The T-STAMP-XR 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:
- KG 3.5kg
- Ø 178mm
- KM 15km

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)

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**Electro-Mechanical**
- **Type:** 3 Gimbal Gyro-stabilized System
- **Angular Velocity:**
  - Up to 60°/sec in Roll
  - Up to 30°/sec in Pitch
- **Field of Regard:**
  - Belly Mount: Elevation: 40° to -120° (Horizen)
  - Azimuth: N x 360°
  - Nose Mount: Elevation: -40° to +82° (NADIR)
  - Roll: N x 360° (slip ring)

**Thermal Imaging (TI) Sensor**
- **Spectral Range:** 3.5-4.2μm
- **Detector:** 3rd generation, XBN
- **Lens:** 640x512 Pixels FPA (pitch 15μ)
- **Lens:** Continuous Zoom Lens x15
- **Field of View:** Horizontal: Narrow FOV 2° to Wide FOV 30°

**HD Daylight Channel**
- **Camera:** 2MP CMOS High Resolution Color 1280x720
- **Lens:** Continuous Zoom Lens x17
- **Field of View:**
  - 720p: 2.3° to 40° horizontal FOV
  - PAL/NTSC: 1.8° to 31° horizontal FOV
  - Elec. Zoom x8

**Laser Designator (optional)**
- **Spectral Range:** 1064 nm
- **Energy:** 10 mJ
- **Maximal Range:** 1 km
- **Coding:** NATO

**Laser Pointer (optional)**
- **Wavelength:** 0.8μm

**Physical Characteristics**
- **Weight (Turret):** 3.5 kg (7.7lb)
- **Dimensions (Turret):** Ø178mm (7") x (H)301mm (11.8")

**Electrical Interface**
- **Voltage:** 24-28 VDC
- **Power Consumption:** Average: 40 Watt, Max: 95 Watt
- **Video Outputs:** PAL or NTSC or HD SDI, H.264 (optional)

**Environmental Conditions**
- **Temperature:** -10° C to +45° C (initializing)
  - -20° C to +45° C (operating)

CONTROP reserves the right to change specifications without prior notice.

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