ASTERA

Datasheet LEO FRESNEL

Astera's LeoFresnel is as an exceptional solution for film, studio, and event lighting. LeoFresnel boasts an impressive output comparable to a traditional 1000W 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 250W. 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
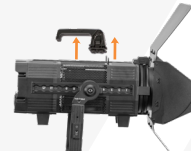Slide out Barndoor and Lens to create an Open Source fixture.

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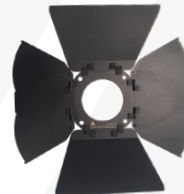The light can easily be taken out of its Yoke.

Removable Handle
TrackHandle can be removed or inserted into the Airline Tracks.
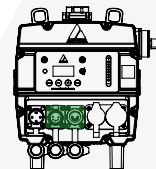
Barndoor
The Barndoor contains a total of 8 leaves, 4 of them can be slid out if needed.

Wired DMX
The included XLR in+out sockets allow easy DMX wiring.

SPECIFICATIONS

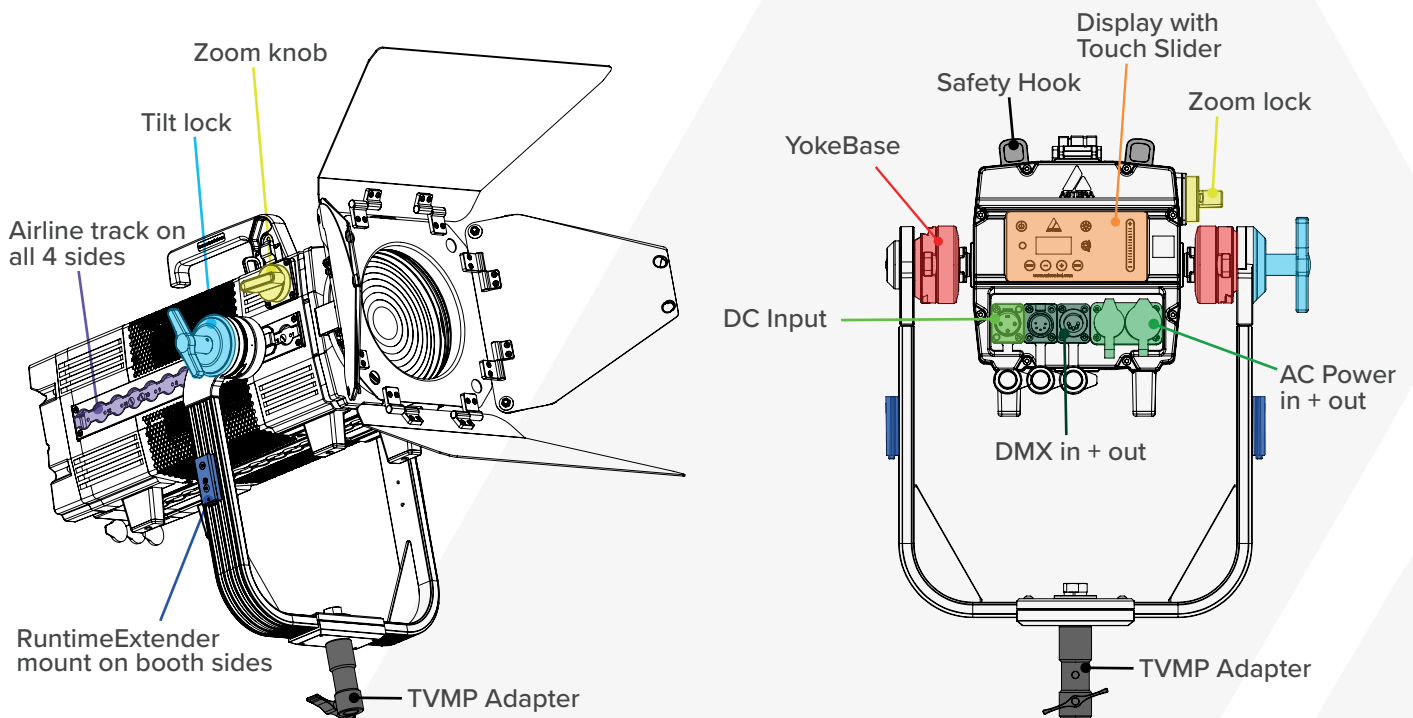|	LeoFresnel
Order Code	AF250
LED Engine	Titan LED Engine
Colors	RGBMintAmber
Total LED Power	350 W
LED Power Draw	250 W
CRI (Ra)/ TLCI 3200- 6500 K*	≥96
Beam Angle	15° - 60°
Strobe	0 - 25 Hertz
Pixels	1
Battery Runtime	up to 20 hours
Battery Runtime (max. Brightness)	2 h
Battery Lifetime	80 % after 400 cycles
DC Input	12 - 48 VDC; max. 15A
DC Connector	3pin XLR (Pin 1:- Pin 2:+)
AC Input	100 - 240 VAC, 50/60 Hertz, 3.8 A, 250 W
AC Connector	PowerCON TRUE1 Input/Output
Wired DMX	Yes (5-pin XLR)
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
IP Rating wired	IP55
Ambient Operating Temperature	0 - 40 °C / 32 - 104 °F
Weight (with AF250-FL, AF250-BD)	13.83 kg / 30.48 lbs
Weight (with AF250-FL, AF250-BD, AF250-YK, 2x AF250-YKB)	16.32 kg / 35.99 lbs
Dimensions L x W x D	455 mm x 215 mm x 240 mm / 17.91" x 8.46" x 9.45"
Dimensions L x W x H (with AF250-YK, 2x AF250-YKB, AX-TVMP, AX-THD)	455 mm x 371 mm x 545 mm / 17.91" x 14.61" x 21.46"
Mounting Options	AirlineTracks, Yoke with 2x BrickMount (PB15-BMO) and 1/2" mounting hole

*Typical value

RF CHARACTERISTICS

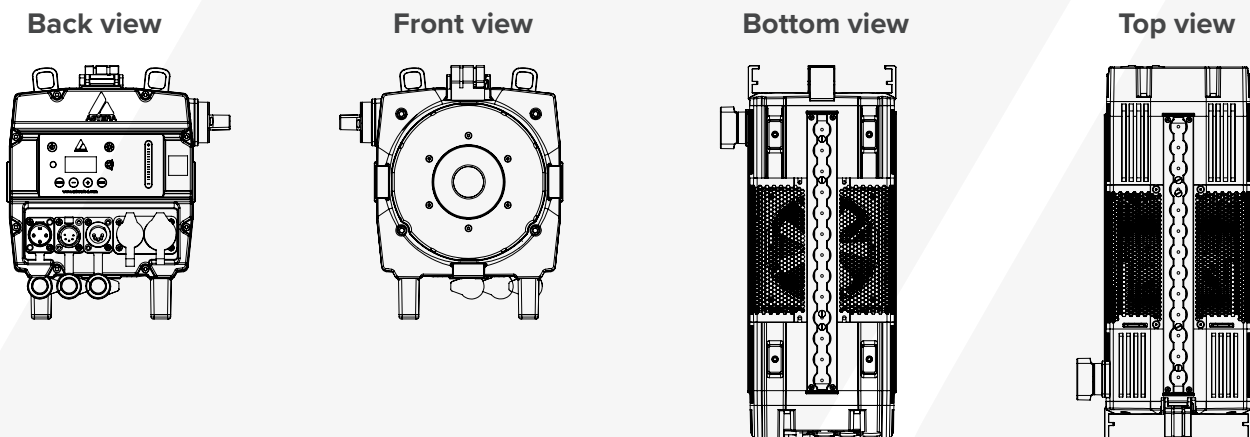| Wireless Modules	EU: UHF*** (863-870MHz)	USA: UHF (917-922.20MHz)	AUS: UHF (922.30-927.50MHz)	SGP: UHF (920.50-924.50MHz)	KOR: UHF (917.9-921.5MHz)
Modulation	FHSS	FHSS	FHSS	FHSS	FHSS
ERP (Transmitter)	<25mW	<25mW	<25mW	<25mW	<25mW
Channel Count	47	53	53	41	10

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

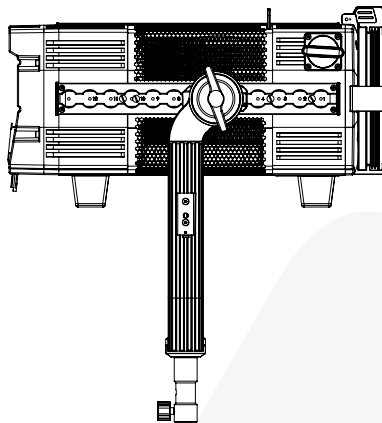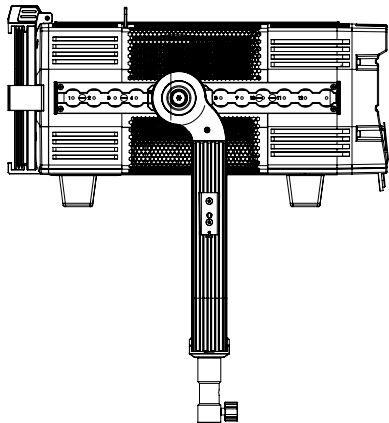***General allocation of frequencies for use by short-range radio applications

BUILT-IN FEATURES

Zoom knob

Tilt lock

Airline track on all 4 sides

RuntimeExtender mount on booth sides

TVMP Adapter

Display with Touch Slider

Safety Hook

YokeBase

Zoom lock

DC Input

AC Power in + out

DMX in + out

TVMP Adapter

DRAWINGS WITHOUT ACCESSORIES

Back view

Front view

Bottom view

Top view

DRAWINGS WITH ACCESSORIES

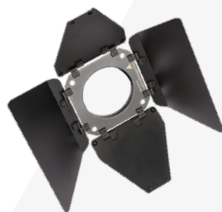# INCLUDED ACCESSORIES

Yoke
AF250-YK

YokeBase
AF250-YKB

Fresne Lens
AF250-FL

Barndoor
AF250-BD

TrackHandle
AX-THD

Rabbit-Rounder Adapter
AF250-RRA

OPTIONAL ACCESSORIES

RuntimeExtender
REX1-VM
REX1-GM

V-Mount   Gold Mount

Y-Cable
Connect 2 RuntimeExtenders
to 1 light
AF250-XY

Projection Lens
Coming late 2023

Charging Case (empty)
AF250-CSE

LeoFresnel Kit
AF250-KIT

1x LeoFresnel
(AF250)

1x Fresnel Lens
(AF250-FL)

1x Barndoor
(AF250-BD)

1x Yoke
(AF250-YK)

2x YokeBase
(AF250-YKB)

1x TVMB Adapter
(AX-TVMB)

1x TrackHandle
(AX-THD)

1x Rabbit-Rounder
 Adapter
(AF250-RRA)

1x Powercon True1 Cable

1x Case
(AF250-CSE)

DOPCHOICE ACCESSORIES

Lantern Medium
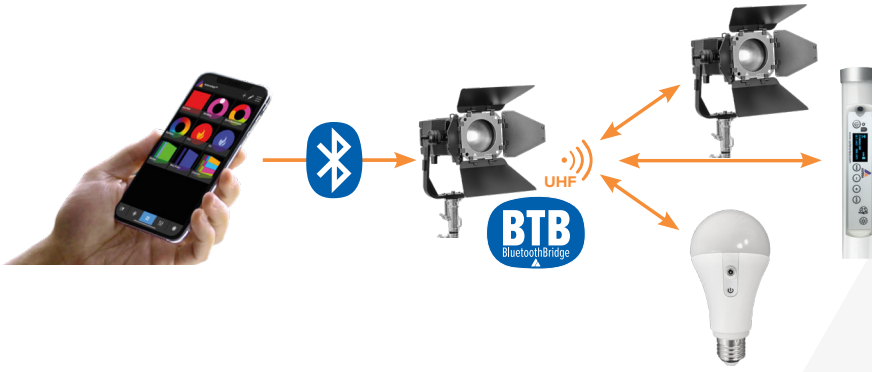SBRRUDM

Lantern Small
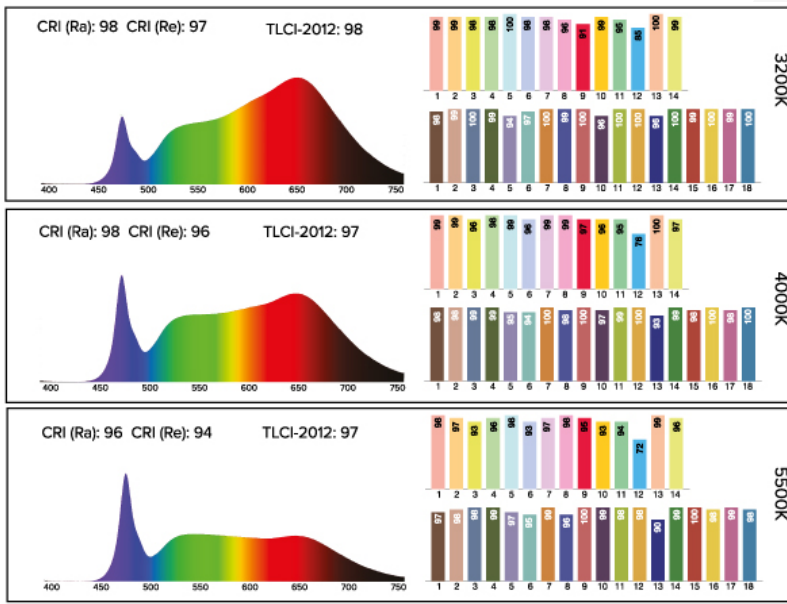SBRRUSS

Octa 5
SBRRUO5

LEOFRESNEL AS BLUETOOTH BRIDGE

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

TYPICAL SPECTRAS