

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.

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Miniature ISRT Systems for Small UAVs

Electro-Mechanical

Type: 3 Gimbals Gyro-stabilized System
 Field of Regard: Belly Mount: Elevation: -100° to 30° (Horizon)
 Azimuth: N x 360°
 Nose Mount: Elevation: -37° to 45° (NADIR)
 Roll: N x 360°

Thermal Imaging (TI) Sensor

Spectral Range: 3.5-4.2 μm
 Detector: 640x512 Pixels FPA
 Field of View: 2° - 30°
 Zoom: Continuous Optical Zoom x15
 Digital Zoom x4

HD Daylight Channel

Camera: FHD 2MP CMOS High Resolution Color
 Field of View: 2.3° - 42°
 Zoom: Continuous Optical Zoom x18
 Digital Zoom x4

Laser Designator (Configuration 1)

Spectral Range: 1064 nm
 Energy: 50 mJ
 Coding: STANG 3733
 Maximal Range: 4 km
 ITAR: ITAR free (Optional)

Laser Rangefinder (Configuration 2)

Type: Eyesafe, Class 1
 Wavelength: 1550 nm
 Range: 75 – 8,000 m

Laser Pointer (Configuration 3)

Wavelength: 0.8 μm

Physical Characteristics

Weight (Turret): 5.9 kg (13lb)
 Dimensions (Ball): (Ø)226mm (8.9")
 Dimensions (Turret): (Ø)193mm (7.6") x (H)337mm (13.2")

Electrical Interface

Voltage: 22-32 VDC
 Power Consumption: 50 Watt (Nominal), 95 Watt (Max)
 Video Outputs: HD-SDI 720p, H.264/5 (Optional)

Environmental Conditions

Temperature: -20° C to +45° C
 Humidity: 95% RH
 Shock Amplitude: 22g



5.9kg



GPS



Control Unit



Command & Control Systems

Features

Superior Gyro-stabilized Image
 Single LRU System
 Accurate Geo-locations
 Advanced Image Processing
 Lightweight and Compact Design
 Automatic Video Tracker
 Video Motion Detection

Optional

Laser Pointer
 Laser Designator
 Inertial Navigation Modes
 Video Embedded Telemetry

Image Processing

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