



F-Theta Projection Lenses

4K Single Projector Solution

From digital customer desktops to the largest stage and movie theater projectors in the world – Jenoptik develops 2D and 3D projection objective lenses for a wide range of systems. They can be used for innovative wide-angle and high-aperture projection units for soaring rides, 3D movie theaters, dark rides and simulators.

Advantages of laser projection:

- Lower cost of total ownership
- Lower power consumption
- Expanded color gamut
- Brighter picture
- Longer life-time

Jenoptik has designed, manufactured and delivered more than 1000 projection lenses for 3 to 20 meter domes. Whether you are looking for a single or multi-projector solution, Jenoptik has lenses ready for your application – from stock or tailored to your ideas.

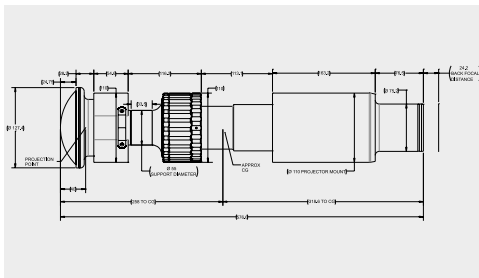
By working closely with the leading laser projector manufacturers Jenoptik ensures to meet all application specifications. With high lumens (45 k to 60 k) today's projectors become more prevalent. Hence, selecting the right projection optics is more important than ever before.

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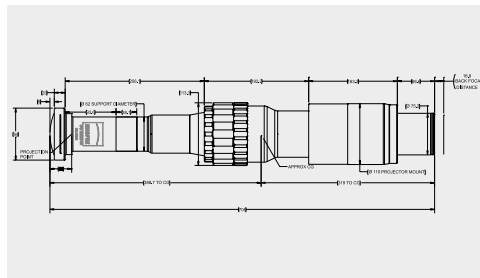
Suitable for following projectors:

- Christie D4K60LH
 - Christie D4K3560
 - Christie Roadie HD+35K
 - Christie Boxer 4K30
- Barco DP4K-32B
 - Barco HDQ-4K35
 - DP INSIGHT 4K QUAD
 - DP INSIGHT LASER 4K

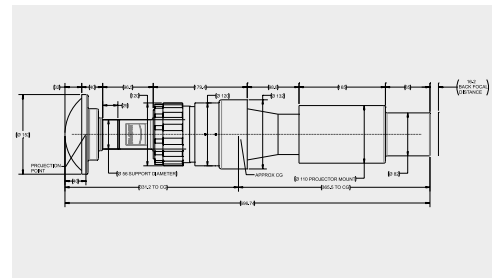
Parameters	4K Single Projector Solution	8K Laser Planetarium Lenses (45 k)	8K Laser Planetarium Lenses (60 k)
Horizontal field of view:	180°	101°	170°
Vertical field of view:	125°	53°	90°
Diagonal field of view:	-	114°	192°
Effective focal length:	7.5 mm	17.5 mm	10.35 mm
f#:	2.85	2.85	2.85
MTF @ 66 lp/mm:	0.68	0.78	0.55
Lateral color B-R:	< 3.5 μm	< 1 μm	< 3.5 μm
F-Theta distortion:	< 0.2 %	< 0.8 %	< 1 %
Transmission:	> 77 %	> 77 %	> 85 %
Digital light procession (DLP):	1.38" 3 Chip	1.38" 3 Chip	1.38" 3 Chip
Resolution:	4096 x 2160 pixel	4096 x 2160 pixel	4096 x 2160 pixel
DLP dimension:	30.96 mm x 16.33 mm	30.96 mm x 16.33 mm	30.96 mm x 16.33 mm
Pixel pitch:	7.56 μm	7.56 μm	7.56 μm
Max lumens:	45 k	45 k	60 k
Order Number:	JOS4K-1	JOS4K-2	JOS4K-4



4K Single Projector Solution



8K Laser Planetarium Lenses (45 k)



8K Laser Planetarium Lenses (60 k)

It is our policy to constantly improve the design and specifications. Accordingly, the details represented herein cannot be regarded as final and binding.