

T-STAMP-XD

Miniature ISRT Systems for Small UAVs



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:

 KG	5.75kg
	220mm
 KM	15km

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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
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:	Belly 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 15 μm)
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):	(\varnothing)220mm (8.66")
Dimensions (Turret):	(\varnothing)193mm (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
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CONTROP reserves the right to change specifications without prior notice