

# DHI-UAV-GA-TV-2030TA

## Thermal Hybrid PTZ Camera



### 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 dismounting 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 Resolution	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

- 640x512 VOx uncooled thermal sensor technology
- Support temperature measurement
- 1/2.8" STARVIS™ CMOS
- Powerful 30x Optical Zoom
- Support Defog
- Anti-vibration Axis: 3 Axis
- Support Flight Platform: X820, X1100, X1550

Angle of View	H: 67.8° ~ 2.77°
Max. Aperture	F1.6 ~ F4.4
Frame Rate	Main stream: 1080P/720P/704x480 (1~25/30fps)
	Sub stream1: 704x480/352x240(1~25/30fps)
Video Compression	H.265/H.264+/H.264
Storage	Micro SD Card 128G
<b>Thermal Parameter</b>	
Resolution	640*512
Lens	19mm
Digital Zoom	16x
Frame Rate	Main stream: 1280x1024/720P(1~25/30fps)
	Sub stream1: 640x512/320x256 (1~25/30fps)
Temperature Range(Low)	-20 ~ 160°C
Thermal Sensitivity	<30mK@f/1.0
Temperature Range(High)	160 ~ 550°C
Temperature Tolerance	≤2%
<b>PTZ Parameter</b>	
Precision	±0.01°
Anti-vibration Axis	3 Axis
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