System Overview

The payload is the soul of the drone. Thanks to the variety choices of payloads, drones can be used in different industries. This payload can be mounted on multiple drones, such as X820, X1100, X1550. Featuring a dual lens, this camera provides an all-in-one solution for capturing video surveillance for outdoor applications. Together with Thermal and Visible Technology, the camera is the perfect solution for dark. The series combines one thermal camera for monitoring in total darkness and one visible camera for confirming details.

Functions

Reduce Vibration Design
The shock absorber board and shock absorber ball work together to guarantee PTZ camera stability and get clearer video.

Interoperability
The camera conforms to the ONVIF (Open Network Video Interface Forum) specifications, ensuring interoperability between network video products regardless of manufacturer.

Quick Assembly and Disassembly
This Payload adopts quick mounting and dismatling structure, Installation screws are secured on the shock absorber plate, in order to keep them fixed.

Technical Specification (Payload)

Visual Light Parameter
- Sensor: 1/2.8" STARVIS™ CMOS
- Max. Image Restion: 1920(H)x1080(V), 2 Megapixels
- Min. Illumination: Cor:0.05Lux@F1.6, B/W:0.005Lux@F1.6
- Defog: Support
- Electronic Shutter Speed: 1/1s~1/30,000s
- Electronic Image Stabilization (EIS): Support
- Focal Length: 4.5mm~135mm
- Digital Zoom: 16X
- Optical zoom: 30X

Thermal Parameter
- Resolution: 640*512
- Lens: 19mm
- Digital Zoom: 16x
- Frame Rate: Main stream: 1280×1024/720P(1~25/30fps)
- Sub stream1: 640×512/320×256 (1~25/30fps)
- Temperature Range (Low): -20 ~ 160°C
- Temperature Sensitivity: <30mK@f/1.0
- Temperature Range (High): 160 ~ 550°C
- Temperature Tolerance: ≤2%
- PTZ Parameter
  - Pan/Tilt Range: Pan: ±170°; Tilt: -90° ~ 45°
  - Pan/Tilt Speed: Pan: 130°/s; Tilt: 130°/s
  - Gimbal Dimension: 226.7*207.6*131.9mm
  - Gimbal Features: Cruise following, Cruise locked
  - Auto-tracking: Support
  - 3D positioning: Support
  - Protection Level: IP54
  - Working Env. Temp.: -20 ~ 60°C
  - Net Weight: 1275g