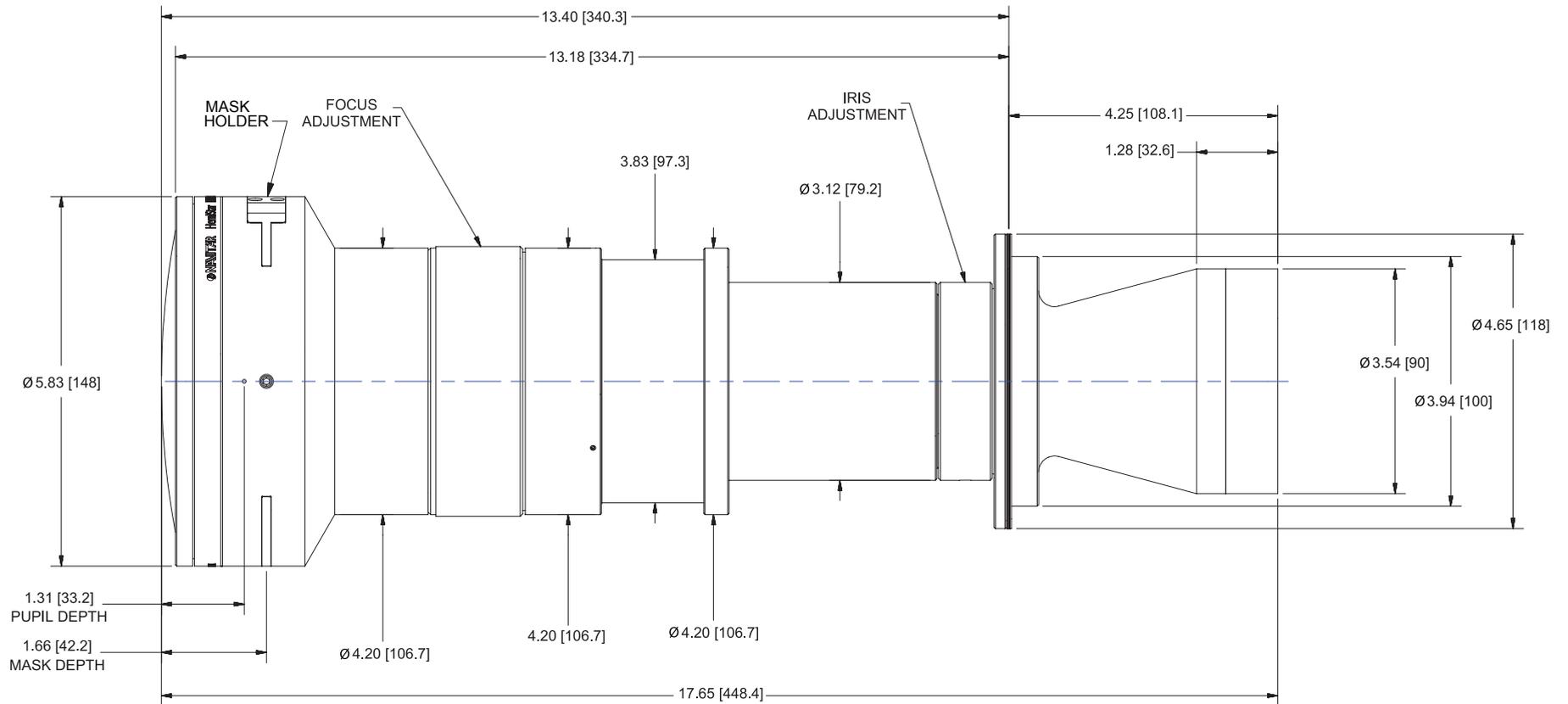


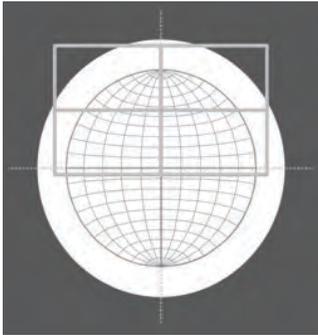
# HemiStar HM4K-I68

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	Diag.	TR Equiv.	H +/-%	V +/-%	V Angle +/-°
Original Panel	1.38" JVC LCoS	4096	2400	6.8	27.853	16.320	32.282	4096	2400	9.83	102.9	57.0	123.1	0.40	8%	49%	33.1



## Panel Usage

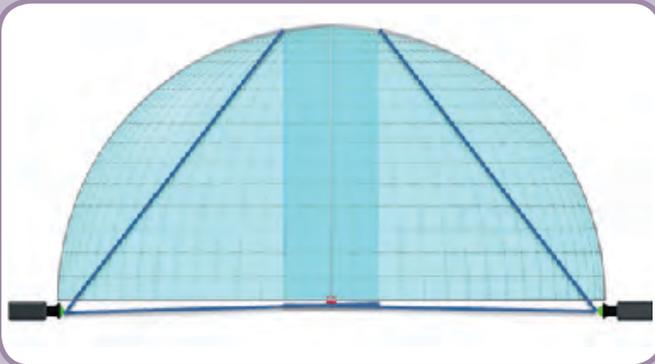
### Active Image on Projector Panel



The illustration shows the active pixels used to project a hemisphere. A full hemisphere is projected as a circle of (active) pixels. This dual channel examples shows the HM4K-I68 projecting a 3-chip 4K 1.38" D-ILA panel with blend allowance.

## On-Screen Projection

### Active Image on Screen



The illustration shows the projected image against a 5° azimuth-elevation grid. The projectors are positioned at dome edges and uniformly cast a hemispherical beam to the screen.

## Lens Specifications

<b>Focal Length</b>	16.81mm	<b>MTF Center</b>	71% @ 73 lp/mm
<b>Image Circle</b>	32.3mm	<b>MTF Edge</b>	35% @ 73 lp/mm
<b>Max Half-Angle</b>	61.6°	<b>Lateral Color R-G</b>	<3µm
<b>F/#</b>	F/3.2	<b>Lateral Color B-G</b>	<4µm
<b>Focus Range</b>	2m – Inf.	<b>F-Theta Distortion</b>	< -11.9% Max
<b>Transmittance</b>	73-86%	<b>Relative Illum.</b>	>87%
<b>Back Focus</b>	JVC 4K LCoS compatible		

## Suggested Projectors

Navitar Part #*	Projector	Resolution	Lumens
I-23280	JVC DLA-SH7NLG	4096 x 2400	5000
I-23280	JVC DLA-SH4KNLG	4096 x 2400	3500

\* Part numbers vary depending on projector manufacturer and model.

