

Variable Optical Imaging System

Imaging Projection Lens Assembly

IMM18S-F55

IMM18S-F55 belongs to the product family of IMM imaging projection lens assembly. It consists of multiple lenses assembled in a aluminum alloy housing. All of the lenses are made of special glass materials using high precision grinding and surface polishing processes, and coated with multiple layers of high-transmittance film, through precise assembly, form a low-dispersion lens with high resolution, offering high-quality imaging. Arranging LED, specific condensing lens set, and IMM18S-F55 lens in group to form an imaging projection system with the characteristics of fixed wide beam angle and short light path. The projected light spots exhibit high clarity, uniform, fullness, and are free from distortion. IMM18S-F55 is particularly well-suited for low-power and compact-size LED projection lighting applications.

Applications scope: High-definition LED imaging lights, pattern projection lights, profile cutting lights, profile spotlights, and more.

Application Areas: Stage performances, cultural and tourism landscapes, film and video shooting, commercial photography, museums, art galleries, and more.



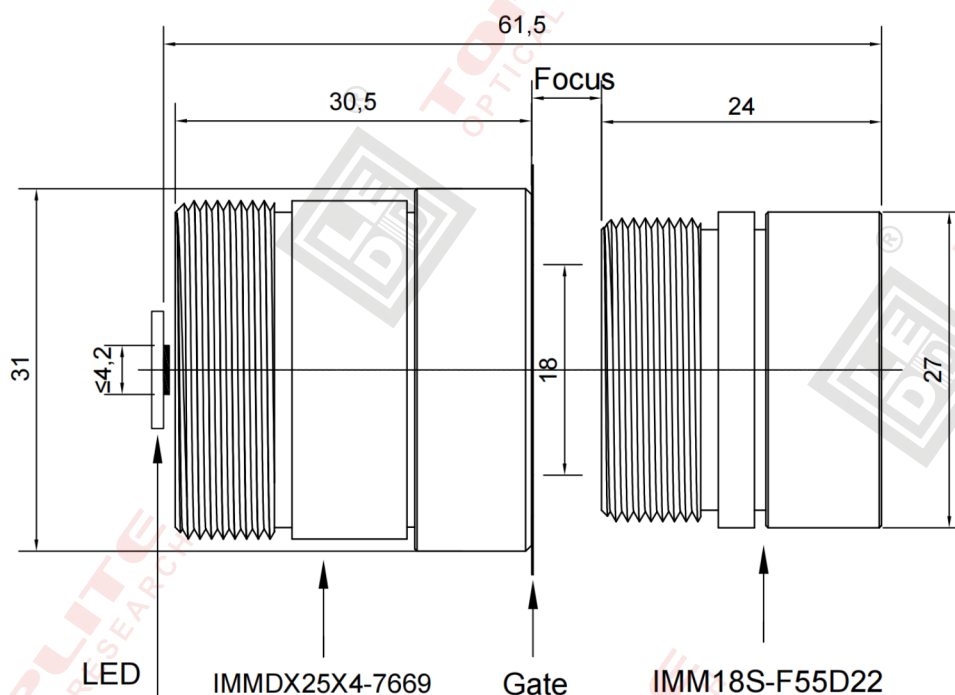
IMM18S-F55 and its specific condensing lens

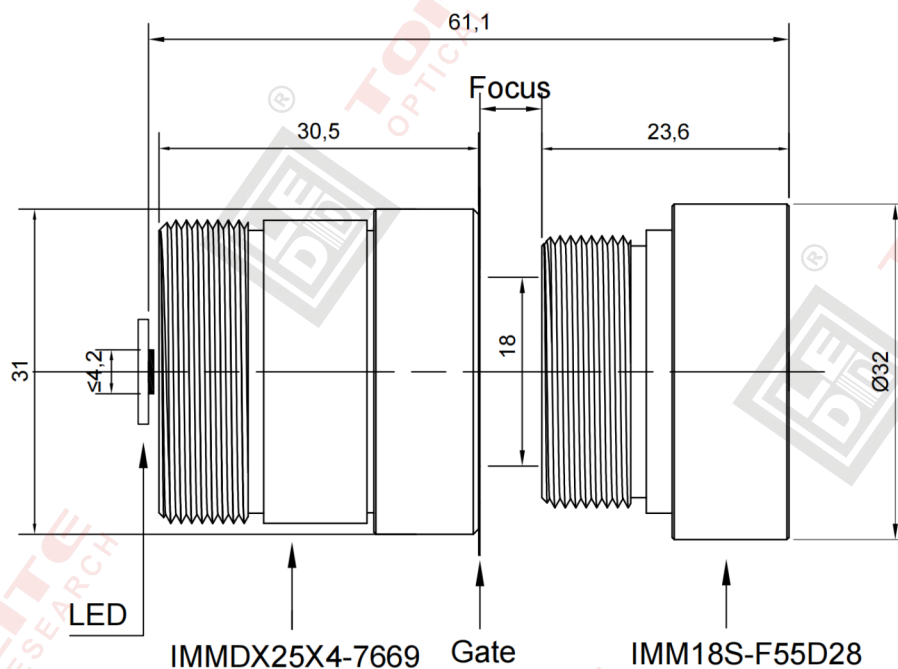
Main Parameters:

Product Model	IMM18S-F55D22	IMM18S-F55D28
Product Type	Lens assembly	
LED	High integrated LED or COB, $LES \leq \Phi 8.5\text{mm}$, for higher imaging quality $LES \leq \Phi 4.2\text{mm}$ is preferred.	
Condensing Lens	IMMDX25X330, IMMDX25X4	
Gate (Effective Gobo Size)	$\leq \Phi 18\text{mm}$	
Coatings	Multi-layer anti-reflection	
Beam Angle	55°	
Length of light path	$\leq 62\text{mm}$	

Schematic diagram of imaging light path

There are two typical imaging system schematic diagrams are showed here. Each one consists of four parts, from left to right they are, LED, condensing lens, gate (Gobo), and imaging lens. The condensing lens is IMMDX25X4, and the gate (effective gobo size) is less than $\Phi 18\text{mm}$.





Ordering Information

Lens model	Lens type
IMM18S-F55D22	Imaging projection lens
IMM18S-F55D28	Imaging projection lens
IMMDX25X4-7669	Condensing lens
IMMDX25X330	Condensing lens