

M-STAMP

Miniature ISRT Systems for Small UAVs



The M-STAMP is a member of the STAMP STabilized Miniature Payload family, which was developed to meet demanding Intelligence, Surveillance, Reconnaissance and Targeting (ISRT) missions on Small UAV (SUAV) platforms.

Miniature, gyro stabilized electro-optic system, containing an un-cooled thermal camera, and day high-resolution Mega-Pixel CMOS camera Built in Automatic Video Tracker (optional).

CONTROP's STAMP family of EO/IR systems are ruggedized for high shock landings, which are common amongst SUAV platforms.

Applications

Realtime Situation Awareness and Tactical Response
Over-the-Hill Reconnaissance
Special Operations
Force Protection
Law Enforcement
Search & Rescue



Technical info:

KG	1.36kg
Ø	152mm
KM	10km

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Miniature ISRT Systems for Small UAVs

CONTROP
Turning Vision Into Reality

Features

Superior Gyro-stabilized Image
Single LRU System
Accurate Geo-locations
Advanced Image Processing
Lightweight and Compact Design

Optional

Automatic Video Tracker
Laser Pointer
Nose or Belly Mounting
Inertial Navigation Modes
Video Embedded Telemetry

Image Processing

Local AGC
Video Enhancement
Picture-in-Picture (PIP)




Display


Control Unit


Flight Computer


Downlink


Mission Computer

Electro-Mechanical

Type: 3 Gimbal Gyro-stabilized System
Angular Velocity: P: +70° to -40° (Belly Mount +15° to -95°)
R: ± 170° (Optional 360° x N)
Field of Regard: Up to 60° / Sec in Roll
Up to 30° / Sec in Pitch
Angular report accuracy: 1° (1σ) relative to A/C

Thermal Imaging (TI) Sensor

Spectral Range: 8-12μm
Detector: Infrared, Un-Cooled Microbolometer, Amorphous Silicon
Lens: 640 X 480 Pixels FPA (pitch 17μ)
Horizontal Fields of view (± 10%): 37° (WFOV) to 11.7° (NFOV)
Continuous optical zoom x3.2
ELct Zoom-3°

HD Daylight Channel

Camera: CMOS High Resolution Color 1280x720
Lens: Continuous Zoom Lens x20
Field of View: 720p: 5° to 50° horizontal FOV
PAL/NTSC: 2° to 40° horizontal FOV
Elec. Zoom x4

Laser Pointer (optional)

Wavelength: 0.8μm

Physical Characteristics

Weight (Turret): 1.36 kg (3lb)
Dimensions (Turret): (Ø)168mm (6.6") x (H)191mm (7.5")

Electrical Interface

Voltage: 24 VDC
Power Consumption: 23Watt
Video Outputs: PAL, NTSC, HD-SDI

Environmental Conditions

Temperature: - 10° C to + 45° C

CONTROP reserves the right to change specifications without prior notice