Astera's PlutoFresnel is an exceptional solution for film, studio, and event lighting. PlutoFresnel boasts an impressive output comparable to a traditional 300W Tungsten Fresnel. With a beam angle of 15° to 60° without color fringing, wireless and wired DMX control, these lights offer impressive performance while consuming only 80W. Easy to mount and adjust with removable handles and YokeBases, they enhance creativity and productivity on any set.

Max 20h **Wireless DMX** **IP55** **App**

FEATURES

Built-in battery
2 hours on MAX Runtime

Built-in battery for 2 hours on MAX Runtime.

External Battery Option
Connect one or two RuntimeExtenders with V-Mount or Gold Mount battery for additional Runtime. One 14.4 V battery can operate the light on reduced power. A single 26V battery or two 14.4V batteries allow full power output.

Removable Lens
Slide out Barndoor and Lens to create an Open Source fixture.

Yoke Quick-Release
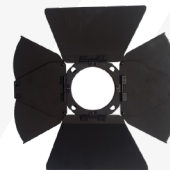The light can easily be taken out of its Yoke.

Removable Handle
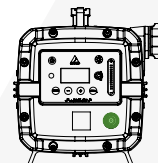TrackHandle can be removed or inserted into the Airline Tracks.

Barndoor
The Barndoor contains a total of 8 leaves, 4 of them can be slid out if needed.

Wired DMX
Data can be added with a Datalink or PowerBox via Power/Data Combination cables.

SPECIFICATIONS

|	PlutoFresnel
Order Code	AF80
LED Engine	Titan LED Engine
Colors	RGBMintAmber
Total LED Power	105 W
LED Power Draw	80 W
CRI (Ra)/ TLCI 3200- 6500 K*	≥96
Beam Angle	15° - 60°
Strobe	0 - 25 Hertz
Pixels	1
Battery Runtime	up to 20 hours
Battery Runtime (max. Brightness)	3h
Battery Lifetime	80 % after 400 cycles
DC Input	24 VDC, 80 W
DC Connector	5.5 mm x 2.1 mm
Power Consumption (max.)	80 W
Wired DMX	Yes (via FP3-DTL / PWB-2-86)
CRMX Receiver	Built-in
BluetoothBridge BTB	Built-in
Wireless Protocols	CRMX, UHF, Bluetooth, WIFI, RDM
Wireless Range	CRMX/UHF up to 300 m / 330 yds Bluetooth up to 3 m / 3.3 yds
Infrared Control	Yes
TouchSlider	Yes
Housing Material	Polymer & Metal
IP Rating unwired	IP55 (only with PB15-PLG)
IP Rating wired	IP55 (only with PWB-CAB-0.2/-1.5/-5/-10/-15)
Ambient Operating Temperature	0 - 40 °C / 32 - 104 °F
Weight (with AF80-FL, AF80-BD)	4.637 kg / 10.22 lbs
Weight (with AF80-FL, AF80-BD, AF80-YK, 2x AF80-YKB, AF80-THD)	6.493 kg / 14.31 lbs
Dimensions L x W x H	281.9 mm x 153.5 mm x 161.8 mm / 11.1" x 6.0" x 6.4"
Dimensions L x W x H (with AF80-YK, 2x AF80-YKB)	281.9 mm x 244.7 mm x 323 mm / 11.1" x 9.6" x 12.7"
Mounting Options	4 x AirlineTracks, 1/2" hole, 3/8" thread, 1 x BrickMount (PB15-BMO)

*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

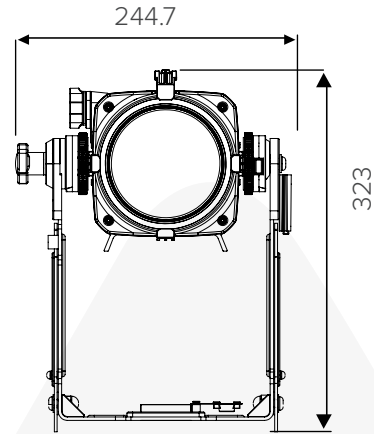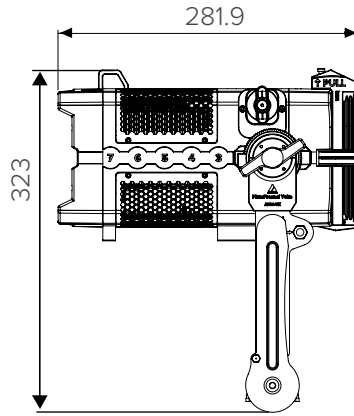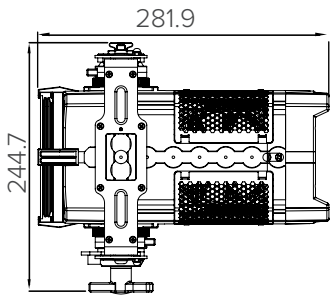***General allocation of frequencies for use by short-range radio applications

BUILT-IN FEATURES

YokeBase

Tilt lock

RuntimeExtender

DC Input

Display with Touch Slider
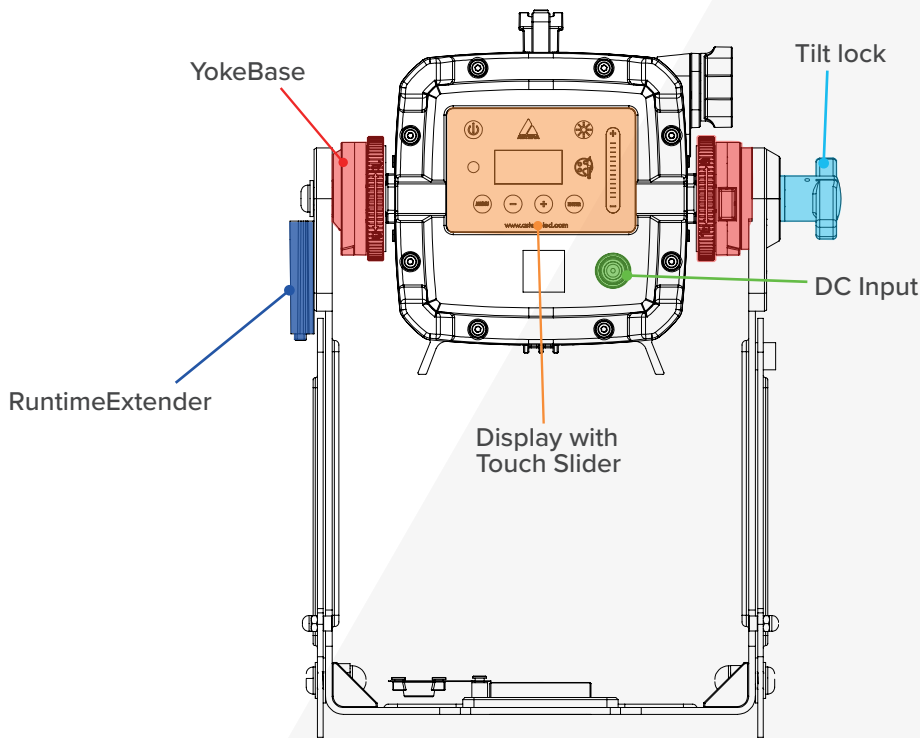
DRAWINGS WITHOUT ACCESSORIES

153.5

281.9

161.8

137

153.5

281.9

161.8

137
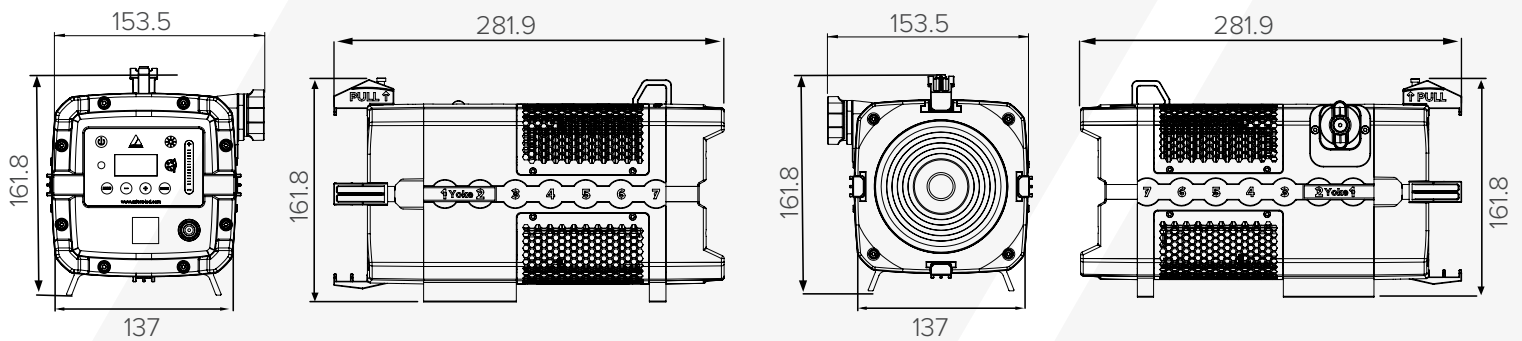
DRAWINGS WITH ACCESSORIES

281.9

244.7

281.9

323

244.7

323

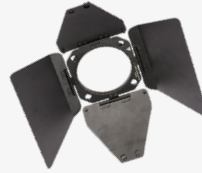# INCLUDED ACCESSORIES

Yoke
AF80-YK

YokeBase
AF80-YKB

Fresnel Lens
AF80-FL

Barndoor
AF80-BD

TrackHandle
AX-THD

OPTIONAL ACCESSORIES

RuntimeExtender
REX1-VM
REX1-GM

V-Mount   Gold Mount

Projection Lens
Coming late 2023

Charging Case (empty)
AF80-CSE

PlutoFresnel Kit
AF80-KIT

2x PlutoFresnel
(AF80)

2x Fresnel Lens
(AF80-FL)

2x Barndoor
(AF80-BD)

2x Yoke
(AF80-YK)

4x YokeBase
(AF80-YKB)
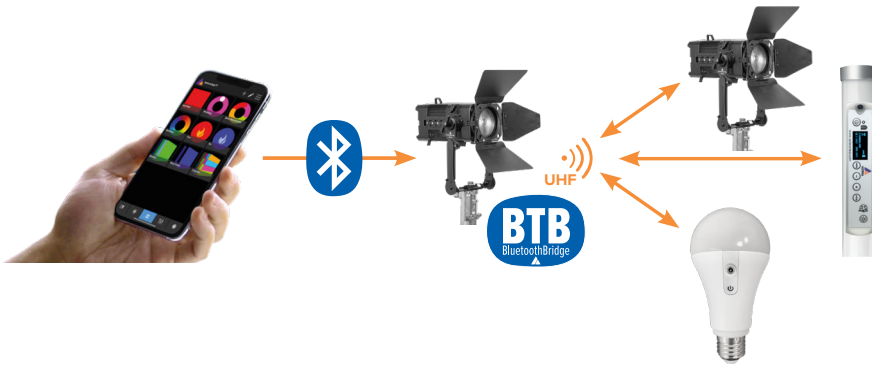
2x TVMP Adapter
(AX-TVMP)

2x TrackHandle
(AX-THD)
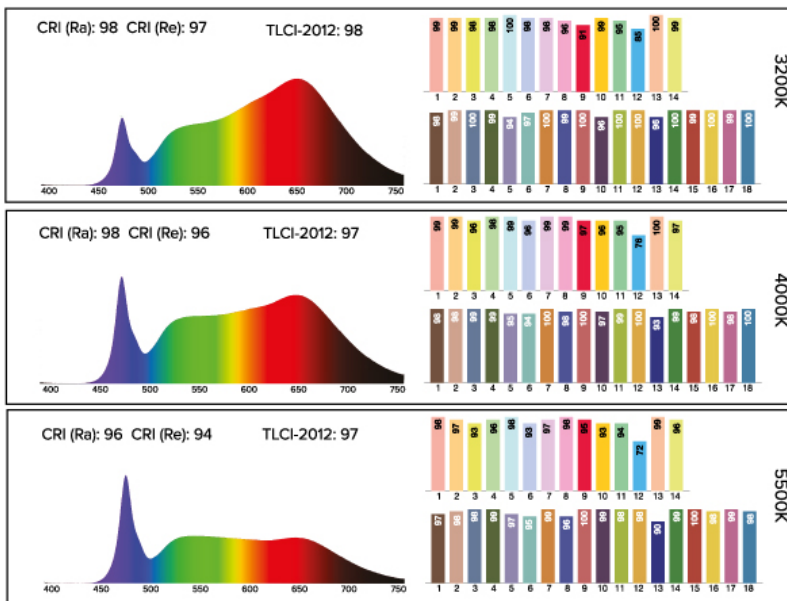
**2x Hyperion Tube
Power Supply**
(FP3-CHR)

1x Case
(AF80-CSE)

PLUTOFRESNEL AS BLUETOOTH BRIDGE

Connect the App directly to a PlutoFresnel via Bluetooth. This light will then transmit commands from the AsteraApp to all other PlutoFresnels and other Astera lights via the UHF band.

TYPICAL SPECTRAS

Typical values