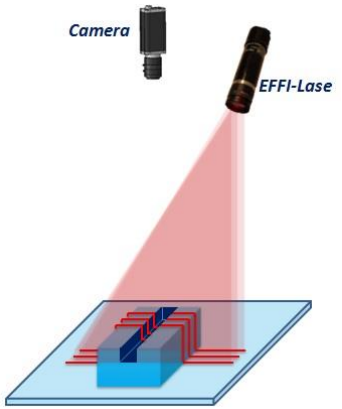
Efficient
Led Lighting

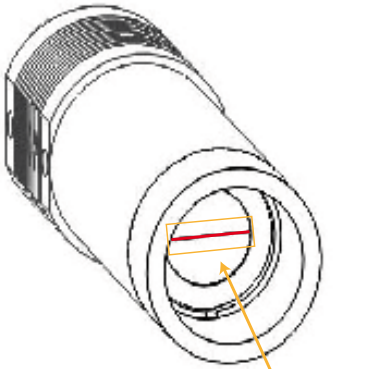
effiLux

How to design custom pattern ?



EFFI-Lase pattern

How to calculate the projected pattern size (Exemple : Line)



EFFI-Lase

Mask dimensions

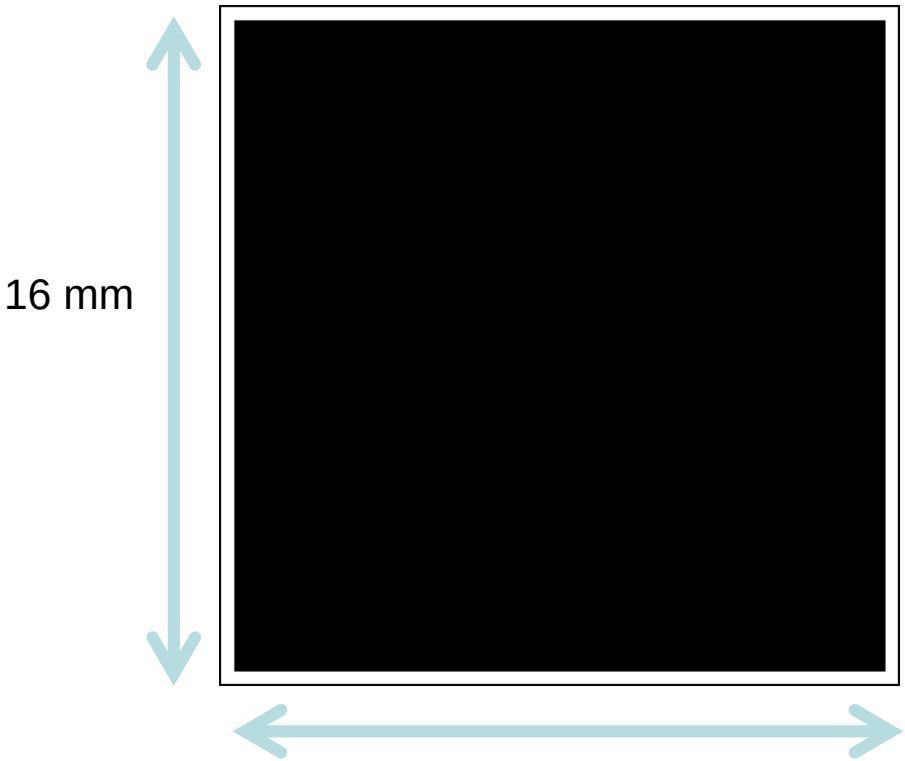
accuracy < 1,5 µm

Pattern dimensions

ACCURACY < 1,5 µm $\times \frac{L}{l}$

$$W = w \times \frac{L}{l}$$

Mask own customer’s design



Size :
16 * 16 mm² = Available surface for designing pattern

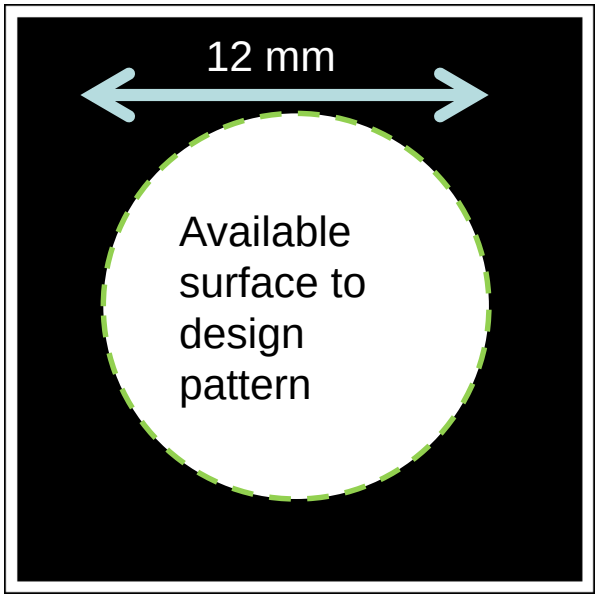
Resolution :
3200 * 3200 Px
1 Px = 5µm

Format :
To be sent to EFFILUX with purchase order in .bmp format using ZIP file.

EFFILUX can design masks for customers.
Clear specifications of the mask have to be sent to EFFILUX. (Working distance, projected pattern, size of projected elements)

Mask design using a C-mount lens for 2/3" sensor.

Using a C-Mount 2/3" lens, EFFILUX advices to design a mask on a 12mm diameter circular surface.



WHY ?

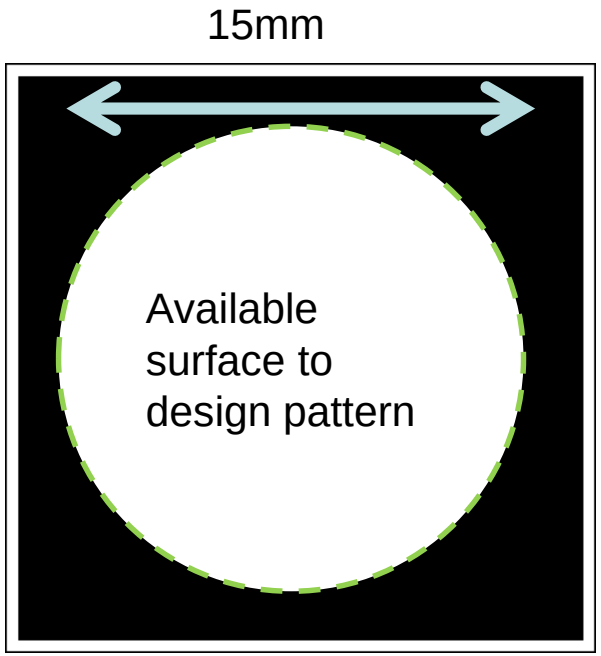
- To avoid distortions on extremity of the projected pattern
- Because Main part of the light emitted outside this area would not be projected anyway.

Using a 2/3" C-mount lens :

- Advantage : PRICE of the lens
- Drawbacks : Less light is emitted

Mask design using a C-mount lens for 1" sensor.

Using a C-Mount 1" lens, EFFILUX advices to design a mask on a 15mm diameter circular surface.



WHY ?

- To avoid distortions on extremity of the projected pattern

Using a 1" C-mount lens :

- Advantage : More light is emitted compared to a 2/3" lens
- Drawbacks : Lens is more expansive