

3.5X Fisheye® Conversion Lens

Navitar's 3.5X Fisheye Conversion lens is designed to work with lower cost projectors that do not have replaceable lenses. This is an ideal solution for planetariums that want to upgrade their existing systems, but can't afford to buy new projectors or replacement lenses. The new 3.5X Fisheye will also work in many applications where users simply want to project a very wide projector angle onto a curved surface, such as simulation, immersive environments, and amusement attractions.

Key Advantages:

- Better Illumination at the edge of the image
- Lower Distortion at the edge of the image
- Fully capture all 1920 pixels at widest prime lens zoom
- Better Image quality
(Actual optical MTF of lens will be higher)

Applications:

- Planetariums
- Amusement Parks
- Simulation



Part #	Afocol Magn.	MAX FOV (degrees)	Max F-θ dist @200° FOV (%)	Relative Illum. (%)	Focus Range (m)	System F#	MTF Center @ 73lp/mm (%)	MTF Edge @ 50lp/mm (%)	Widest Throw Ratio*	Max Pupil Depth* (mm)
I-24207	3.5X	200	-23	>59	1.5-∞	F/2.5	55	10	1.3:1	55

*without vignetting

Navitar HC-3.5X Fisheye Conversion Lens

		1.33:1	1.6:1	1.778:1	1.896:1
Original Prime Lens Throw:	New Projected Horizontal Angle (°)	4:3 Aspect Vertical Angle (°)	16:10 Aspect Vertical Angle (°)	16:9 Aspect Vertical Angle (°)	2K/4K Aspect Vertical Angle (°)
1.30:1	199	125	102	90	84
1.353:1	180	120	97	86	80
1.40:1	167	115	93	83	77
1.436:1	160	112	91	81	75
1.50:1	149	107	86	77	72
1.60:1	137	99	80	72	67
1.70:1	128	92	75	68	63
1.80:1	120	87	71	64	60
1.90:1	113	82	67	60	57
2.00:1	106	77	64	57	54
2.10:1	101	73	61	55	51
2.25:1	93	68	57	51	48
2.50:1	83	61	51	46	43
2.75:1	75	56	46	41	38
3.00:1	68	51	42	37	35
3.50:1	58	44	35	31	29
4.00:1	51	38	30	26	24

