The T-STAMP-XD 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.

The STAMP systems provide maximum sensor range performance by using highly sensitive sensors, gyro-stabilization and unique video enhancement algorithms.

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:

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<table>
<thead>
<tr>
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<tbody>
<tr>
<td>KG</td>
<td>5.75kg</td>
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<td>ø</td>
<td>220mm</td>
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<tr>
<td>KM</td>
<td>15km</td>
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Thermal Imaging detection range to NATO target
Miniature ISRT Systems for Small UAVs

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

Optional
Automatic Video Tracker
Laser Pointer
Laser Designation with See Spot
Nose or Belly Mounting
Inertial Navigation Modes
Video Embedded Telemetry

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

Electro-Mechanical
Type: Gimbals Gyro-stabilized System
Field of Regard:
  Bell Mount: Elevation: 30° to -120° (Horizon)
  Azimuth: N x 360°
  Nose Mount: Elevation: 45° to -37° (Nadir)
  Roll: N x 360°
Angular Velocity:
  Azimuth: 60° / Sec (max)
  Elevation: 60° / Sec (max)

Thermal Imaging (TI) Sensor
Spectral Range: 3-5 μm
Detector: 640x512 Pixels FPA (pitch 15μ)
Lens: Continuous Zoom Lens x15
Field of View:
  Horizontal: Narrow FOV 2° to Wide FOV 30°
  Elec. Zoom x4

HD Daylight Channel
Camera: 2MP CMOS High Resolution Color 1280x720
Lens: Continuous Zoom Lens x17
Field of View:
  WFOV 38° to NFOV 2.3° (Digital Zoom x8)

Laser Designator (optional)
Spectral Range: 1064 nm
Energy: 30 mJ or 50 mJ
Coding: NATO

Laser Rangefinder (optional)
Type: Eyesafe, Class 1
Wavelength: 1.54 μm
Range: 75 – 8,000 m

Laser Pointer (optional)
Wavelength: 0.85 μm
Output Power: 120mW CW

Physical Characteristics
Weight (Turret): 5.75 kg (12.7lb)
Dimensions (Ball): Ø120mm (8.66")
Dimensions (Turret): Ø193mm (7.6") x (H)335mm (13.2")

Electrical Interface
Voltage: 24-28 VDC
Power Consumption: 65 Watt (Nominal), 150 Watt (Max)
Video Outputs: HD-SDI 720p and PAL, H.264 (Optional)

Environmental Conditions
Temperature: -20° C to +45° C

CONTROP reserves the right to change specifications without prior notice

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