

DIPOLE



Parameter	Value
MWIR Waveband	3.6 - 5.1 μm
LWIR Waveband	7.7 - 10.4 μm
FPA Format	1280 x 720
Pixel Pitch	12 μm
f/#	2
Frames per second	30 Hz
NeDT MWIR/LWIR	24mK/24mK
NeDOLP MWIR/LWIR	0.11%/0.04%
Pan-Tilt	Pan +/-180°; Tilt 0° - 90°
Data Products	s0, s1, s2, DOLP, Orient, Fused
Focus	1m - infinity; Motorized
Zoom	Dual FOV; Motorized
FOV Narrow	7.6° x 4.3°
FOV Wide	24.7° x 13.9°
EFL Wide/Narrow	35mm/115mm
Size (before pan-tilt)	13.6"(L) x 8.15" (W) x 7.3" (H)
Weight	20 lbs (without pan-tilt)

System Configuration and Status

- Pixelated Polarizer Array on FPA
- SLS FPA technology from Night Vision Lab (VISTA program)
- Dual MWIR/LWIR sensing
- Polarimetric sensing
- Wide/Narrow FOV Objective Lens
- Candidate next generation targeting sensor for Apache helicopter

Upcoming Test/Demonstration 2018

- Side by Side test of DIPOLE & current Apache M-TADS sensor at 300 ft. tower Redstone Arsenal
- Flight Test Army ARMs helicopter



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