

# TMS7108 Series

## UAV Payload



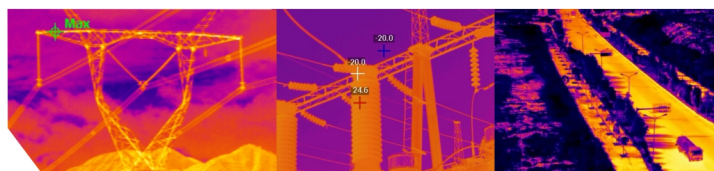
**TMS7108 Series** are payload system that consists with 3-axis stabilized gimbals, uncooled IR thermal imaging camera or HD visible camera. This system is designed for UAV with small size and light weight to be increasing the UAV's flight time, not only monitoring and inspecting air-to-ground conditions, but also getting object's temperature.

### Features and Benefits

- 32G storage capacity for IR or visible photos and videos storage
- IR video can overlay payloads status information and the temperatures of max, min and center
- Video can overlay payloads status information
- The azimuth angle and pitching angle can be operated manually

### Applications

- Power line inspection
- Environmental monitoring
- Forest firefighting
- Law enforcement
- Solar power inspection
- Rescue after disaster



# Specifications

TMS7108A		TMS7108B	
IR Thermal Imaging Camera			
Detector Resolution	640×512	N/A	
Spectral Range	8μm~14μm		
Focal Length	25mm		
Frame Rate	≥25Hz		
FOV	≥28.7°×23.0°( ±5% )		
Focus	Auto/Motor		
Temperature Range	-20°C~150°C ( high version )		
Temperature Accurcy	±2°C or 2% ( high version )		
Color Palette	8		
Digital Zoom	×1, x2, x4		
IR Image Format	JPG/16 bit raw rate		
IR Video Formatt	AVI/16 bit raw rate		
HD Visible Camera			
Resolution	N/A	16 Megapixel	
Video Resolution		1920×1080	
Focal Length		4.7mm~47mm	
Frame Rate		≥25Hz	
Zoom		10x optical continuous zooming	
Storage Format		JPG, AVI	
Servo Platform			
Azimuth Angle	-180°~180°		
Pitching Angle	-120°~90°		
Roll Angle	-35°~35°		
Power			
Input Voltage	DC 20V~26V		
Power Consumption	Standard: ≤15W; Peak: ≤30W		
Interface			
Control Interface	RS422		
Video Interface	HDMI		
Storage Interface	Mini SD Card (32G)		
Physical Characteristics			
Weight	≤800g	≤750g	
Dimension	≤135mm×110mm×180mm		
Environmental Adaptability			
Operating Temperature Range	-20°C~65°C		
Storage Temperature Range	-20°C~65°C		

## WUHAN GUIDE INFRARED CO.,LTD

No.6 Huanglongshan South Rd,Wuhan,Hubei,P.R.China,430205

T : +86 27 8129 8339 / 8340

E : enquiry@guide-infrared.com

## M&T INNOVATIONS (M) SDN. BHD.

No.32-2A, Jalan PJU 1/3A, Sunwaymas Commercial Centre,  
47301 Petaling Jaya, Selangor Darul Ehsan, Malaysia.

T : +603 7803 1145

F : +603 7803 1147

E : sales@mt-engg.com



<http://www.guideir.com>

( Copyright©2016 Wuhan Guide Infrared Co., Ltd. All rights reserved. )