

Instructions

Important Safety Instructions

When using your projection equipment basic safety precautions should be followed:

1. Read and understand all instructions before using the equipment.
2. Close supervision is necessary when any appliance is used by, or near, children.
3. Care must be taken, as burns can occur from touching hot parts.
4. Do not operate appliance with a damaged cord, or if the appliance has been dropped, or damaged, until it has been examined by a qualified engineer.
5. Position the cord so that it will not be tripped over, pulled, or come into contact with hot surfaces.
6. If an extension cord is necessary, a cord with a current rating at least equal to that of the appliance should be used. Cords rated for less amperage than the appliance may overheat.
7. Always unplug appliance from electrical outlet before cleaning and servicing and when not in use. Never yank cord to pull plug from outlet. Grasp plug and pull to disconnect.
8. Let appliance cool completely before packing. Loop cord loosely around appliance when storing.
9. To reduce risk of electric shock, do not immerse power supply or other liquids.
10. To reduce the risk of electric shock, do not dismantle this appliance.
11. Do not attempt to service the projector unless you are qualified and working under the direction of the manufacturer
12. The use of an accessory attachment not recommended by the manufacturer may cause a risk of fire, electric shock, or personal injury.
13. A safety chain or cable must be fitted to the projector and secured to an immovable object where applicable. The securing point must be able to withstand the shock weight of the projector should it fall.
14. After any maintenance or cleaning all parts must be absolutely dry before refitting to the projector.
15. During focussing of the projected image beware of moving the projection lens too far, as this may cause the lens to become separated from the projector, and perhaps to dropped and broken which may cause injury.
16. Flammable surfaces should be 0.5m away from the front of the projector



[OPTI]TM GoboPro FX

Power Supply

A 28V mains supply suitable for 100-240V AC is supplied with an appropriate IEC power cable. The power supply is not suitable for use in wet conditions and should be installed in a dry location or waterproof box. The low voltage power cable can be extended by means of 4-pin XLR extension leads. Power cores should be capable of carrying at least 6A.

Mounting

All [OPTI] GoboPro and GoboPro+ are supplied with one u-shaped bracket that can be mounted to any immovable surface. The mounting bracket hole is 11mm. The angle of the u-shaped bracket can be adjusted using the pivot handles on the side of the projector. If the projector is to be mounted vertically downwards, it is recommended a small disk is installed above the projector to the risk of water pooling in the back of the unit.

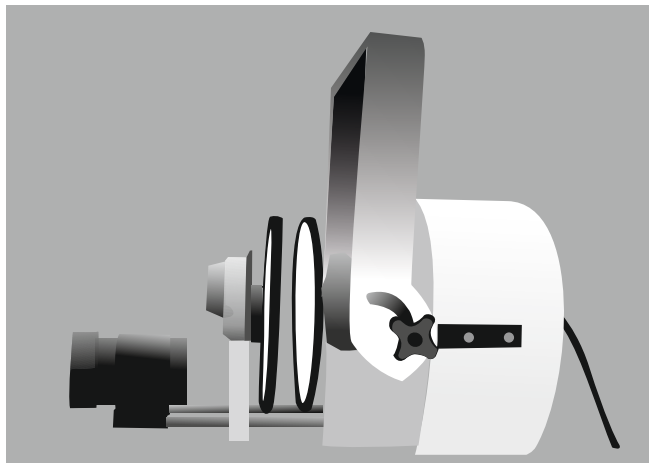
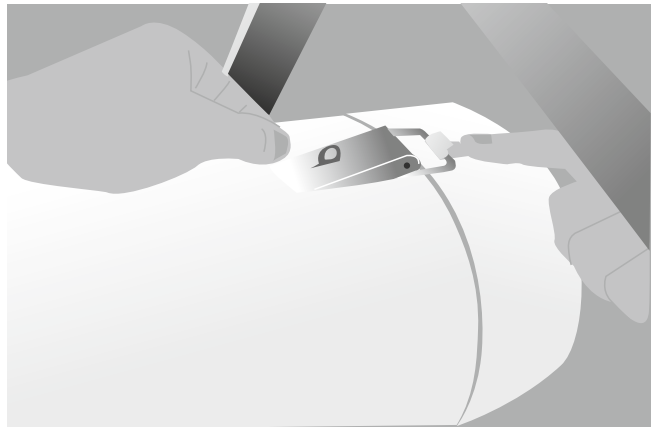
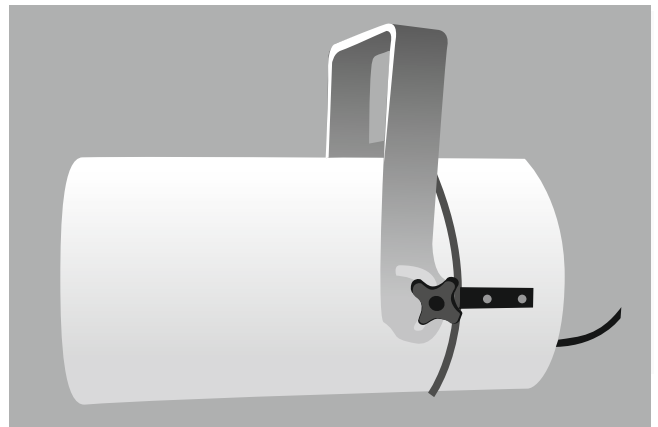
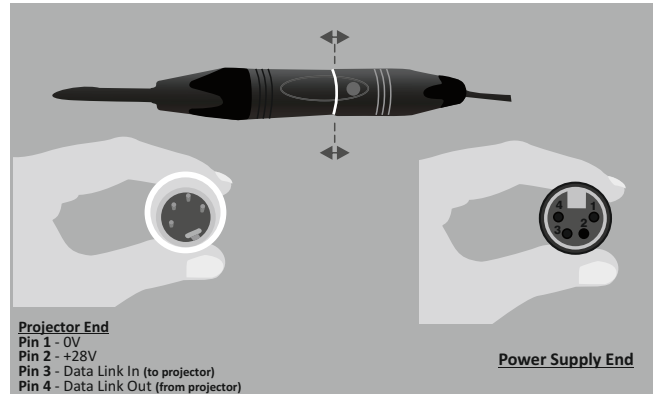
Waterproof Hood

All [OPTI] GoboPro, GoboPro+ and GoboPro FX are supplied with one 200mm long IP-rated 65 hood (suitable for 20mm-120mm lenses). To remove the hood, gently wiggle the hood and pull the hood off. To reattach the hood, gently wiggle and push the hood onto the projector. Please note that there will be a different size hoods available to accommodate 150mm lenses and bigger. There is a 1mm hole at the front of the hood to drain condensation. This hole should be aligned at the bottom of the projector. To secure the hood to the projector.

Lens Fitting & Focusing

If you would like to add or change the lens, loosen the screw on the bottom of the lens housing and remove the lens (if currently inserted). Insert the new lens to a balanced position and tighten the screw on the bottom of the lens housing.

To project a focused image, it is necessary to finely adjust the focusing lens after the unit has been pointed at the desired projection surface. To adjust the focusing lens, loosen the screw on the side of the lens housing and slide the housing along the rails until the image is focussed. Secure the lens housing to the rails by tightening the screw on the side.



[OPTI]TM GoboPro FX

Distance Calculation Formula

$$\frac{\text{Lens Focal}}{\text{Object Size}} \times \frac{\text{Projection Distance}}{\text{Image Size}}$$

Please note all [OPTI] GoboPro and GoboPro+ can be used with 52.5mm barrel lenses so there may be other lenses available.

Lens Focal Length	Projection Distance to Image Size (Ratio)	Lens Degrees
45mm	1:1	50°
60mm	3:2	39°
85mm	2:1	26°
120mm	3:1	18°
150mm	4:1	15°

Effects

There are two gates in the projector for holding effects cards (rotators, static gobos etc). The one nearest the light source commonly referred to as the front gate or the first gate, is the one that is normally used for the projected object. (Please note that some effects such as 'Light through Trees' are achieved through deliberately not focussing on the object in the first gate.) Usually the second gate is used to hold distortion wheels or other effects.

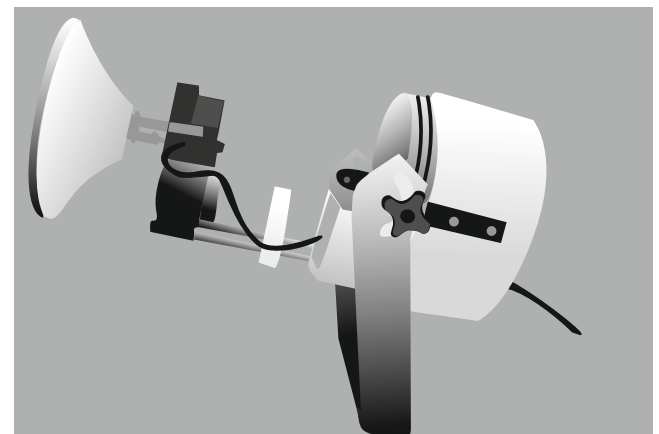
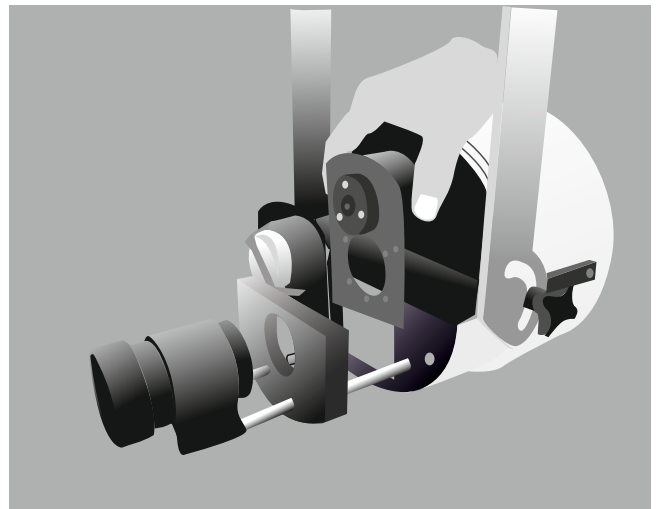
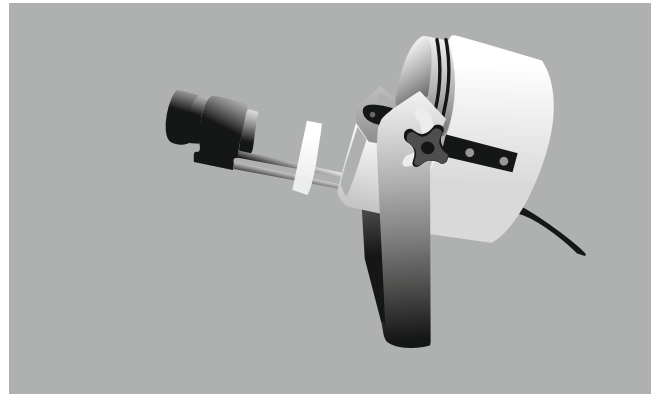
The first gate position is integral to the body of the projector. Effect cards are simply slid into the slot of the gate and pick up power from spring connectors inside the gate. Typical first effect cards are wheel rotators such as FGM6340AG or cassette rotators FG6391AG.

The position of the gates is important as it can completely change the image and the effect. Note: If rotating effects, the gates should not be positioned too close together.

Front of Lens Effects

Multi Mirror

A multi mirror can be used with the OPTI GoboPro FX to create a fantastic multi-image effect.

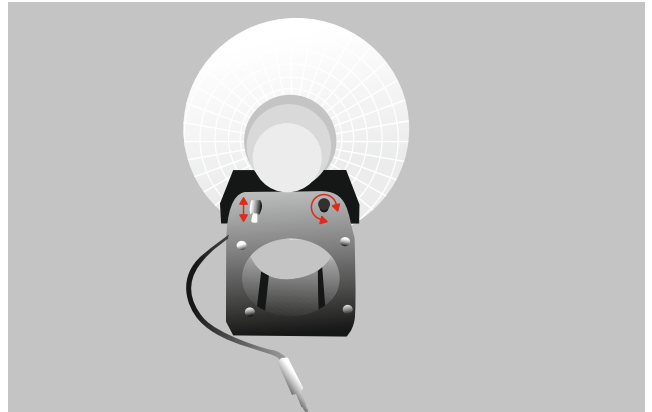


[OPTI]TM GoboPro FX

Multi-mirror

The multi-mirror can be controlled using the switch and dial buttons on the back of the unit.

The switch controls the direction of the rotation and the dial controls the speed.



Guarantee

[OPTI] Kinetics Limited guarantees this product for 1 year from the date of purchase from all mechanical, electrical or assembly defect. Within this 1-year period any fault will be repaired or remedied free of charge. To extend the warranty free of charge to 3 years, please register your [OPTI] GoboPro/GoboPro+ projector by visiting www.optikinetics.co.uk. The guarantee is void if the projector has been opened or if a repair has been attempted by anyone other than an [OPTI] Kinetics authorised repairer.

[OPTI]TM Guarantee

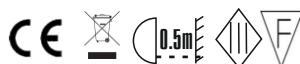


Technical Specification

NAME:	[OPTI] GoboPro FX LED Projector
Part Number:	FG2030
Gobo Projection:	Static and/or rotating image. Integral Rotator for Cassette
Lens Size:	Projector takes 52.5mm diameter object lenses. <i>Other lenses available*</i>
Lens options:	45, 60, 85, 120, 150, Zoom
Focus:	Manual
Light Source:	120W LED
Lumens:	8000
Brightness:	3800 Lux at 1m Diameter
Colour temperature (Kovin):	7500 K
Colour of Projector:	Black or White
Effects	Two active gates and one front of lens effect connection
Control:	Manual. DMX ad Wifi Adapter Available
Remote control:	Dimming, control of all effect parameters.
Projection Rating:	IP 65 with front cover fitted. Suitable for outdoor use.
Power Supply:	Mains adapter 28V at 4.74A. (Adapters not to IP65).
Dimension of projector:	L38 H37 W37 Od20 CM
Weight:	8Kg

[OPTI] Kinetics

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Following the success of the GoboPro and GoboShow projectors, [OPTI] Kinetics presents their new replacement LED Gobo Projectors. Launching in May 2016, [OPTI] Kinetics first waterproof Gobo Projectors will be able to project static and rotating images simultaneously or individually. There are three models to choose from and supplementary accessories. These powerful gobo projectors can use any 52.5mm diameter object lens, can be used for internal or external projectors and are perfect for Retail, Promotion, DJ, Clubs, Bars, Restaurants and Show Room applications. Manufactured with long life LEDs.

Features

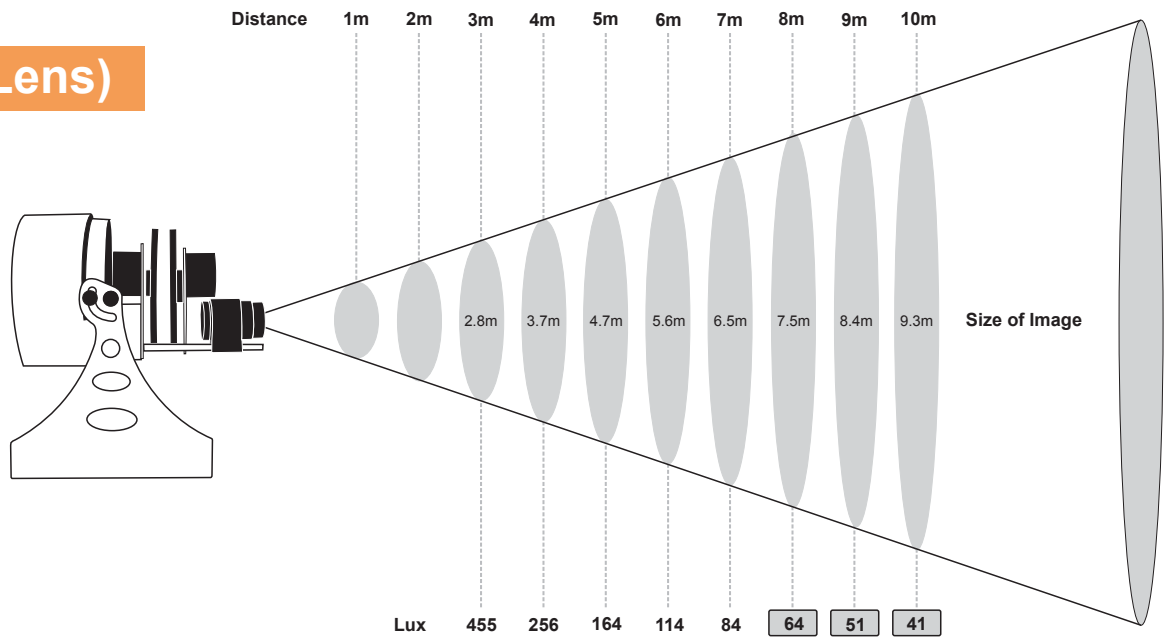
- Projector Static and/or Rotating Image
- Waterproof - IP 65 Rated
- Virtually Silent
- Bright Long Life LED
- Tamper Resistance
- Supports DMX Control

Technical Information

NAME:	Gobo Pro FX LED Projector
Part Number:	FG2130
Gobo Projection:	Takes all OPTI "Active Gate" effects. Max wheel diameter for IP65 = 6"
Lens Size:	Projector takes 52.5mm diameter object lenses Other lenses available*
Lens options:	45, 60, 85, 120, 150
Focus:	Manual
Light Source:	120W LED
Brightness Output:	8000 Lumens
Illuminance at 1 meter:	3800 Lux
Colour temperature (Kelvin):	7500 K
Colour of Projector:	Black or White
Gobo Size:	50mm o/d Rotating, 44mm o/d fixed. (42 image diameter). Or 35mm transparency with adaptor (for occasional use). Fitted to Opti cassette.
Control:	Manual. Supports DMX Control
Remote control:	Dimming, control of all effect parameters.
Protection Rating	IP 65 with front cover fitted. Suitable for outdoor use. Light water spray. Not large amount of dust.
Power Supply:	Mains adaptor 28V at 5A. (Adaptors not to IP65).
Dimension of projector:	L38 H37 W25 OD20 CM
Weight:	8 Kg

Projection Distance

45mm (Lens)

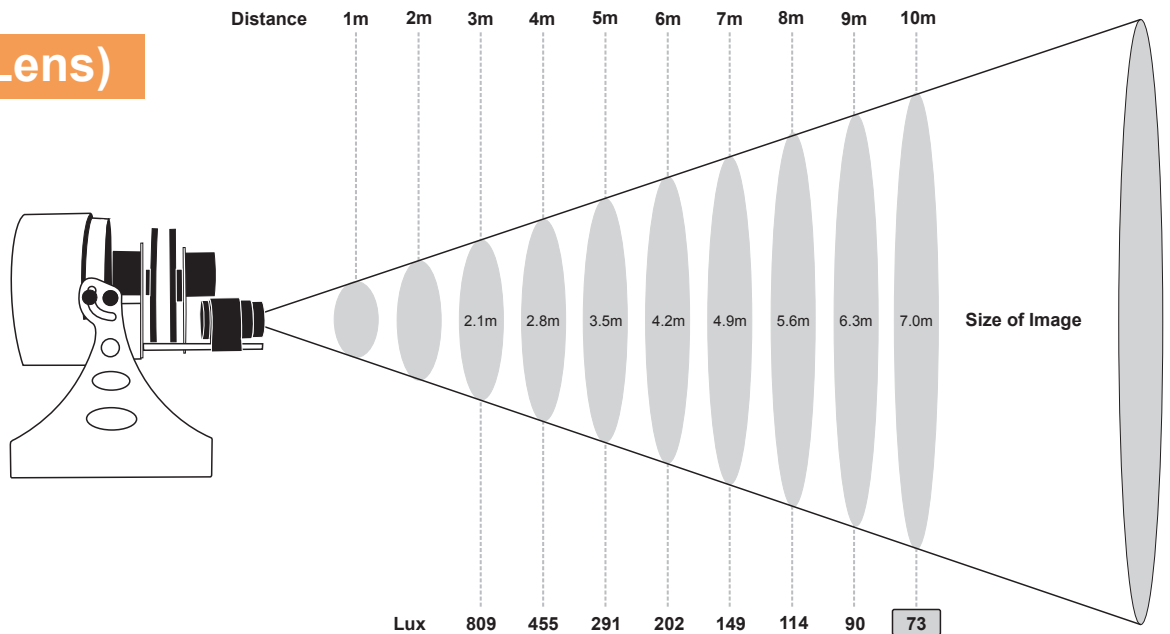


Ratio for Distance 1,1:1 (Image Size - 45mm Lens)
The Object Diameter is 42mm

 no other light sources nearby

Projection Distance

60mm (Lens)

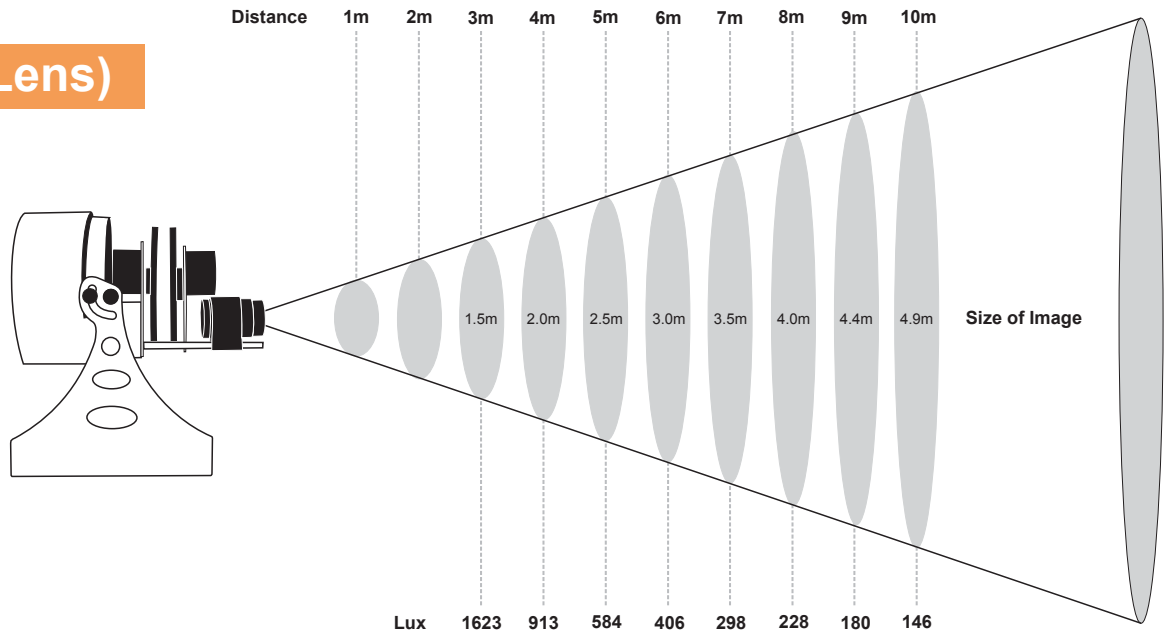


Ratio for Distance 1,4:1 (Image Size - 60mm Lens)
The Object Diameter is 42mm

 no other light sources nearby

Projection Distance

85mm (Lens)

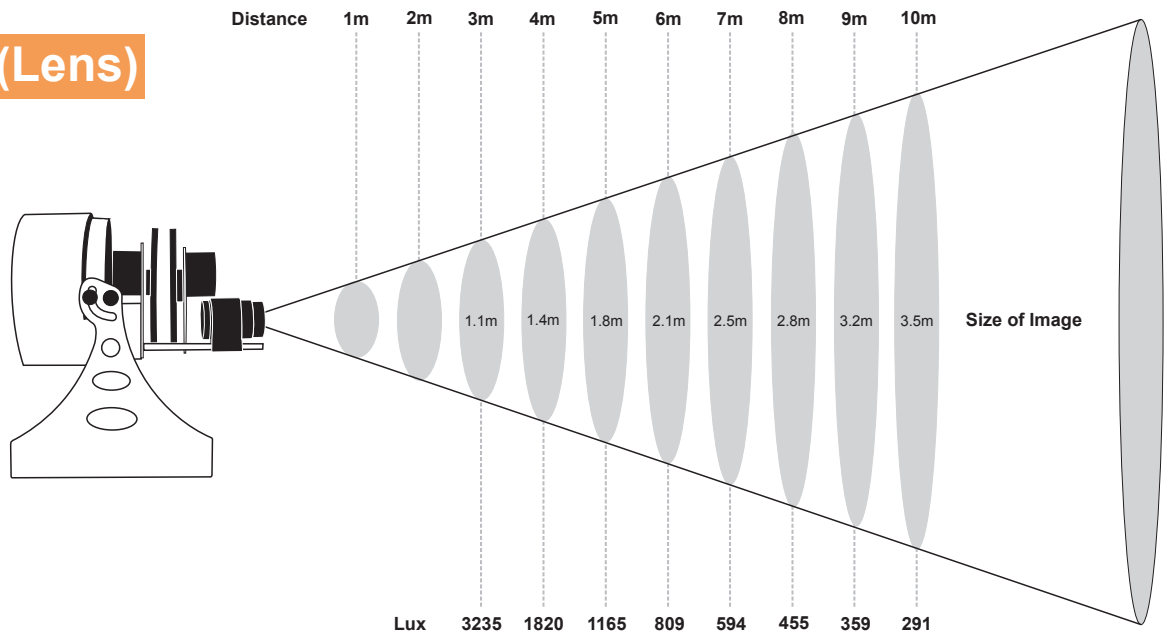


Ratio for Distance 2:1 (Image Size - 85mm Lens)

The Object Diameter is 42mm

Projection Distance

120mm (Lens)

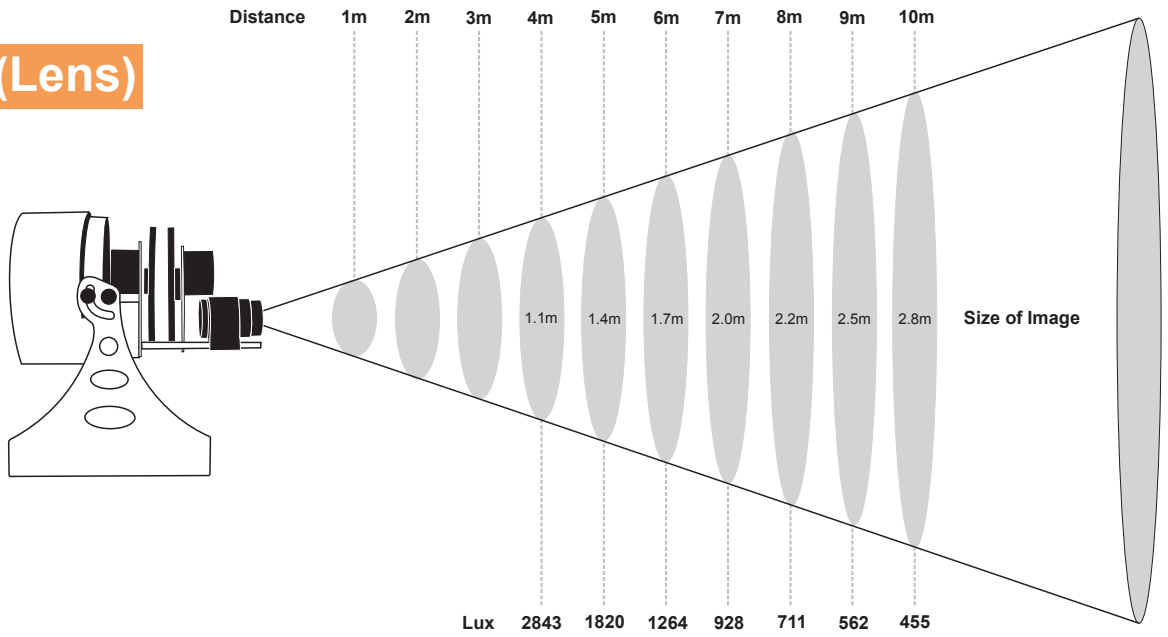


Ratio for Distance 2,9:1 (Image Size - 120mm Lens)

The Object Diameter is 42mm

Projection Distance

150mm (Lens)



Ratio for Distance 3,6:1 (Image Size - 150mm Lens)
The Object Diameter is 42mm