

## LENSES

## Wide-Angle Optics

### ACHIEVE THE BEST WIDE-ANGLE IMAGE QUALITY IN ANY DEVICE

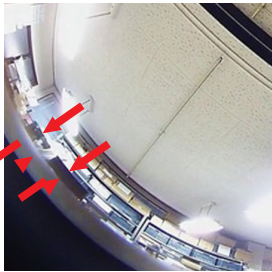
Highest quality off-the-shelf Wide, Super-Wide, and Ultra-Wide angle lenses with Augmented resolution, controlled MTF and distortion, and high relative illumination from the world's leading suppliers.



### SEE MORE, SMARTER

Capture the whole scene, with up to over 240 degrees FoV panomorph lenses, and get superior results to those from traditional wide-angle and fisheye lenses.

#### FISHEYE

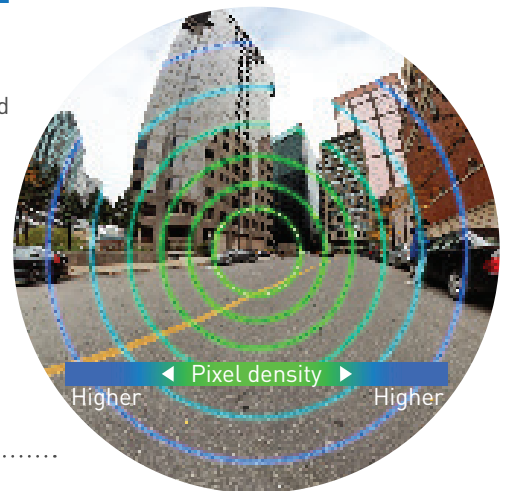


#### PANOMORPH



### AUGMENTED RESOLUTION, SUPERIOR IMAGE QUALITY

Patented panomorph technology uses advanced design techniques, combining numerous controlled optical parameters such as MTF, distortion, and Relative Illumination, to ensure the best image quality across the field of view, from the center to the edge.



### ADAPTIVE DEWARPING

Achieve pleasing, accurate photos and videos with real-time Adaptive Dewarping to correct distortion, straighten lines, preserve the field of view, and maintain object proportions.

### A LENS ADAPTED FOR EVERY DEVICE

Easily integrate these advanced lens designs into mobile devices, vehicles, drones, security cameras, robotics, IoT appliances, industrial machines, or any other vision application.



## OFF-THE-SHELF PANOMORPH LENSES HIGH RESOLUTION M12 MOUNT LENSES

### CBC E1222KRY

Manufacturer	CBC Group (Japan)
FOV	185°
Focal Length	1.2mm
Mount	M12
TTL	29.9mm
F/#	2.2

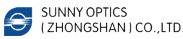


RPL	C9VT
Target Sensor	1/1.7"
Image Footprint	5.38mm x 5.38mm
Lens Ø	24.8mm
Barrel Ø	29.2mm
Ratio	1:1



### SUNNY OPTICS SYD2B25A-400

Manufacturer	Sunny Optics (Zhongshan) (China)
FOV	220°
Focal Length	1.14mm
Mount	M12
TTL	40mm
F/#	2.2



RPL	C4VV
Target Sensor	1/2.3"
Image Footprint	4.5mm x 4.5mm
Lens Ø	24.9mm
Barrel Ø	30mm
Ratio	1:1



## MINIATURE CUSTOM MOUNT LENSES

### KOLEN KL08618

Manufacturer	Kolen (Korea)
FOV	187°
Focal Length	0.74mm
Mount	Custom
TTL	5.0mm
F/#	2.1

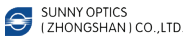


RPL	C2TV
Target Sensor	1/4"
Image Footprint	2.6mm x 2.6mm
Lens Ø	4.5mm
Barrel Ø	8.5mm
Ratio	1:1



### SUNNY OPTICS D2005A-499

Manufacturer	Sunny Optics (Zhongshan) (China)
FOV	190°
Focal Length	1.1mm
Mount	Custom
TTL	7.5mm
F/#	2.1



RPL	D0ZV
Target Sensor	1/2.8"
Image Footprint	3.84mm x 3.84mm
Lens Ø	7.26mm
Barrel Ø	14.6mm
Ratio	1:1



### JMO 16002 (Sockeye)

Manufacturer	Zhong Yang Technology Co., Ltd. (JMO) Corporation (Taiwan)
FOV	125°
Focal Length	2.0mm
Mount	Custom
TTL	5.6mm
F/#	1.9



RPL	D844V
Target Sensor	1/3.1"
Image Footprint	Diameter: 5.96mm
Lens Ø	3.7mm
Barrel Ø	6.8mm
Ratio	1:1



### ACE SOLUTECH AVO150

Manufacturer	Ace Solutech (Korea)
FOV	190°
Focal Length	0.72mm
Mount	Custom
TTL	6.5mm
F/#	1.9



RPL	E1TV
Target Sensor	1/4"
Image Footprint	2.68mm x 2.68mm
Lens Ø	6.0mm
Barrel Ø	10.5mm
Ratio	1:1



## ASSURED COMPATIBILITY

Each Immervision Enables certified lens is assigned a unique RPL (Registered Panoramic Lens) ID that describes all the panomorph lens characteristics.

To learn how to incorporate panomorph technology into your next product visit [www.immervision.com](http://www.immervision.com)



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## HIGH RESOLUTION M12 MOUNT LENSES

### HQO PL-M01-V08

Manufacturer	H.Q.O (Korea)
FOV	182°
Focal Length	N/A
Mount	M12
TTL	35.8mm
F/#	2.0



RPL	A8TRT
Target Sensor	1/2.8"
Image Footprint	5.11mm x 3.82mm
Lens Ø	29.5mm
Barrel Ø	35.0mm
Ratio	4:3



### CBC L1028KRW

Manufacturer	CBC Group (Japan)
FOV	180°
Focal Length	1.05mm
Mount	M12
TTL	29.88mm
F/#	2.8



RPL	B5SST
Target Sensor	1/2.5"
Image Footprint	4.1mm x 4.1mm
Lens Ø	20.0mm
Barrel Ø	27.0mm
Ratio	1:1



### CBC L1028KDRW (IP66)

Manufacturer	CBC Group (Japan)
FOV	180°
Focal Length	1.05mm
Mount	M12
TTL	29.88mm
F/#	2.8



RPL	B5SST
Target Sensor	1/2.5"
Image Footprint	4.1mm x 4.1mm
Lens Ø	20.0mm
Barrel Ø	27.0mm
Ratio	1:1



### CBC L1028KRW-180

Manufacturer	CBC Group (Japan)
FOV	180°
Focal Length	1.05mm
Mount	M12
TTL	29.88mm
F/#	2.8



RPL	B6SST
Target Sensor	1/2.5"
Image Footprint	N/A
Lens Ø	18.2mm
Barrel Ø	27.0mm
Ratio	1:1



### CBC H1328KP

Manufacturer	CBC Group (Japan)
FOV	180°
Focal Length	1.3mm
Mount	M12
TTL	33.3mm
F/#	2.8



RPL	B4QQV
Target Sensor	1/2"
Image Footprint	4.6mm x 4.6mm
Lens Ø	19.5mm
Barrel Ø	23.5mm
Ratio	1:1



### CBC T0928KRW

Manufacturer	CBC Group (Japan)
FOV	180°
Focal Length	0.95mm
Mount	M12
TTL	30.8mm
F/#	2.8



RPL	B8QQT
Target Sensor	1/3"
Image Footprint	N/A
Lens Ø	19.4mm
Barrel Ø	27.0mm
Ratio	1:1



## CS-MOUNT PANOMORPH LENSES

### IMMERVISION IMV1-1/3 & IMV1-1/3NI

Manufacturer	Immervision (Canada)
FOV	182°
Focal Length	4:3
Mount	CS



RPL	A0IFV
Target Sensor	1/3"
Image Footprint	4.62mm x 3.45mm
Lens Ø	2.8



## PANOMORPH LENSES

### IMMERVISION H053A3 LENS

Manufacturer	Immervision (Canada)
FOV	190°
Focal Length	1.38mm
Mount	M11
TTL	17.9mm
F/#	1.8



RPL	EBRRT
Target Sensor	1/2.8"
Image Footprint	3.8mm
Lens Ø	12.6mm
Barrel Ø	16.5mm
Ratio	1:1

