

AXIOM



GREENSEER GIMBAL SPECIFICATIONS



Gimbal Name	Greenseer Color	Greenseer Mono	Greenseer Color + Laser	Greenseer Mono + Laser	Photogram.
EO 1 Sensor	Sony IMX334	Sony IMX334	Sony IMX334	Sony IMX334	Sony IMX334
EO 1 Lens	6mm f/1.0	6mm f/1.0 IR	6mm f/1.0	6mm f/1.0	6mm f/2.8
EO 1 Resolution	4K 16:9	4K 16:9	4K 16:9	4K 16:9	4K 16:9
EO 1 HFOV	72°	72°	72°	72°	64°
EO 2 Sensor	Sony IMX334	Sony IMX334	Sony IMX334	Sony IMX334	Sony IMX334
EO 2 Lens	25mm f/2.4	25mm f/2.4 IR	25mm f/2.4	25mm f/2.4	21.8mm f/2.8
EO 2 Resolution	3840x2160	3840x2160	3840x2160	3840x2160	3840x2160
EO 2 HFOV	18°	18°	18°	18°	27°
EO Interface	MIPI	MIPI	MIPI	MIPI	MIPI
EO Low Light Performance	<0.01 lux	<0.002 lux	<0.01 lux	<0.002 lux	<0.01 lux
LWIR Lens	9.1mm f/1.0	9.1mm f/1.0	N/A	N/A	N/A
LWIR Resolution	320x240	320x240	N/A	N/A	N/A
LWIR HFOV	24°	24°	N/A	N/A	N/A
LWIR Interface	USB	USB	USB	USB	USB
LWIR Thermal Sensitivity	65 mK	65 mK	N/A	N/A	N/A
Mass (g)	78	78	75	75	78
Pitch Range	30° to -90°	30° to -90°	30° to -90°	30° to -90°	30° to -90°
Other Payload Features	N/A	N/A	4mW green laser	4mW NIR laser	N/A
Axes	3	3	3	3	3

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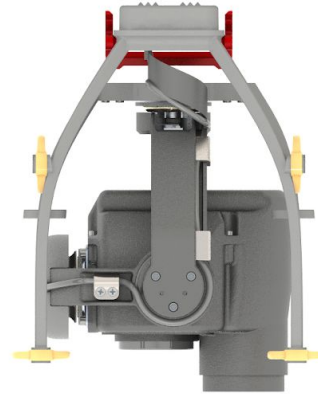
640 GIMBAL SPECIFICATIONS



Gimbal Name	640	640 Boson
EO 1 Sensor	Sony IMX334	Sony IMX334
EO 1 Lens	#7	#7
EO 1 Resolution	4K 16:9	4K 16:9
EO 1 HFOV	72°	72°
EO 2 Sensor	Sony IMX334	Sony IMX334
EO 2 Lens	25mm f/2.4	25mm f/2.4
EO 2 Resolution	3840x2160	3840x2160
EO 2 HFOV	18°	18°
LWIR Sensor	RPX IR640	Boson 640
EO Interface	MIPI	MIPI
EO Low Light Performance	<0.01 lux	<0.01 lux
LWIR Lens		18mm f/1.0
LWIR Resolution	640x480	640x512
LWIR HFOV	48°	32°
LWIR Interface	USB	USB
LWIR Thermal Sensitivity	≤60 mK	60 mK (standard) 20 mK (optional)
Mass (g)	78	91
Pitch Range	30° to -90°	30° to -90°
Axes	3	3

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KUMO PAYLOAD SPECIFICATIONS



	Name	Kumo Day	Kumo Night
EO 1	Sensor	IMX678	IMX678 mono
	Lens	f/1.0	f/1.0
	Resolution (px)	3840x2160	3840x2160
	HFOV (deg)	72	72
	GSD @75m	0.0215	0.0215
EO 2	Sensor	IMX678	IMX678 mono
	Lens	f/2.8	f/2.8
	Resolution (px)	3840x2160	3840x2160
	HFOV (deg)	9	9
	GSD @75m	0.0300	0.0300
LWIR	Sensor	640 FLIR Boson	640 FLIR Boson
	Lens	9.1mm f/1.0	9.1mm f/1.0
	Resolution (px)	640x512	640x512
	HFOV (deg)	24	24
	GSD @75m	0.05	0.05
	Other payload	1W white spot 4mW green laser 100 m rangefinder	1W NIR spot 4mW NIR laser 100 m rangefinder
	Axes	3	3
	Mass (g)	115	115
	Est. power draw (W)	8	8
	Pitch range (deg)	± 90 (±120)	± 90 (±120)
	Roll range (deg)	± 35	± 35
	Yaw range (deg)	± 30	± 30

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WISP GIMBAL SPECIFICATIONS



Gimbal Name	Wisp 24	Wisp 57	Wisp 640	Wisp EO
EO Sensor	S5KGM2	S5KGM2	S5KGM2	S5KGM2
EO Lens	LG C148AA754A	LG C148AA754A	LG C148AA754A	LG C148AA754A
EO Resolution	8000x6000	8000x6000	8000x6000	8000x6000
EO HFOV	66.8	66.8	66.8	66.8
EO Interface	MIPI	MIPI	MIPI	MIPI
LWIR Lens	4.0mm f/1.0	4.0mm f/1.0	4.0mm f/1.0	N/A
LWIR Resolution	320x240	320x240	640x480	N/A
LWIR HFOV	24°	57°	48°	N/A
LWIR Interface	USB	USB	USB	N/A
Illumination	N/A	N/A	N/A	450 lumen White or IR
Mass (g)	22	22	23	20
Pitch Range	-90° to +70°	-90° to +70°	-90° to +70°	-90° to +70°
Axes	2	2	2	2