

# MiniPOP-D "Designator"

*Designator*  
**SMALL 8" EO PAYLOAD  
WITH SUPERIOR PERFORMANCE  
IS AVAILABLE NOW**

## Compact Multisensor Stabilized Electro-Optic Designator Payload

MiniPOP-D ("Designator") is the most advanced member of the lightweight 8" MiniPOP payload family.

MiniPOP-D is an innovative, single LRU, stabilized targeting payload that offers the best performance in its class.

MiniPOP-D provides the standard MiniPOP features of continuous zoom day and night observation, with additional capability of target designation & range finding.

MiniPOP-D is equipped with a state of the art, miniature, dual wavelength laser ("MLDRF"- Mini Laser Designator and Range Finder) that offers high power, low divergence and high duty cycle laser designation with eye-safe range finding mode.

MiniPOP-D is compatible with US and NATO laser guided munitions, including Hellfire missiles.

MiniPOP-D is the ideal solution for Intelligence, Surveillance, Target Acquisition and Reconnaissance (ISTAR) missions for small UAVs and also for ground forces (where it can be hand carried and operated by a single soldier with a new remote control unit).

- Small and Mini UAVs
- Land Vehicles and UGVs
- Light Marine Vessels and USVs
- Targeting sight for Infantry





## TAMAM's Product line

TAMAM Division of the Systems Missiles and Space Group of Israel Aerospace Industries (IAI) is a proven supplier of advanced, state of the art electro-optical (EO) stabilized payloads for a variety of applications. These include the LOROS (Long Range Observation System), the 14" MOSP (Multi-mission Optronic Stabilized Payload) family, the 10" POP (Plug-in Optronic Payload), the 8" MiniPOP and the ultra light 4" 1 Kg MicroPOP.

## MiniPOP-D General Description

MiniPOP-D is an advanced, dual axis, gyro stabilized payload, equipped with four electro-optic sensors in an 8", <17 lb compact package: a powerful, high resolution continuous zoom thermal camera, a continuous zoom color CCD, a new dual wavelength diode pumped Laser Designation & Range Finder (eye-safe) and a Laser Pointer. The payload's Line Of Sight can be controlled as follows: manually, auto-track, slaving or scanning.



## Technical Specifications (Typical Configuration)

Parameters		Value
Payload	Dimensions	Diameter - 8" (204 mm); Height - 11" (280 mm)
	Weight	< 17 lb (7.7 Kg)
	Field of Regard	Azimuth: 360° continuous, Elevation: -100° + +25°
	Slewing Rate	Up to 120°/sec
	Power consumption	< 150 W average (230 W during designation)
	Interfaces	RS422 communication data bus, NTSC/PAL video (option for Digital Video)
Thermal Camera	Detector	Indium Antimonide (InSb), wavelength 3+5 μm, resolution 640 x 480 pixels
	Field Of View	2° + 29° continuous optical zoom with additional 2x, 4x digital zoom
Day TV	Detector type	CCD 1/4" color with Near IR mode
	Field Of View	0.8° + 21° continuous optical zoom and x2 digital zoom (total zoom x 54)
Laser Designator & Range Finder	Wavelength	Dual: 1.06 μm for designation mode and 1.54 μm (eye-safe) for ranging mode
	Pulse rate	8 to 20 PPS (NATO coding compatible)
	Range Accuracy	< 5 m
Laser Pointer	Wavelength	830 nm
Automatic Video Tracker	Multi mode	Track, Adjust, Offset and Search, option for area tracker
Symbology (option)		Customer tailored symbology overlaid on the real time video image

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