

OFF-THE-SHELF PANOMORPH LENSES

ACHIEVE THE BEST WIDE-ANGLE VIDEO EXPERIENCE IN ANY DEVICE

Capture the whole scene, up to 360 degrees, with even image quality, resolution, and luminance across the field of view, and produce superior results to those from primitive fisheye and catadioptric lenses. Get wider coverage per single camera, and then view flawless, true-to-life images that satisfy demanding users and applications. Assure instant compatibility with Immervision Enables viewing software.

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

ULTRA WIDE-ANGLE FIELD OF VIEW

Remove the blinders and see the wide world that surrounds you. Tell the whole story and show the complete picture, the entire group, and the full scene with a choice of lens designs for every application.

AUGMENTED RESOLUTION, SUPERIOR QUALITY

Patented panomorph technology combines controlled MTF, distortion and other parameters like Relative Illumination to ensure the best image quality across the field of view, from the center to the edge.

FLAWLESS VIEWING

Achieve flawless viewing functionality by digitally correcting optical distortion effects (dewarping), and enable immersive navigation within imagery captured with panomorph optics.



MINIATURE CUSTOM MOUNT LENSES

KOLEN KL04Z



Manufacturer	Kolen (Korea)
FOV	182°
Focal Length	0.48mm
Mount	M5.0
TTL	3.8mm
F/#	2.8

RPL	B0QQV
Target Sensor	1/5"
Image Footprint	2.0mm x 2.0mm
Lens Ø	3.9mm
Barrel Ø	6.5mm
Ratio	1:1

KOLEN KL16618



Manufacturer	Kolen (Korea)
FOV	187°
Focal Length	1.1mm
Mount	M5.5
TTL	7.5mm
F/#	2.1

RPL	C1ZZV
Target Sensor	1/2.8"
Image Footprint	3.8mm x 3.8mm
Lens Ø	7.7mm
Barrel Ø	14.6mm
Ratio	1:1

KOLEN KL08618



Manufacturer	Kolen (Korea)
FOV	187°
Focal Length	0.74mm
Mount	M5.0
TTL	5.0mm
F/#	2.1

RPL	C2TTV
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)
FOV	190°
Focal Length	1.1mm
Mount	M5.5
TTL	7.5mm
F/#	2.1

RPL	D0ZZV
Target Sensor	1/2.8"
Image Footprint	3.84mm x 3.84mm
Lens Ø	7.26mm
Barrel Ø	14.6mm
Ratio	1:1

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	C9VVT
Target Sensor	1/1.7"
Image Footprint	5.38mm x 5.38mm
Lens Ø	24.8mm
Barrel Ø	29.2mm
Ratio	1:1

EVETAR F117B129241RM12



Manufacturer	Evetar/Leading Optics
FOV	190°
Focal Length	1.3mm
Mount	M12
TTL	29.74mm
F/#	2.4

RPL	B9VVT
Target Sensor	1/1.7"
Image Footprint	5.4mm x 5.4mm
Lens Ø	26mm
Barrel Ø	32mm
Ratio	1:1

SUNNY OPTICS SYD2B25A-400



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

RPL	C4VVV
Target Sensor	1/2.3"
Image Footprint	4.5mm x 4.5mm
Lens Ø	24.9mm
Barrel Ø	30mm
Ratio	1:1

M12 MOUNT PANOMORPH LENSES

HQO PL-M01-V08



Manufacturer	H.Q.O (Korea)	RPL	A8TRT
FOV	182°	Target Sensor	1/2.8"
Focal Length	N/A	Image Footprint	5.11mm x 3.82mm
Mount	M12	Lens Ø	29.5mm
TTL	35.8mm	Barrel Ø	35.0mm
F/#	2.0	Ratio	4:3

CBC L1028KRW



Manufacturer	CBC Group (Japan)	RPL	B5SST
FOV	180°	Target Sensor	1/2.5"
Focal Length	1.05mm	Image Footprint	4.1mm x 4.1mm
Mount	M12	Lens Ø	20.0mm
TTL	29.88mm	Barrel Ø	27.0mm
F/#	2.8	Ratio	1:1

CBC L1028KDRW (IP66)



Manufacturer	CBC Group (Japan)	RPL	B5SST
FOV	180°	Target Sensor	1/2.5"
Focal Length	1.05mm	Image Footprint	4.1mm x 4.1mm
Mount	M12	Lens Ø	20.0mm
TTL	29.88mm	Barrel Ø	27.0mm
F/#	2.8	Ratio	1:1

CBC L1028KRW-180



Manufacturer	CBC Group (Japan)	RPL	B6SST
FOV	180°	Target Sensor	1/2.5"
Focal Length	1.05mm	Image Footprint	N/A
Mount	M12	Lens Ø	18.2mm
TTL	29.88mm	Barrel Ø	27.0mm
F/#	2.8	Ratio	1:1

CBC H1328KP



Manufacturer	CBC Group (Japan)	RPL	B4QQV
FOV	180°	Target Sensor	1/2"
Focal Length	1.3mm	Image Footprint	4.6mm x 4.6mm
Mount	M12	Lens Ø	19.5mm
TTL	33.3mm	Barrel Ø	23.5mm
F/#	2.8	Ratio	1:1

CBC T0928KRW



Manufacturer	CBC Group (Japan)	RPL	B8QQT
FOV	180°	Target Sensor	1/3"
Focal Length	0.95mm	Image Footprint	N/A
Mount	M12	Lens Ø	19.4mm
TTL	30.8mm	Barrel Ø	27.0mm
F/#	2.8	Ratio	1:1

CS-MOUNT PANOMORPH LENSES

FUJINON DF360SR4A-SA2 FUJIFILM



Manufacturer	Fujifilm (Japan)	RPL	A1UST
FOV	182°	Target Sensor	1/2.5"
Ratio	4:3	Image Footprint	5.32mm x 3.93mm
Mount	CS	F/#	2.0

IMMERVISION IMMERSION enables®



Manufacturer	Immersion (Canada)	RPL	A0IFV
FOV	182°	Target Sensor	1/3"
Ratio	4:3	Image Footprint	4.62mm x 3.45mm
Mount	CS	F/#	2.8

FUJINON YF360A-2 & YF360A-SA2 FUJIFILM



Manufacturer	Fujifilm (Japan)	RPL	A0NKV
FOV	182°	Target Sensor	1/3"
Ratio	4:3	Image Footprint	4.62mm x 3.45mm
Mount	CS	F/#	2.8

ASSURED COMPATIBILITY

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

Gain consistent, superior image quality across the field of view, higher resolution at the edges and flawless dewarping performance by selecting the matching lens RPL within the certified viewing software.

To learn how to incorporate panomorph technology into your next product visit www.immersion.com