



# Datasheet



Astera's LeoFresnel excels in film, studio, and event lighting, offering the output of a 1000 W Tungsten Fresnel while using only 250 W. It features a 15°–60° beam angle with no color fringing, DMX control, and is easy to mount and adjust with removable handles and YokeBases.



App



Wireless DMX



Max 20h



IP55

## 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 14.4 V batteries allow full power output.



### Removable Lens

Slide out Barndoors and Lens to create an Open Source fixture.



### Yoke Quick-Release

The light can easily be taken out of its Yoke.



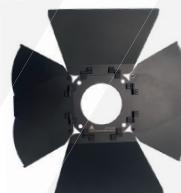
### Removable Handle

TrackHandle can be removed or inserted into the Airline Tracks.



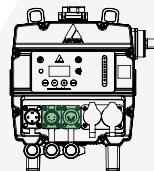
### Barndoors

The Barndoors 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

Order Code	AF250
LED Engine	Titan LED Engine
Colors	RGBMintAmber
Tungsten Equivalent	1200 W
LED Power Draw	250 W
Luminous Flux 3200K	4 963 Lumens
Luminous Flux 4000K	6 378 Lumens
Luminous Flux 5500K	7 119 Lumens
Light Output 5500 K 15° @ 1m	57 737 Lux
Light Output 5500 K 35° @ 1m	18 191 Lux
Light Output 5500 K 60° @ 1m	6 639 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)	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
Power Consumption (max.)	250 W
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
IP Rating wired / unwired	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

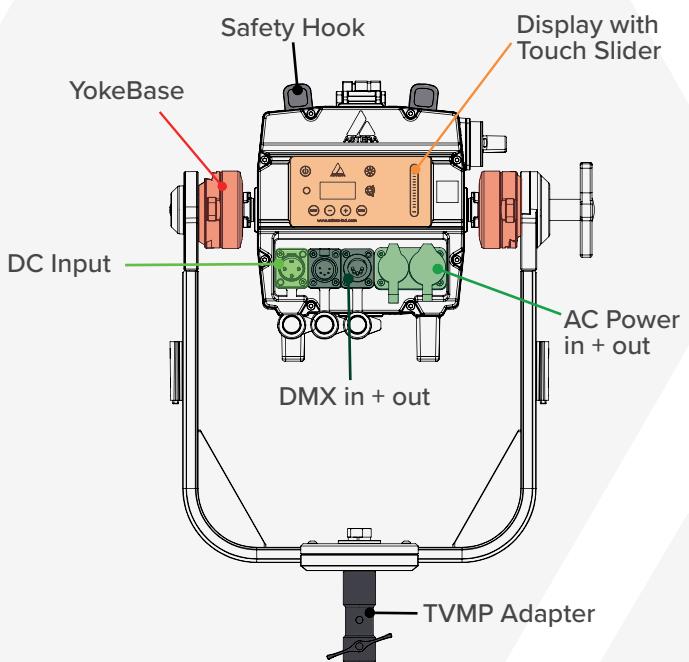
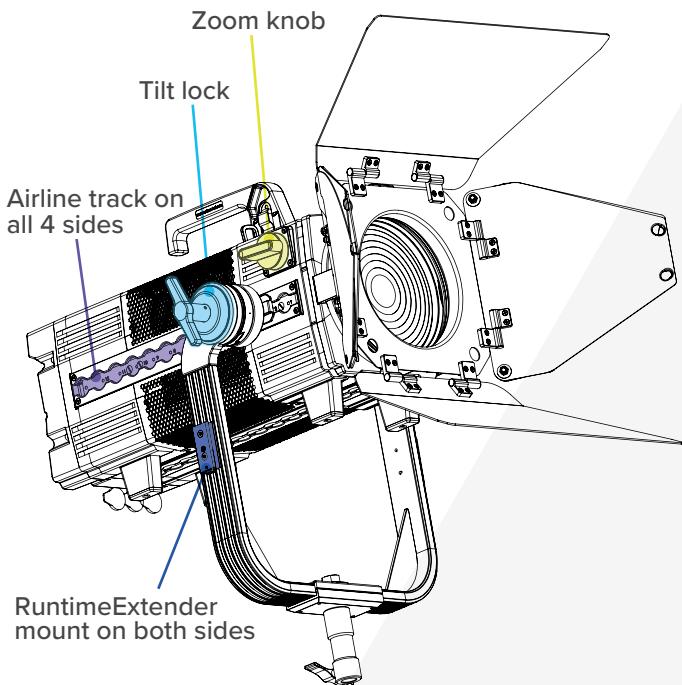
All specifications provided are typical values and maybe subject to change without prior notice.

# RF CHARACTERISTICS

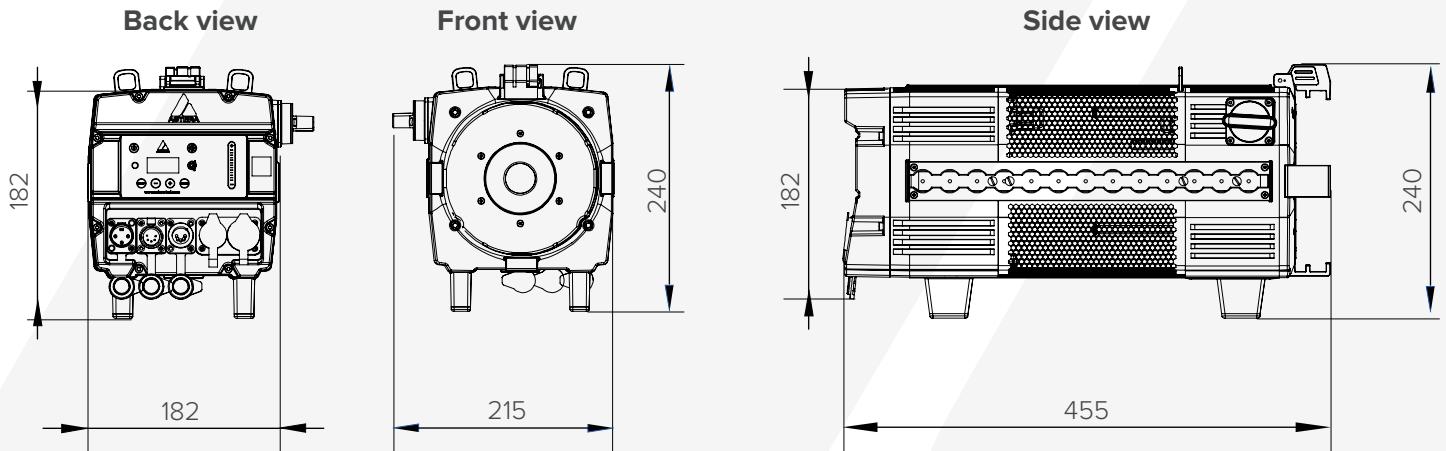
Wireless Modules	EU: UHF*** (863-870MHz)	USA: UHF (917-922.20MHz)	AUS: UHF (922.30-927.50MHz)	SGP: UHF (920.50-924.50MHz)	KOR: UHF (917.9-921.5MHz)
Modulation	FHSS	FHSS	FHSS	FHSS	FHSS
ERP (Transmitter)	<25mW	<25mW	<25mW	<25mW	<25mW
Channel Count	47	53	53	41	10
Wireless Modules	RUS: UHF (868.75-869.12MHz)	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

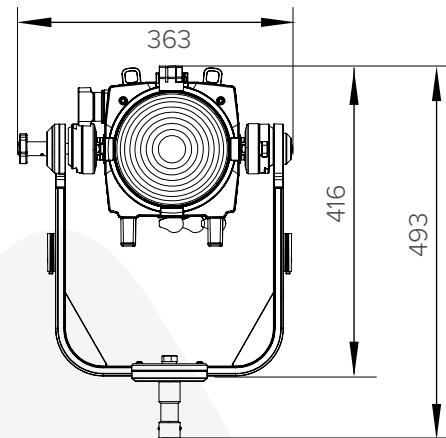
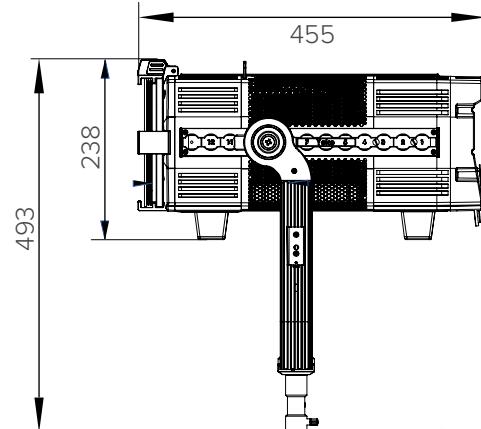
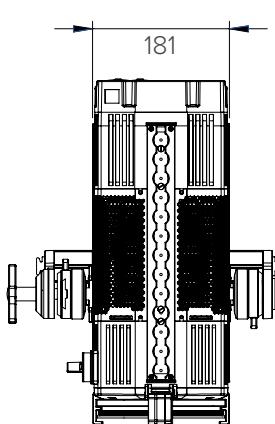
## BUILT-IN FEATURES



## DRAWINGS WITHOUT ACCESSORIES



# DRAWINGS WITH YOKE



## INCLUDED ACCESSORIES



**Yoke**  
AF250-YK



**YokeBase**  
AF250-YKB



**Fresnel Lens**  
AF250-FL



**Barndoors**  
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



### SoftBag

AF80-SB



### LeoFresnel Kit

AF250-KIT



### Contents

- 1x LeoFresnel (AF250)
- 1x Fresnel Lens (AF250-FL)
- 1x Barndoors (AF250-BD)
- 1x Yoke (AF250-YK)
- 2x YokeBase (AF250-YKB)
- 1x TVMP Adapter (AX-TVMP)
- 1x TrackHandle (AX-THD)
- 1x Rabbit-Rounder Adapter (AF250-RRA)
- 1x Powercon True1 Cable
- 1x Case (AF250-CSE)

### Charging Case (empty)

AF250-CSE



## DOPCHOICE ACCESSORIES

**Lantern Medium**  
SBRRUDM



**Lantern Small**  
SBRRUSS

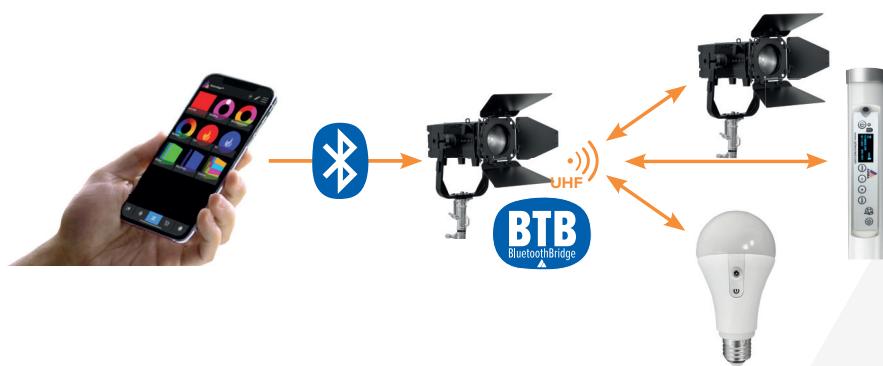


**Octa 5**  
SBRRUO5

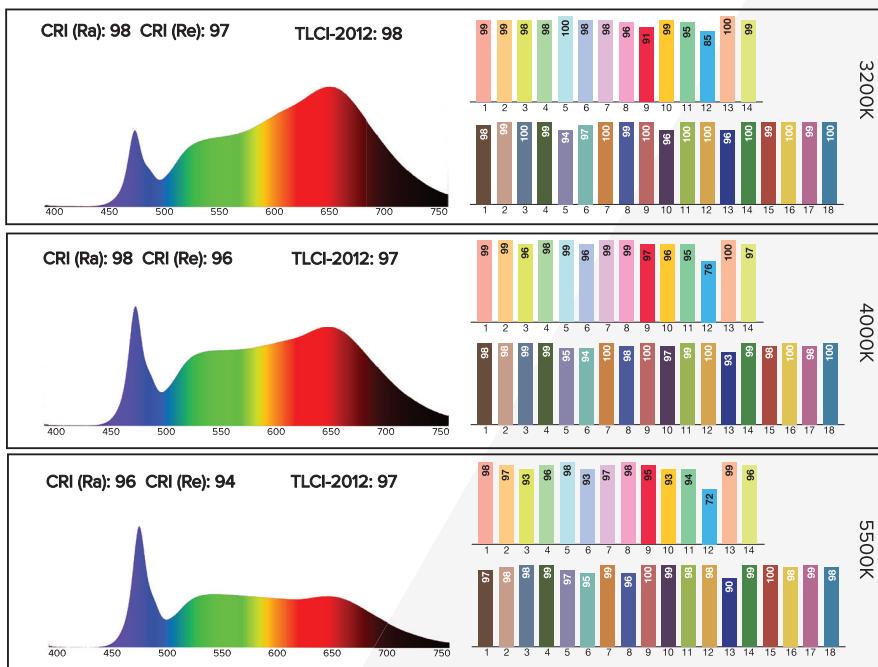


# LEOFRESNEL AS BLUETOOTH BRIDGE

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



Typical values