MILITARY | INDUSTRIAL | COMMERCIAL

T-STAMP-XR

SMALL GYRO-STABILIZED DUAL SENSOR CAMERA PAYLOAD

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. CP's STAMP family of EO/IR systems are ruggedized for high shock landings, which are common amongst SUAV platforms. CP's STAMP family of miniature EO/IR systems have been in worldwide daily operation for over a decade, on a wide variety of SUAVs, drones, VTOLs and aerostat platforms.

APPLICATIONS

- Realtime Situation Awareness and Tactical Response
- Over-the-Hill Reconnaissance
- Special Operations
- Force Protection
- Law Enforcement
- Search & Rescue

FEATURES

- Superior Gyro-stabilized Image
- Single LRU System
- Accurate Geo-locations
- Advanced Image Processing
- Lightweight and Compact Design

Who We Are

CP Technologies designs, fabricates and integrates standard and customized high-performance computing platforms and LCD monitors for military, industry, and commercial applications.

Using COTS components, CP Technologies provides solutions for customers who need reliable systems that will operate in a variety of harsh conditions and who require revision control and hardware consistency for multi-year programs.

CP Technologies is an ITAR Registered and ISO 9001:2015 Certified business that has been operating in Southern California for over twenty years.

Assembled in the USA
ISO 9001:2015 Certified
ITAR Registered

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TECH SPECS

ELECTRO-MECHANICAL

Type	3 Gimbal Gyro-stabilized System
Angular Velocity	Up to 60°/s in Roll Up to 30°/s 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)

PHYSICAL SPECS

Weight	7.7lbs / 3.5kg
Dimensions	7” (178mm) Ø x 11.8” (301mm) H
Temperature	-10° C to 45° C Initializing -20° C to 45° C Operating

OPTIONAL

- Automatic Video Tracker
- Laser Pointer (0.8 µm)
- Laser Designation
- Nose or Belly Mounting
- Intertial Navigation Modes
- Video Embedded Telemetry

IMAGE PROCESSING

- Local AGC
- Video Enhancement
- Picture-in-picture (PIP)

HD DAYLIGHT CHANNEL

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

THERMAL IMAGING (TI) SENSOR

Spectral Range	3.2-4.2 µm
Detector	3rd Generation, XBN
Lens	Continuous Zoom x15
Field of View	Horizontal: Narow FOV 2° to Wide FOV 30°

LASER DESIGNATOR (Optional)

Spectral Range	1064 nm
Energy	10 mJ
Range	1 km
Coding	NATO

ELECTRICAL INTERFACE

Voltage	24-28 VDC
Consumption	40W Average, 95W Max
Video Out	NTSC/PAL, HD DSI, H.264(optional)

ENGINEERED TO YOUR SPECIFICATIONS

- In-house engineering department
- Design and build of rapid prototypes. Experience with solving difficult customer application problems through knowledge of the industry and custom system design and manufacturing capability
- Our Engineers use Solid Works 3D CAD modeling software for mechanical design and thermal simulation
- Design experience with MIL-STD-167, MIL-STD-461, MIL-STD-810, and MIL-S-901, in addition to FCC, UL, CE, and country specific agency requirements

REVISION CONTROL & CONFIGURATION MANAGEMENT

- Our Program Managers will assure your products are revision controlled for the life of the program
- Configuration Management to assure TAA Compliance and system compatibility
- One part number for life of the program
- Counterfeit and obsolescence management

FACILITY AND TEST

- All integration work is performed in a state-of-the-art, ESD-controlled facility
- Our facility has 23,000 sqft and has dedicated 12,000 sqft to manufacturing and 3,000 sqft to engineering
- Operate to anti-static standard ANSI/ESD S20.20-2007 and electronics assembly standard IPC-A-610, Revision E-2010

QUALITY COUNTS

- ISO 9001:2015 Certified
- 100% system inspection before shipment
- All integrated systems undergo a minimum 24-hour system test and burn-in before shipment to the customer
- Assistance with 3rd party verification of system specifications
- 5-year warranty on all servers and 3-year warranty on LCD monitor products
- TAA compliant
- Built in the USA

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