Datasheet PLUTO FRESNEL

Astera's PlutoFresnel is ideal for film, studio, and event lighting, matching the output of a 300 W Tungsten Fresnel while using only 80 W. With a beam angle of 15°–60°, color fringing-free performance, and DMX control, it's easy to mount and adjust, enhancing creativity on any set.

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

FEATURES

Built-in battery
3 hours on MAX Runtime

Built-in battery for 3 hours on MAX Runtime.

External Battery Option
Connect RuntimeExtender with V-Mount or Gold Mount battery for additional runtime.

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
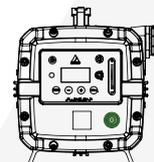TrackHandle can be removed or inserted into the Airline Tracks.

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

Order Code	AF80
LED Engine	Titan LED Engine
Colors	RGBMintAmber
Tungsten Equivalent	Brighter than a 300 W
LED Power Draw	80 W
Luminous Flux 3200 K	2232 Lumens
Luminous Flux 4000 K	2642 Lumens
Luminous Flux 5500 K	2847 Lumens
Light Output 5500 K 15° @ 1m	38 167 Lux
Light Output 5500 K 35° @ 1m	10 028 Lux
Light Output 5500 K 60° @ 1m	2872 Lux
CRI (Ra)/ TLCI 3200- 6500 K*	≥96
Beam Angle	15°–60°
Strobe	0 - 25 Hertz
Battery Runtime	up to 20 hours
Battery Runtime (max. Brightness)	3 h
Battery Lifetime	80 % after 400 cycles
Charging Time (nominal)	3.5 h
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 / 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
RDM Support	Wireless
Infrared Control	Yes
TouchSlider	Yes
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)

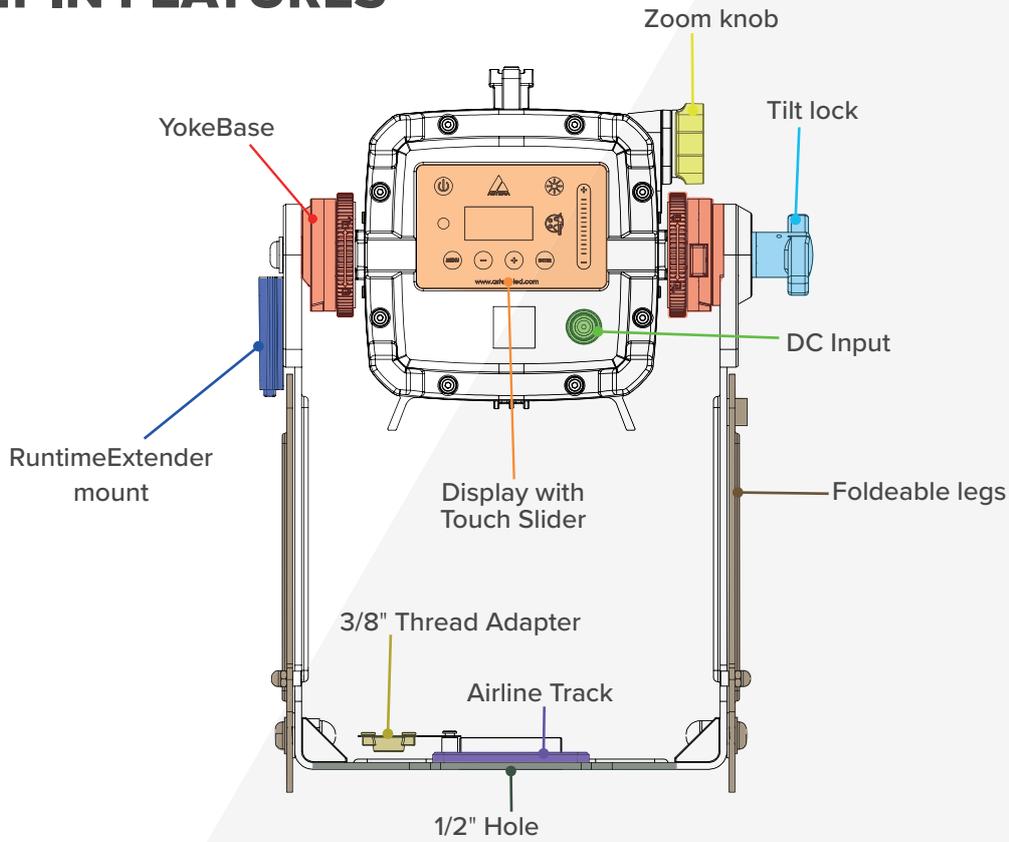All specifications provided are typical values and maybe subject to change without prior notice.

RF CHARACTERISTICS

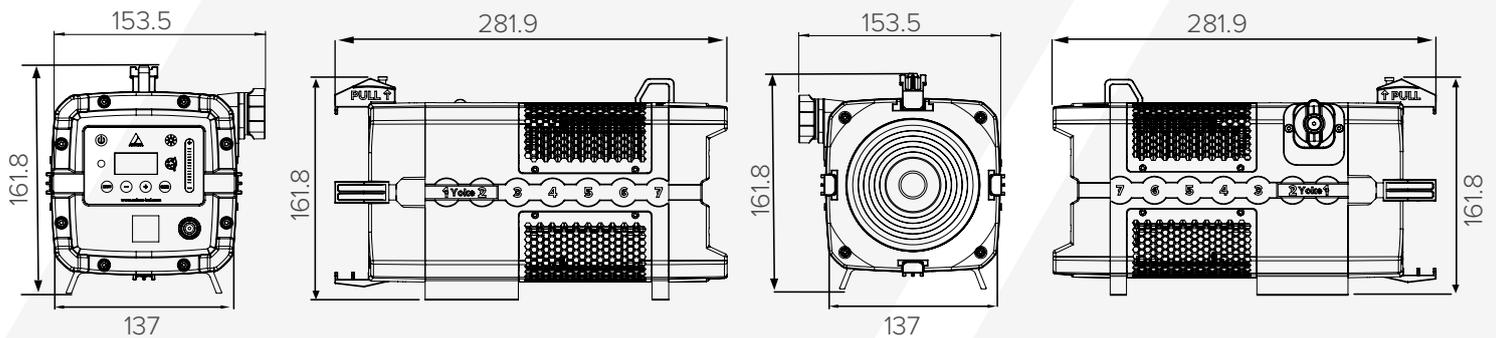| Wireless Modules	EU: UHF*** (863-870MHz)	USA: UHF (917-922.20MHz)	AUS: UHF (922.30-927.50MHz)	SGP: UHF (920.50-924.50MHz)	KOR: UHF (917.9-921.5MHz)
Modulation	FHSS	FHSS	FHSS	FHSS	FHSS
ERP (Transmitter)	<25mW	<25mW	<25mW	<25mW	<25mW
Channel Count	47	53	53	41	10

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	< 100 mW	10mW (BLE)	<100mW
Channel Count	6	19	79	40	13

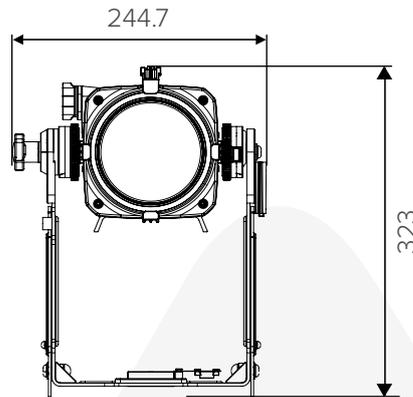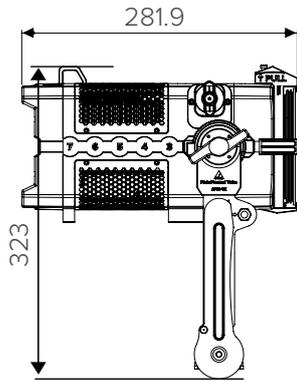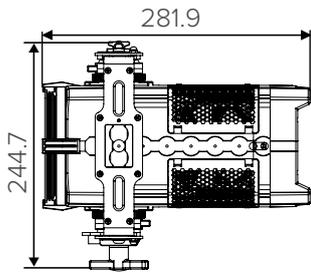***General allocation of frequencies for use by short-range radio applications

BUILT-IN FEATURES

Zoom knob

Tilt lock

YokeBase

DC Input

RuntimeExtender mount

Foldeable legs

Display with Touch Slider

3/8" Thread Adapter

Airline Track

1/2" Hole

DRAWINGS WITHOUT ACCESSORIES

153.5

281.9

153.5

281.9

161.8

161.8

161.8

161.8

137

137

DRAWINGS WITH YOKE

281.9   281.9   244.7

244.7   323   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

ProjectionLens
AF80-PLS

PowerBox 2x86 W
PWB-2-86

PowerBox 1x100 W
PWB-1-100

DataLink
FP1-DTL

Power / Data Combination Cable
PWB-CAB-0.2/1.5/5/10/15

Extension Cable for Helios, Titan, Hyperion Tube
FP1-EXC

Hyperion Power Supply
FP3-CHR

SoftBag
AF80-SB

Charging Case (empty)
AF80-CSE

PlutoFresnel Kit
AF80-KIT

Contents

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)
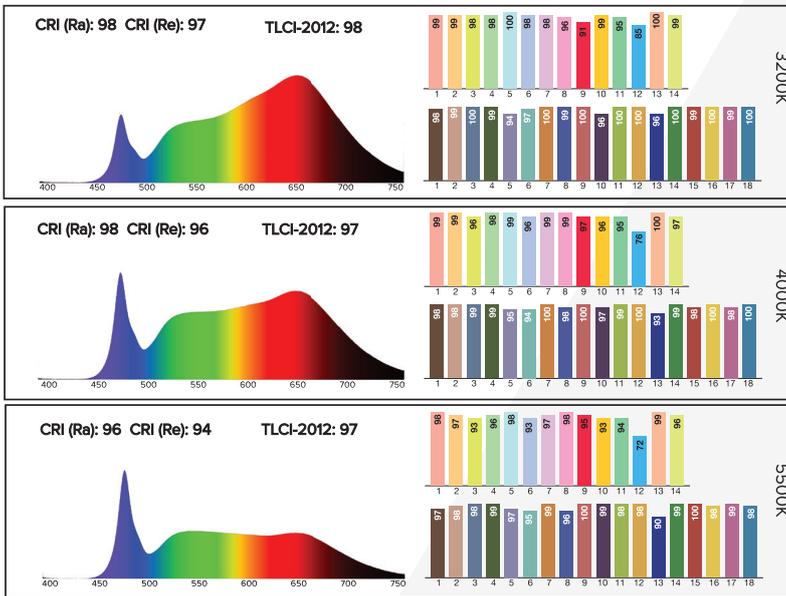
2x Hyperion Tube Power Supply
(FP3-CHR)

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