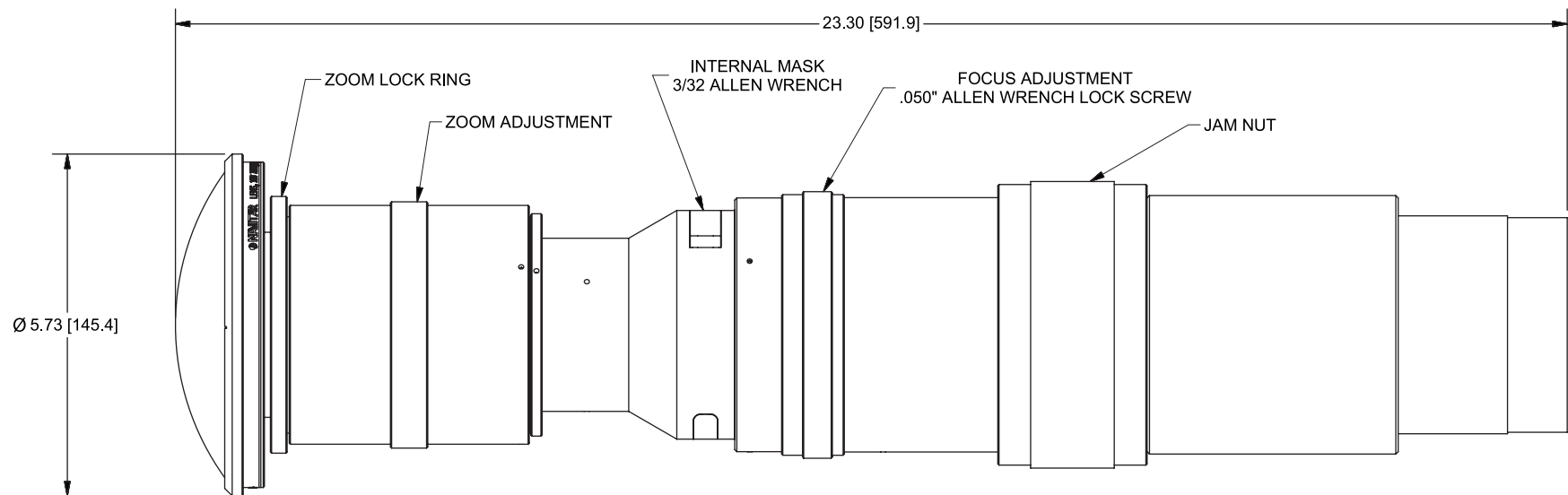


HemiStar HSRZ-55 Zoom

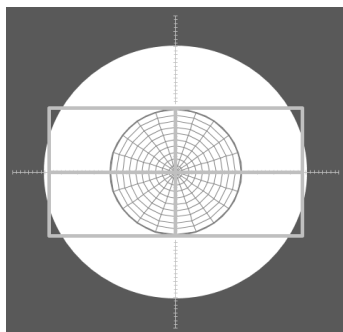
Projection Angle Chart															
Display Type		Resolution			Panel Size (mm)			# Pixels Projected			Projection Angles (°)		Shift		
Dome Lens		H	V	Pixel Pitch (µm)	H	V	Diag.	H	V	Mpixel Count	H	V	H +/-%	V +/-%	V Angle +/-°
Original Panel TI 4K 1.38” DLP - 6.5mm		4096	2160	7.56	30.966	16.330	35.008	2585	2160	4.84	184.7	150.3	0%	10%	17.3
Original Panel TI 4K 1.38” DLP - 5.9mm		4096	2160	7.56	30.966	16.330	35.008	2436	2160	4.45	189.5	165.0	0%	6%	12.5
Original Panel TI 4K 1.38” DLP - 5.5mm		4096	2160	7.56	30.966	16.330	35.008	2266	2160	3.98	189.6	179.4	0%	2%	5.3
Alternate Panels	1.25” 2K - 6.5mm	2048	1080	13.68	28.017	14.774	31.674	1429	1080	1.38	184.7	134.6	0%	16%	25.2
	1.25” 2K - 5.9mm	2048	1080	13.68	28.017	14.774	31.674	1346	1080	1.28	189.5	147.5	0%	12%	21.2
	1.25” 2K - 5.5mm	2048	1080	13.68	28.017	14.774	31.674	1252	1080	1.16	189.6	160.3	0%	8%	14.9



HSRZ-55 Zoom

Panel Usage

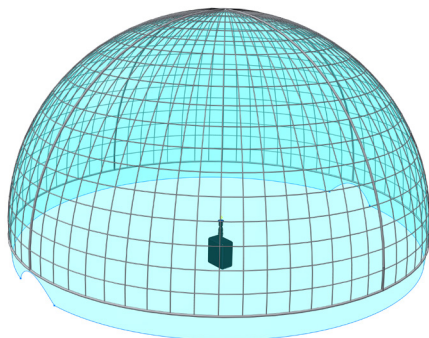
Active Image on Projector Panel



The illustration shows the active pixels used to project a hemisphere. A full hemisphere is projected as a circle of (active) pixels. This is a single channel example of the HSRZ-55 projecting a 3-Chip 4K DLP panel with focal length of 5.51 mm.

On-Screen Projection

Active Image on Screen



The illustration shows the HSRZ-55 projecting a 3-Chip 4K DLP from dome center to illustrate its zoom range.

Lens Specifications

Focal Length	5.5-6.5mm	MTF Center	70% @ 66lp/mm
Image Circle	19.542mm	MTF Edge	50% @ 66lp/mm
Max Half-Angle	92.5°	Lateral Color R-G	<=4 um
F/#	F/2.5	Lateral Color B-G	<=3 um
Focus Range	1m – Inf.	F-Theta Distortion	< -6.5% Max
Transmittance	72%	Relative Illum.	84-86%
Back Focus	TI 4K DLP Compatible		

HSRZ-55 Zoom Model Numbers

Navitar Part #*	Projector**	Resolution	Brightness ⁺
I-25254	Barco DP4K-32B	4K UHD	33,000
I-25254	Barco HDQ-4K35	4K UHD	35,000
I-25255	Christie DP4K3560	4K UHD	35,000
I-25255	Christie Roadie HD+35K	4K UHD	35,000
I-25933	Christie Boxer 4K30	4K UHD	30,000
I-25256	DP INSIGHT 4K QUAD	4K UHD	17,500
I-25256	DP INSIGHT LASER 4K	4K UHD	12,000

* Part numbers vary depending on projector manufacturer and mode

** Call a Navitar representative to discuss brightness greater than 20,000. Standard warranty does not apply.

+ Projector brightness is stated for reference only, it is not representative a maximum lens brightness rating.

NOTE:

For single projector pit mount domes, vertical angle should be considered as full angle for both vertical and horizontal.

Example: 6.5mm is 150.3°H x 150.3°V, not 184.7°H x 150.3°V
As this is a zoom, all angles between 150 - 180° are achievable.

