



Datasheet

AX2₅₀ PIXELBAR

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Date: 03-Jul-2025 Version: 2.0



The Astera AX2-100 / 50 PixelBar is a professional RGB+Amber+Mint LED (TITAN LED Engine) wall washer with ultra high TLCI/ CRI and excellent color rendering as well as Astera's flicker free PWM technology. Built-in CRMX and UHF Modules provide the same connectivity known from other Astera fixtures. Numerous professional features and mounting options make the AX2 a versatile IP65 rated battery powered fixture for the Film, Broadcast and Event industry. This device was designed for indoor and outdoor use.



App



Wireless DMX



Max 20h



IP65

SPECIFICATIONS

Yes (via 5-pin XLR)	AX2-50	AX2-100
LED Engine	TITAN LED Engine	
Colors	RGBMintAmber	
LED Power Draw	40 W	80 W
Luminous Flux 2 700 K	1 800 Lumens	3 600 Lumens
Luminous Flux 3 200 K	2 230 Lumens	4 460 Lumens
Luminous Flux 5 500 K	2 265 Lumens	4 530 Lumens
Light Output 2700 K @ 1 m	8 995 Lux	17 995 Lux
Light Output 3200 K @ 1 m	11 060 Lux	22 125 Lux
Light Output 5500 K @ 1 m	11 010 Lux	22 025 Lux
CRI (Ra) / TLCI 3200 - 6500 K	≥96	
Beam Angle	21°	
Strobe	0 - 25 Hertz	
Pixels	8	16
Battery Runtime	up to 20 hours	
Battery Runtime (max. Brightness)	2 h 50 m	
Battery Lifetime	70 % after 300 cycles	
Charging Time (normal)	5 hours	
AC Input	96-264 VAC, 50/60 Hertz, 2 A, 49 W	96-264 VAC, 50/60 Hertz, 2 A, 104 W
AC Connector	PowerCON TRUE1 IN/OUT	
Wired DMX	Yes (via 5-pin XLR)	
CRMX Receiver	Built-in	
BarConnect+	Yes	
Wireless Protocols	CRMX, UHF	
Wireless Range	CRMX/UHF up to 300 m / 330 yds	
Infrared Control	Yes	
IP Rating	IP65	
Ambient Operating Temperature	0 - 40 °C / 32 - 104 °F	
Weight	4.5 kg / 9.9 lbs	7.4 kg / 16.3 lbs
Dimensions without hook (L x W x D)	500 mm x 165 mm x 65 mm / 19.7" x 6.5" x 2.6"	1000 mm x 165 mm x 65 mm / 39.4" x 6.5" x 2.6"
Dimensions with hook (L x W x D)	520 mm x 165 mm x 65 mm / 20.5" x 6.5" x 2.6"	1020 mm x 165 mm x 65 mm / 40.1" x 6.5" x 2.6"
Mounting Options	AirlineTrack, 2x AX2 Feet (with 3/8" - 16 UNC thread)	

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

RF CHARACTERISTICS

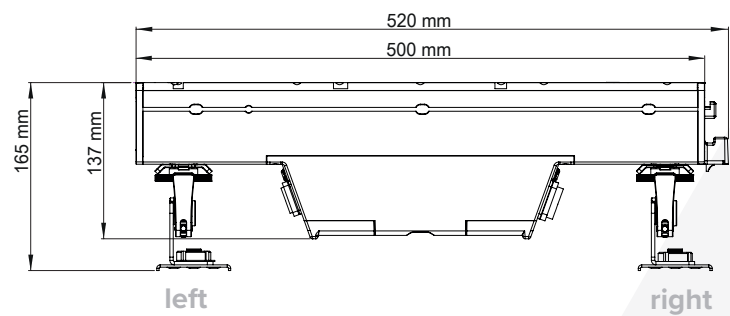
Wireless Modules	EU: UHF*** (863-870MHz)	USA: UHF (917-922.20MHz)	AUS: UHF (922.30-927.50MHz)	SGP: UHF (920.50-924.50MHz)	KOR: UHF (917.9-921.5MHz)
Modulation	FHSS	FHSS	FHSS	FHSS	FHSS
ERP (Transmitter)	<25mW	<25mW	<25mW	<25mW	<25mW
Channel Count	47	53	53	41	10

Wireless Modules	RUS: UHF (868.75-869.12MHz)	JPN: UHF (922.80-926.40MHz)	CRMX (2402-2480MHz)
Modulation	FHSS	FHSS	FHSS
ERP (Transmitter)	<25mW	<25mW	-
Channel Count	6	19	79

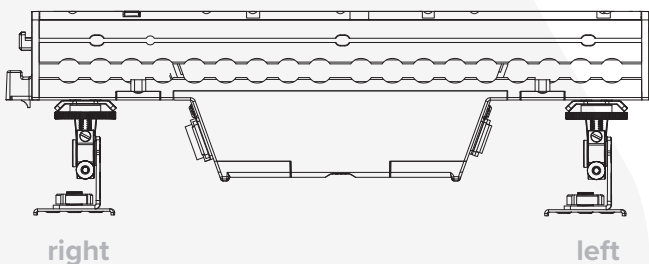
***General allocation of frequencies for use by short-range radio applications

DRAWINGS AX2-50

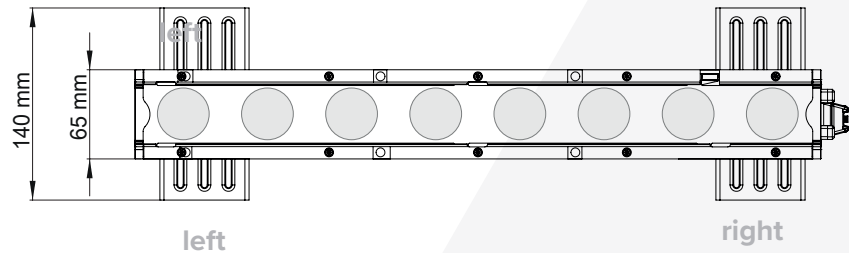
Front view



Rear view

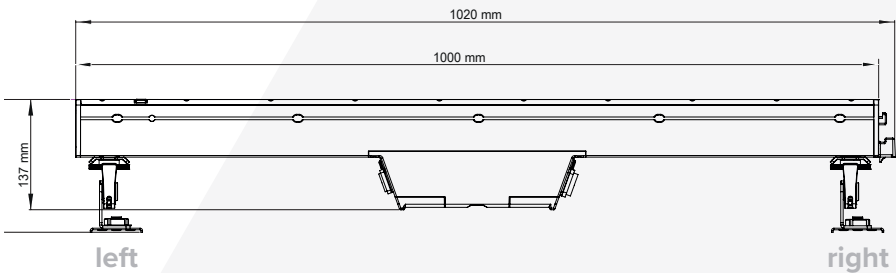


Top view

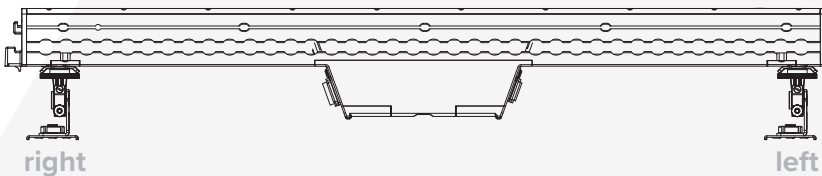


DRAWINGS AX2-50

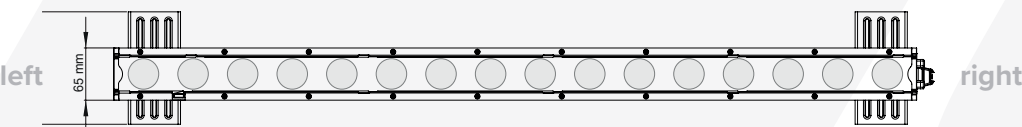
Front view



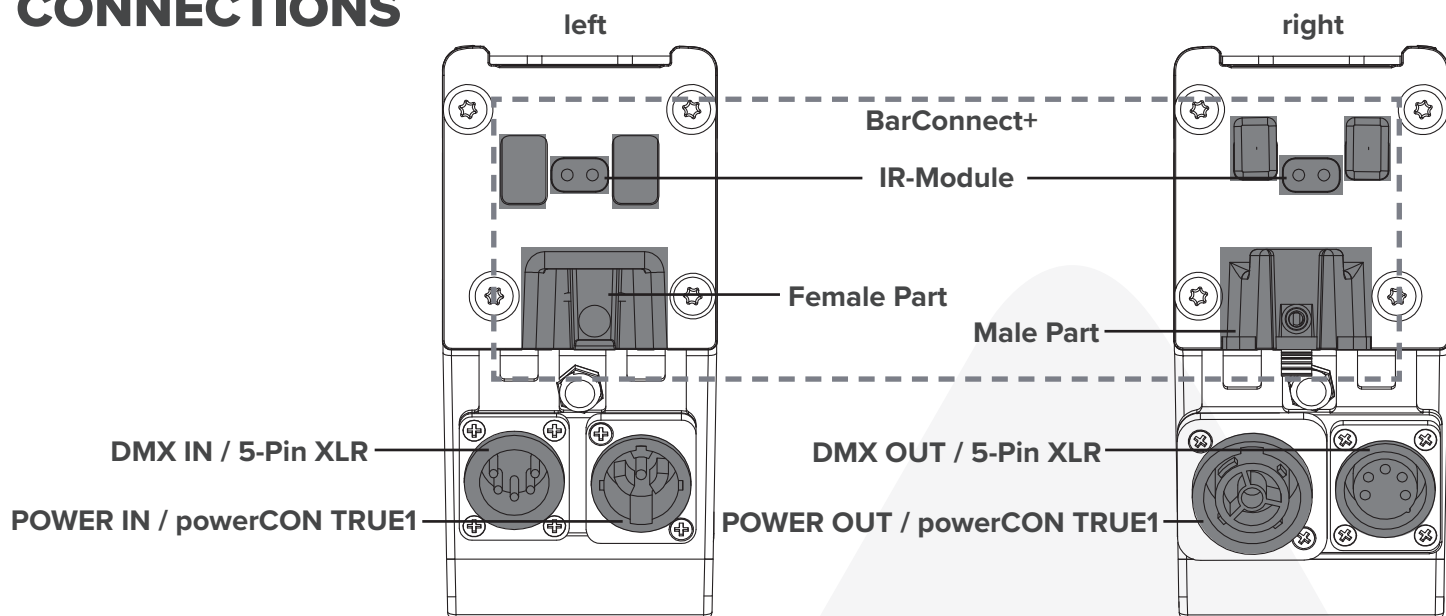
Rear view



Top view



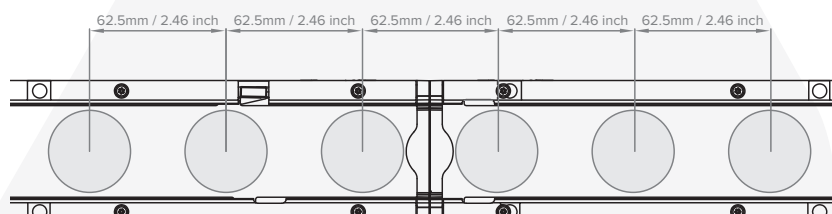
CONNECTIONS



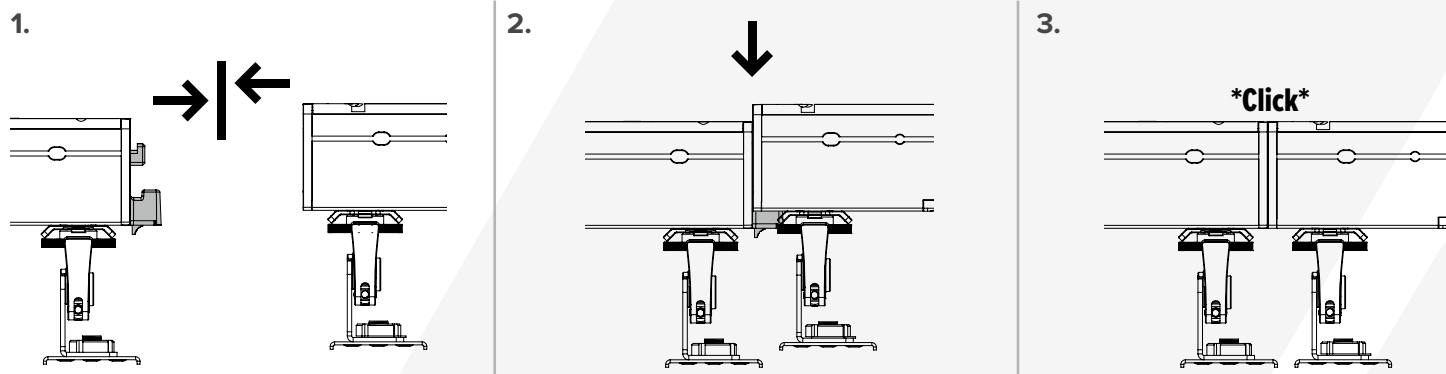
BARCONNECT+

Quickly merge several PixelBars while maintaining the pixel pitch. Aim connected units together to maintain consistent lighting or hang them. The integrated IR modules enable auto-addressing for AsteraApp and DMX control.

Consistent pixel pitch between LEDs



Connect AX2

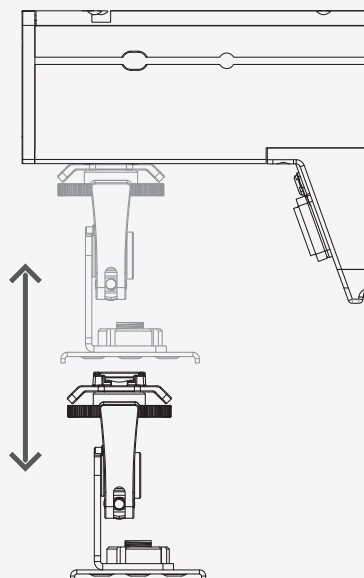


ACCESSORIES FEATURES

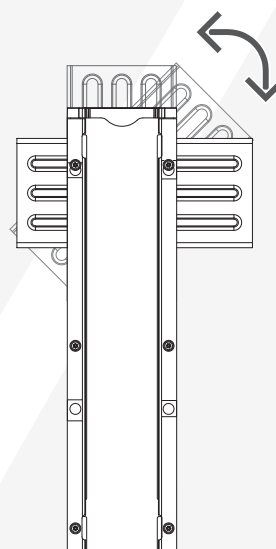
AX2 Feet AX2-FT



Removeable

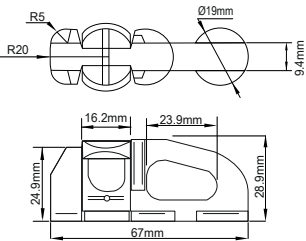


Rotatable



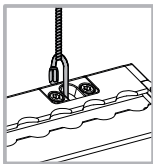
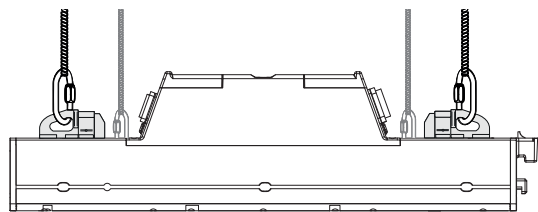
Weight (1pc): 390g / 0.86 lbs

TrackHanger
AX-TH



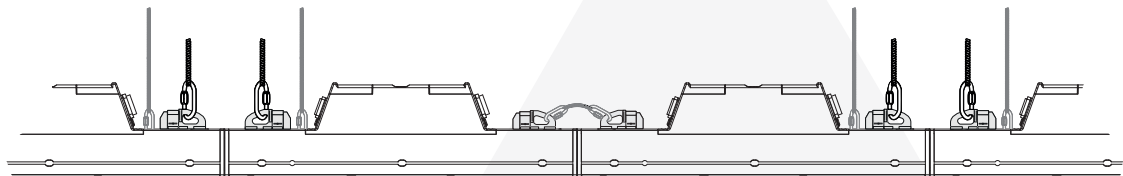
Weight: 125g / 0.27lbs

Hang with TrackHanger

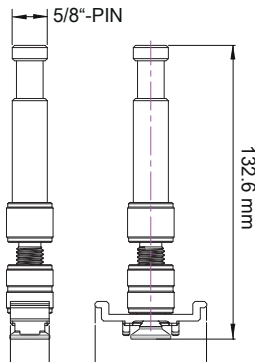


Please use
Safety rigging point
Please check the safety
regulations in your region.

Permitted way hanging/safeing several AX2

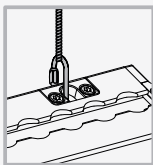
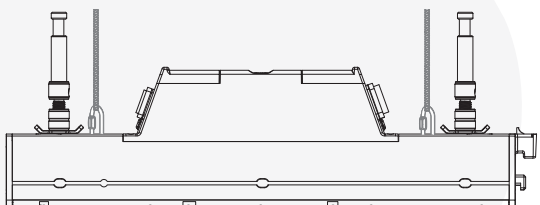
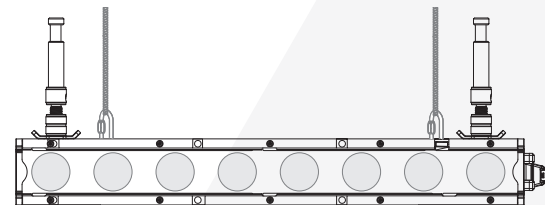


TrackPin
AX-TP



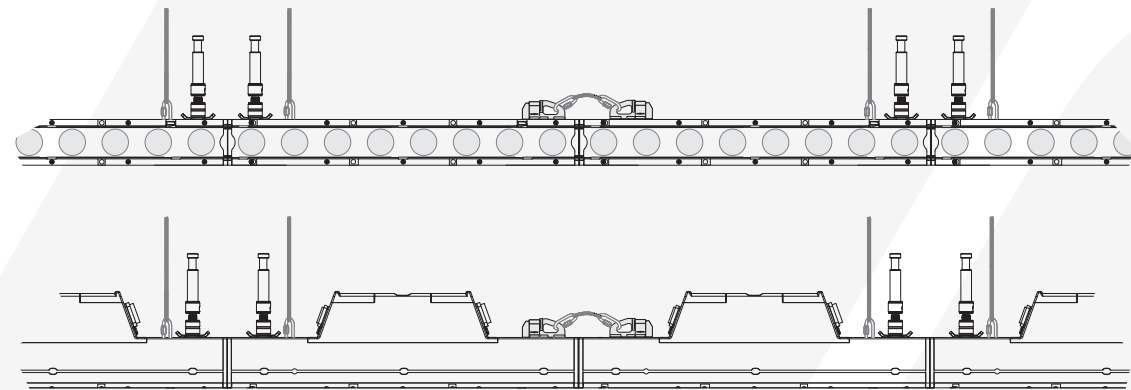
Weight: 238g / 0.52lbs

Mount with TrackPin



Please use
Safety rigging point
Please check the safety
regulations in your region.

Permitted way hanging/safeing several AX2



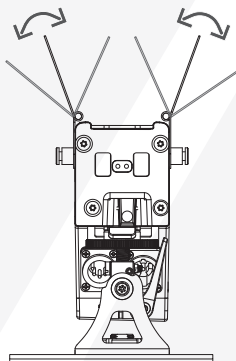
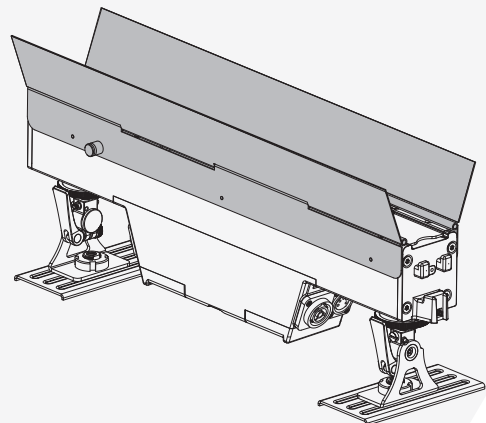
Barndoor

AX2-50-BD / AX2-100-BD
(Single units)



Weight (1pc): AX2-50 500g / 1.10lbs
AX2-100 990g / 2.18lbs

Control light shape with Barndoors



FlyBar
AX2-FB



Hang the AX2 with FlyBar
(please refer to FlyBar datasheet
for usage and safety instructions)



Jump Cable
AX2-JC



Charging Case
AX2-CHRCSE-50 / -100

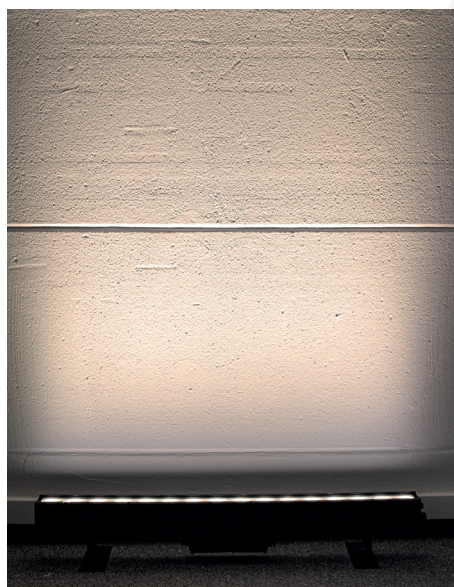


AX2-50



AX2-100

LIGHT OUTPUT PERFECTLY MIXED



TYPICAL SPECTRAS

