



MP4

Ultra Lightweight Compact Observation System



MP4 is a 4", 1kg, lightweight day/night optronic stabilized payload for close area observation missions. The payload provides enhanced image capabilities for unmanned aerial or ground platforms.

APPLICATIONS

MP4 is a one Line Replacement Unit (LRU) open architecture payload, carrying a single sensor, either a "day" continuous zoom color camera or a "night" uncooled thermal imaging camera, that can be switched in minutes.

HIGHLIGHTS and BENEFITS

4", 1kg lightweight
Line Replacement Unit open architecture payload
Two axes stabilized, single sensor
By using quick release sensor slices on the same gimbal, the payload configuration can be changed in the field between "Day" and "Night" missions.
Unique design provides operational flexibility with low cost and easy maintenance.
One LRU system with no external electronic box. The "DAY SLICE" contains a day TV color zoom camera. The "NIGHT SLICE" contains an uncooled FLIR sensor.
Aerodynamic profile suitable for operation on mini unmanned air aerial and ground platforms.



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Technical Specifications

PAYLOAD

Dimensions	Diameter 4" (104mm), Height 7" (180mm)
Wegiht	1~1.2kg (2.2~2.6lbs) subject to configuration
Stabilization	< 150 μ Rad RMS (each axis)
Field of Regards	Azimuth \pm 170 $^{\circ}$, Elevation -90 $^{\circ}$ ~ +20 $^{\circ}$
Slewing Rate	Up to 100 $^{\circ}$ /sec
Power consumption	+7.5 ~ +8.4V, 2Amp
Interfaces	RS232 or RS422 communication data bus, NTSC/PAL video

THERMAL IMAGER

Detector type	8-12 μ m Microbolometer
Resolution	320 x 240 pixels (Option 640x480)
Field of View (FOV)	1 FOV of 24 $^{\circ}$ x 18 $^{\circ}$
Option 2 FOVs	NFOV 7 $^{\circ}$ x 5.3 $^{\circ}$, WFOV 20 $^{\circ}$ x 15 $^{\circ}$
Electronic Zoom	X2, x4

DAY TV

Detector type	CCD color with Near IR
Field of View (FOV)	Continuous zoom 4.6 $^{\circ}$ to +46 $^{\circ}$

OPTIONS

**Laser Pointer, Automatic Video Tracker,
VMD**
