

T-STAMP-XED

Miniature ISRT Systems for Small UAVs



The T-STAMP-XED 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: 10° to -100° (Horizon)
 Azimuth: N x 360°
 Nose Mount: Elevation: -40° to +80° (NADIR)
 Roll: N x 360°

Thermal Imaging (TI) Sensor

Spectral Range: 3-5 μ m
 Detector: 640x512 Pixels, 10 μ m
 Field of View: 1.6° - 20°
 Zoom: Continuous Optical Zoom x13

Daylight Channel

Camera: FHD 3.2MP CMOS High Resolution Color, Global Shutter
 Field of View: 1.48° - 57°
 Zoom: Continuous Optical Zoom x40

Laser Designator (Optional)

Spectral Range: 1064 nm
 Energy: 30 mJ
 Coding: STANG 3733
 Maximal Range: 3.2 km
 ITAR: ITAR free

Laser Rangefinder (Optional)

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

Laser Pointer (Optional)

Wavelength: 0.8 μ m

Physical Characteristics

Weight (Turret): 3.85 kg (8.5lb)
 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: HD-SDI 1080p, H.264/5

Environmental Conditions

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

Features

Superior Gyro-stabilized Image
 Single LRU System
 Three (3) Gimbal System
 Accurate Geo-locations
 Advanced Image Processing
 Lightweight and Compact Design
 Automatic Video Tracker

Optional

Nose or Belly Mounting
 Inertial Navigation Modes
 Video Embedded Telemetry
 Video Recording

Image Processing

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

 **BEST IN CATEGORY DRI**

 **CLASS LEADING SWaP**
 Highest performing, lightest weight gimbal

 **BATTLE PROVEN**
 TRL 9- Mission Tested & Proven

 **ITAR Free**

 **SUPERIOR STABILITY**

 **AI CAPABILITIES**
 VMD ,ATR , SMART TRACKING



3.85 kg (8.5lb)



Control Unit



Command & Control Systems