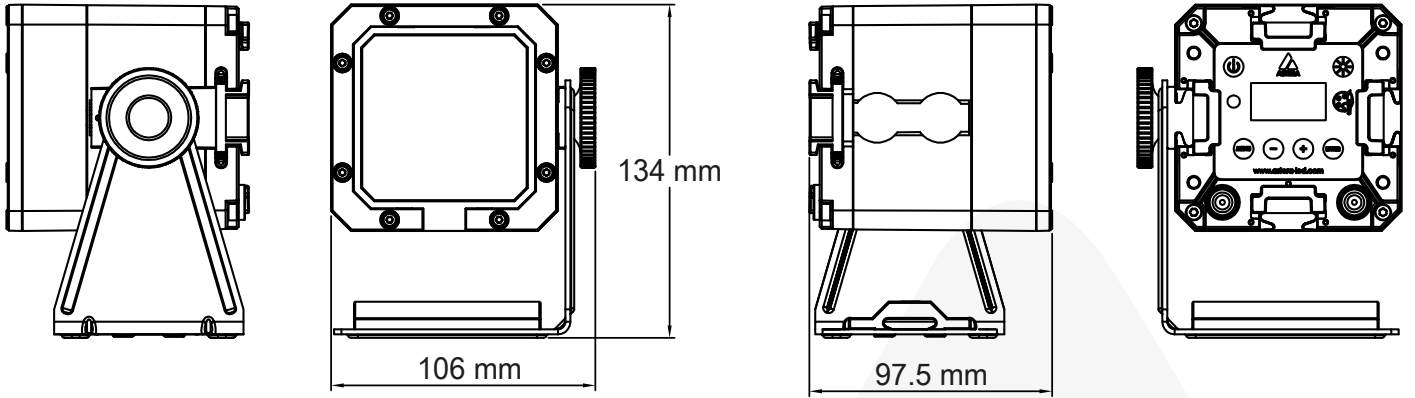
PixelBrick as BluetoothBridge

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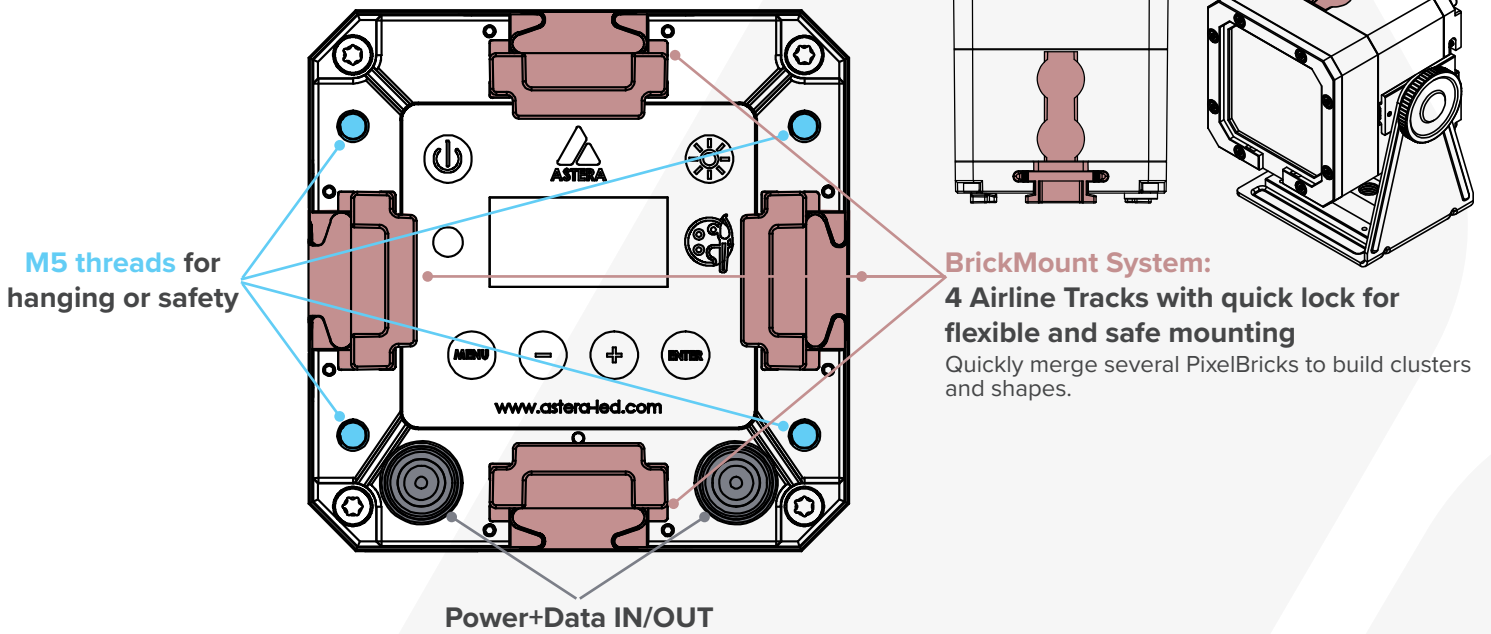band. Works as well with the AsteraBox.

DRAWINGS
WITHOUT BRACKET

91 mm

91 mm

94 mm

WITH BRACKET

134 mm

106 mm

97.5 mm

SOCKETS, AIRLINE TRACK, THREADS

M5 threads for hanging or safety

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

Power+Data IN/OUT

ACCESSORIES

BrickBracket
PB15-BBR

included

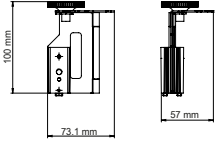Weight (1pc): 270g / 5.59lbs

Removeable

Tiltable

3/8"-16 UNC
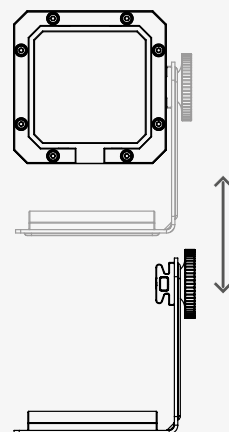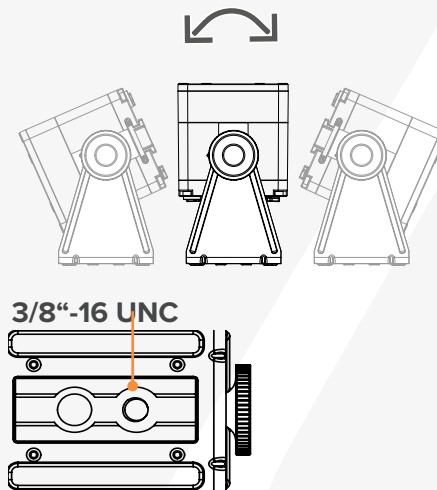
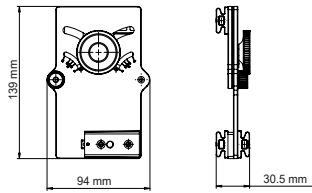**AirlineTrack on bottom for mounting**
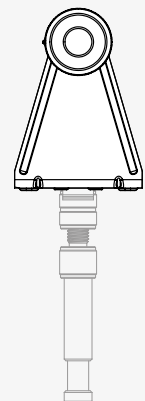
BrickHinge
PB15-BHI

Weight: 220g / 0.48lbs

BrickHinge on PixelBrick to create several shapes

BrickTilt
PB15-BTLT

Weight: 270g / 0.59lbs

BrickTilt on PixelBrick

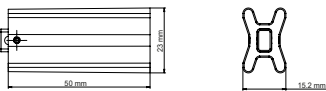### Tilt the angle of the Pixel-Brick outward or inward
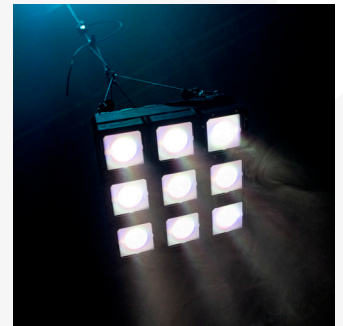
Build creative shapes
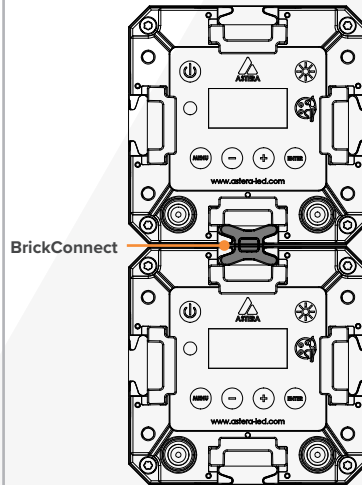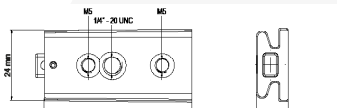

BrickConnect
PB15-BCN

included
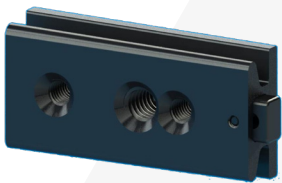
Weight (1pc): 27g / 0.059lbs

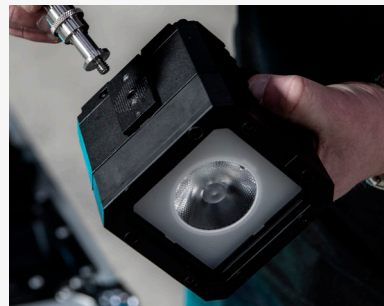### Connect your PixelBricks to several shapes

BrickConnect

BrickMount
PB15-BMO

Weight (1pc): 25g / 0.55 lbs

BrickMount on PixelBrick

Mounted on plate
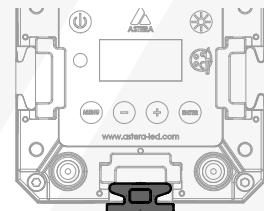
BrickDome
PB15-BDM

88.3 mm

88.3 mm

49.7 mm

53.3 mm
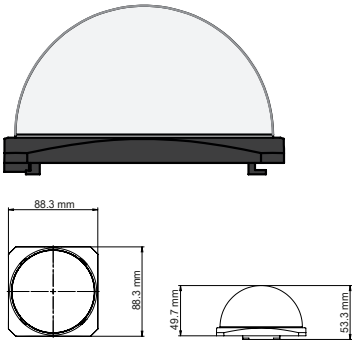
BrickDome on PixelBrick

Filters

included

included

PB15-FF
30°
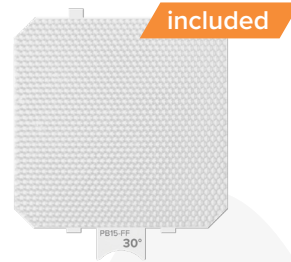
PB15-BSO
17°

FloodFilter 30°
PB15-FF

BeamSoftener 17°
PB15-BSO

TrackPin
AX-TP

EyeBolt
FP1-EBLT

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
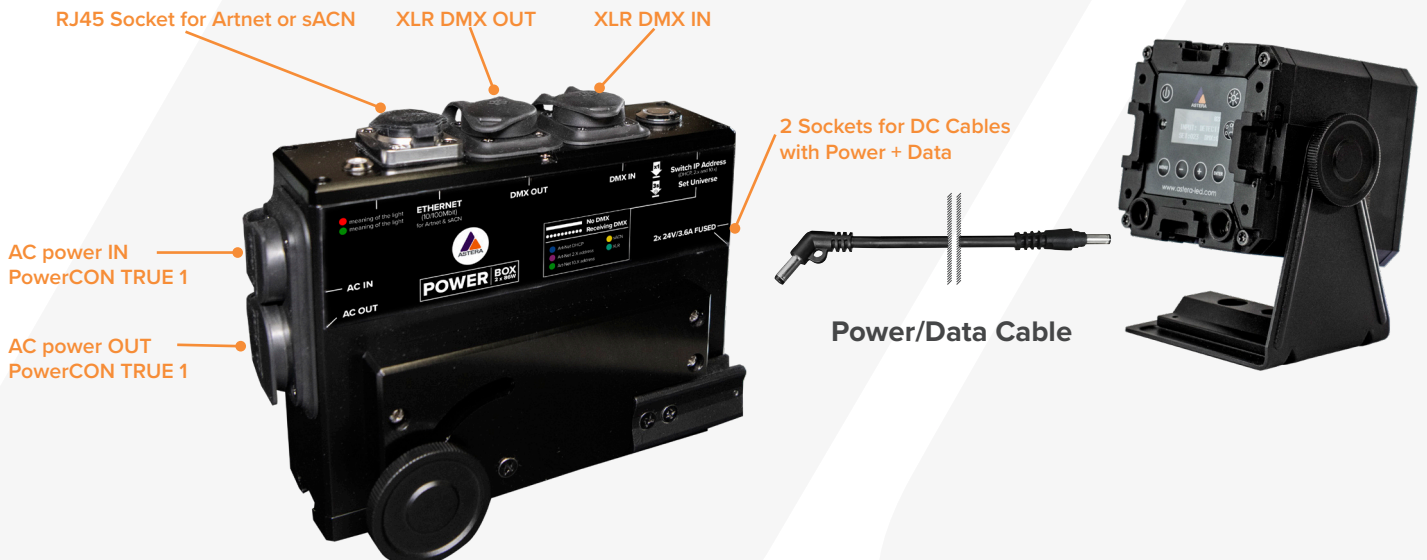

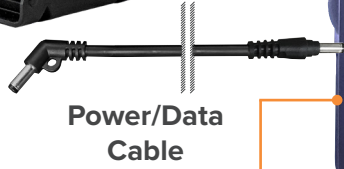
Weight (empty): 7kg / 15.4lbs
Weight (full): 13.3kg / 29.3lbs

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)

RJ45 Socket for Artnet or sACN

XLR DMX OUT

XLR DMX IN

2 Sockets for DC Cables with Power + Data

AC power IN PowerCON TRUE 1

AC power OUT PowerCON TRUE 1

Power/Data Cable

With Titan PowerBox (FP1-PWB)

Power/Data Cable

No DMX
Receiving DMX

Art-Net DHCP
Art-Net 2.137.174.104
Art-Net 10.137.174.04

sACN*
XLR*

ETHERNET
(10/100Mbit)

Switch IP Address
(DHCP, 2.x and 10.x.)

Reset settings

10a 24V/2A FUSED · COMPATIBLE WITH HELIOS & TITAN TUBE

DMX IN   DMX OUT   POWER IN   POWER OUT

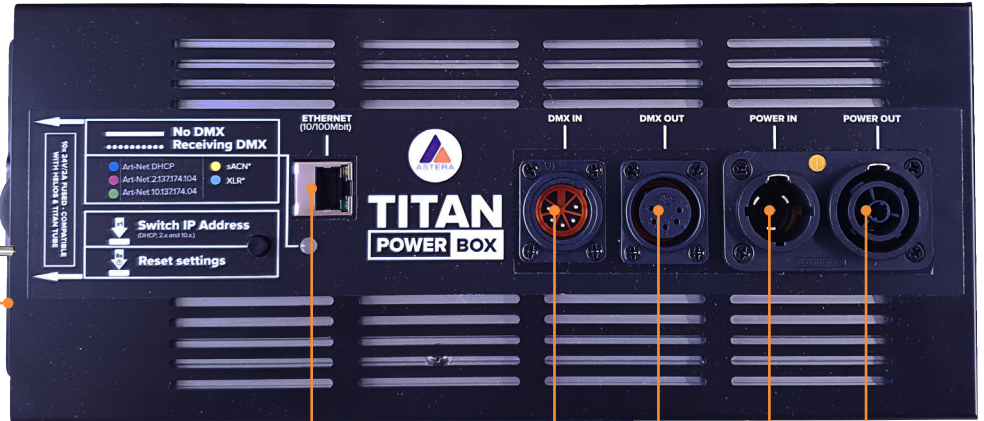**Titan POWER BOX**

10 Sockets for DC Cables with Power + Data

RJ45 Socket for Artnet or sACN

XLR DMX IN
XLR DMX OUT

AC power IN
AC power OUT

TYPICAL SPECTRAS

3200K

CRI (Ra): 98   CRI (Re): 97   TLCI-2012: 98

Top row: 99 99 96 96 100 98 98 96 91 99 95 85 100 99 (1–14)
Bottom row: 96 99 100 99 94 97 100 99 100 96 100 100 96 100 99 100 99 100 (1–18)

4000K

CRI (Ra): 98   CRI (Re): 96   TLCI-2012: 97

Top row: 99 99 96 96 99 99 99 99 97 96 95 76 100 97 (1–14)
Bottom row: 98 98 99 99 95 94 100 98 97 99 100 93 99 98 100 98 100 (1–18)

5500K

CRI (Ra): 96   CRI (Re): 94   TLCI-2012: 97

Top row: 98 97 98 96 98 93 97 98 95 93 94 72 99 96 (1–14)
Bottom row: 97 98 98 96 97 95 99 96 100 99 98 90 99 100 99 99 98 (1–18)

Typical values