

125° LENS

Wide-Angle Optics

125° LENS WITH AUGMENTED RESOLUTION AND DISTORTION CONTROL

Patented ImmerVision Panomorph technology overcomes the limitations of typical commodity lenses and produces the highest quality wide-angle images possible.

- Patented ultra wide-angle 125° FoV lens manufactured by 
- Camera module manufactured by 
- Best quality lens with any software

KEY BENEFITS OF THE 125° PANOMORPH LENS AND MODULE

- **Ultra-Wide-angle:** 125 FoV off-the-shelf lens features the best specifications on the market
- **Augmented Resolution:** controlled distortion and relative illumination for enhanced performance
 - **High MTF:** provides a better image quality, sharp texture and high level of details
 - **Lower Lateral Color:** for high quality picture free of artifacts (flare and color fringing)
 - **Lower F/#** offers better performances in low-light conditions
 - **Panomorph Distortion** to capture the maximum of the scene while keeping straight lines
- **Free to operate:** patented technology

125° PANOMORPH LENS SPECIFICATIONS

TTL	5.4mm
FOV	125°
F/#	1.9
Focal Length	2.1mm
Mount	Custom
RPL	D844V
Target Sensor	1/3.1"
Image Footprint	Diameter: 5.96mm
Lens Ø	3.7mm
Barrel Ø	6.8mm
Ratio	1:1

COMPATIBLE SENSORS

		
IMX371 – 16 MP	OV16A10 – 16 MP	S5K3T1 – 20 MP
IMX471 – 16 MP		S5K3P3 – 16 MP
		S5K3P9 – 16 MP
		S5K3L6 – 13 MP
		S5K3L8 – 13 MP

OUTSTANDING PERFORMANCE OF THE 125° PANOMORPH LENS AND MODULE

- Higher horizontal field of view and straighter lines.
- Higher pixel density in the corners provides more information for better image quality after dewarping.
- Images corrected with a traditional correction algorithm use more of the original image, increasing final image quality (less image stretch needed for display).
- Lower f/# allows for better low-light capabilities.
- Designed to provide the best pixel information for correction. Scenes captured from the same position show that the Immervision 125° Panomorph with traditional correction delivers better overall image quality.
- Flare, glare and ghost artifact minimization.

KEY TAKEAWAYS

125° Panomorph lens and module delivers superior image resolution across the field of view, allowing devices to better analyze image content and humans to see more.



Traditional commodity wide-angle lens produces low-quality distorted images having lower resolution (MTF) and less light (low Relative Illumination and high f/#).



125° panomorph lens with patented Immervision optical design delivers highest-quality wide-angle images.



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