

T-STAMP-XR

Miniature ISRT Systems for Small UAVs



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

CONTROP
Turning Vision Into Reality

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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)




Display


Control Unit


Flight Computer


Downlink


Mission Computer

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 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
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Physical Characteristics

Weight (Turret):	3.5 kg (7.7lb)
Dimensions (Turret):	(Ø)178mm (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)
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CONTROP reserves the right to change specifications without prior notice