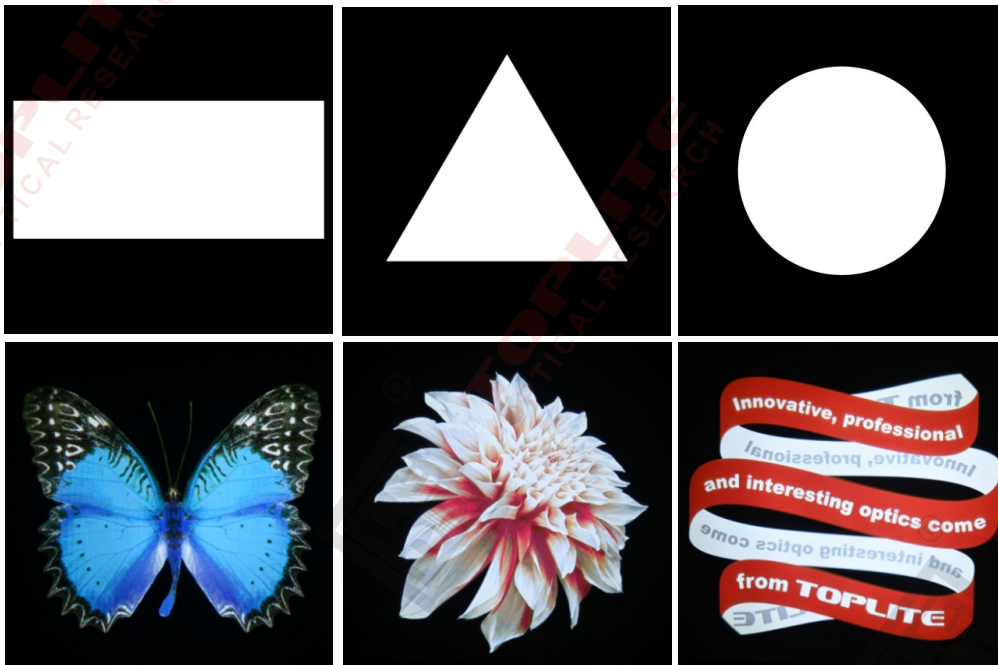


High-Definition Imaging Projection Lens Assembly

IMM10S Series

The IMM10S is one model within the high-definition imaging projection lens series. Featuring a wide 10x zoom range with an adjustable beam angle from 5° to 50°, it comes in a matte black anodized metal housing. The internal lenses are crafted with high-precision grinding, coated with multi-layer anti-reflection coatings, and precisely assembled, delivering high resolution and high-definition imaging performance. When paired with a high-efficiency condenser lens, it projects a beam that is sharp, uniform, and distortion-free. The entire optical path is compact, making it ideal for integration into small and medium-sized products.

Applications: small and medium-sized LED high-definition logo projectors, pattern projection lights, framing lights, high-definition wide-angle projection equipment, and other devices that demand high imaging quality.



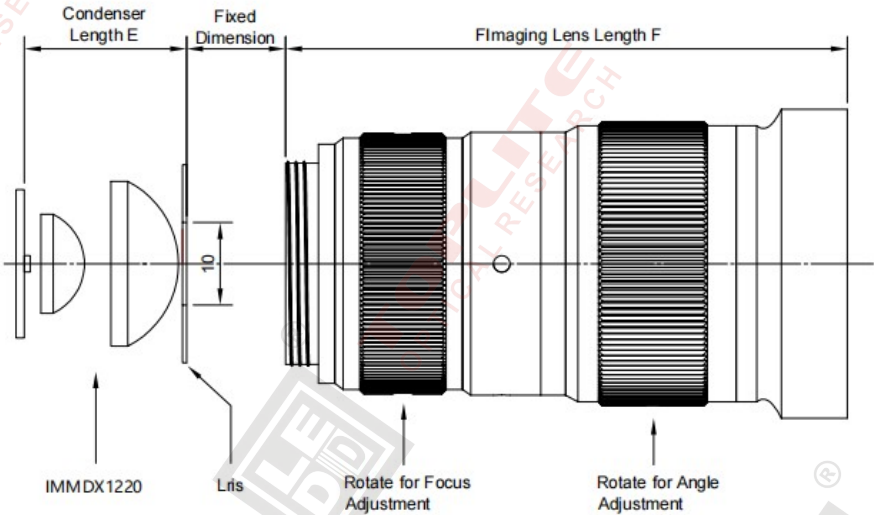
IMM10S Series Projection Lens:



● Main Specifications:

Lens Type	IMM10S-Z0550
Compatible Light Source	High-density LED, COB, etc, with light-emitting surface $\leq \Phi 3\text{mm}$
Condenser Lens	IMMDX1220 It can also be customized according to specific application needs.
Aperture	$\Phi 10\text{mm}$
Angle	$5^{\circ}\sim 50^{\circ}$
Size	$\Phi 37.5\times 68.2\text{mm}$
Optical Path Length	99.9mm
Coating	High-quality multi-layer anti-reflection coating

Optical Schematic Diagram:



The optical path consists mainly of two optical components: a condenser and an imaging projection lens. From left to right, light from the LED is first concentrated by the condenser IMMDX1220, then passes through a $\Phi 10\text{ mm}$ aperture, and finally is projected through the imaging projection lens IMM10S-Zxxxx. The IMM10S-Zxxxx lens remains fixed in position and its beam angle and focus are rotationally adjustable to ensure sharp images or patterns at different projection distances.

Ordering Model:

Model No.	Type
IMM10S-Z0550	Imaging Projection Lens Assembly
IMMDX1220	Condenser Lens Assembly