



MANTIS™ IMAGING PAYLOAD SENSORS

AeroVironment's suite of micro-gimbals delivers lightweight, compact visual awareness solutions designed to satisfy demanding requirements for Intelligence, Surveillance, and Reconnaissance (ISR) operations. Combining high-resolution EO/IR sensors with multiple zoom levels and laser illuminator on select models, the Mantis line of compact payloads are designed to provide application flexibility and deliver superior imagery in any operational environment.

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Superior Image Quality, Dynamic Applications

MANTIS™

SPECIFICATIONS

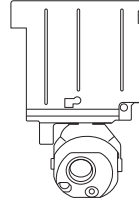
MANTIS™ i22



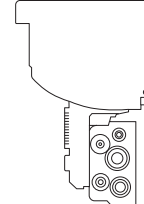
MANTIS™ i23



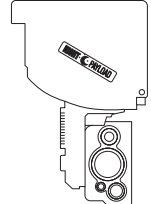
MANTIS™ i25



MANTIS™ i45



MANTIS™ i45 N



COMPATIBILITY	Wasp® AE	Raven®	Puma™ AE	Puma™ AE, Puma™ LE	Puma™ AE, Puma™ LE
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PHYSICAL

WEIGHT	9.7 oz (275 g)	13.6 oz (385 g)	22.9 oz (650 g)	31.4 oz (890 g)	32 oz (905 g)
BALL DIAMETER	2.5 in (6.4 cm)	3.1 in (7.9 cm)	5.8 in (14.7 cm)	4.2 in (10.7 cm)	4.2 in (10.7 cm)

ENVIRONMENT

OPERATING TEMPERATURE	-29 to 50 °C	-29 to 49 °C	-29 to 50 °C	-29 to 50 °C	-29 to 50 °C
WEATHERIZATION	All environment (waterproof)	Water resistant	All environment (waterproof)	All environment (waterproof)	All environment (waterproof)

SENSORS

ELECTRO/OPTICAL (EO)	Resolution: 5 MP HFOV: 31.5° to 6.7° Zoom: 4 Levels; 4.8x	Resolution: 5 MP HFOV: 31.5° to 6.7° Zoom: 4 Levels; 4.8x	Resolution: 5 MP HFOV: 31.5° to 6.7° Zoom: 4 Levels; 4.8x	Resolution: Dual 15 MP color HFOV: 56° to 1.2° Zoom: 6 Levels; 50x	--
THERMAL IR	Resolution: 640x512 px HFOV: 31.9° to 14.1° Zoom: 3 Levels; 2.3x	Resolution: 640x512 px HFOV: 31.5° to 14.1° Zoom: 3 Levels; 2.3x	Resolution: 640x512 px HFOV: 24.6° to 10.8° Zoom: 3 Levels; 2.3x	Resolution: 640x512 px HFOV: 21.4° to 10.8° Zoom: 3 Levels; 2x	Resolution: Dual LWIR 640x512 px HFOV: 40° to 5.3° Zoom: 6 Levels; 7.6x
LOW LIGHT (LL)	--	--	--	Resolution: 1.2 MP HFOV: 10.7° to 4.7° Zoom: 3 Levels; 4.6x	Resolution: 5 MP Monochrome HFOV: 17.8° to 2.3° Zoom: 6 Levels; 7.6x
LASER ILLUMINATOR	--	Yes	Yes	Yes	Yes

ROTATION LIMITS

PAN	+/- 120	360 rotation, continuous	360 rotation, continuous	360 rotation, continuous	360 rotation, continuous
TILT	-95° to +5°	-95° to +10°	-90° to +25°	-90° to +30°	-90° to +30°

INTERFACE

CONTROL	High speed serial	High speed serial	High speed serial	High speed serial	High speed serial
VIDEO	SD @30 fps	SD @30 fps	SD @30 fps	SD @30 fps	SD @30 fps