

# TI30|TI60

## UAV Thermal Imaging Cameras

**ULIRVISION TI30 & TI60** are thermal imaging modules designed for UAV applications. With small size and light weight, they offer surprising thermal images & videos with temperature on each spot, serve your purposes in the air.

### Features

---

384×288|640×480, 17μm uncooled FPA detector

---

Auto tracking of hot spots and showing the temperature values

---

Thermal images, temperature and temperature data flows are saved

---

Light weight, less than 150g

---

Compatible with the main communication protocol of UAV

---

### Applications

---

UAV & aircraft & robot

---

applicationOnline monitoring system

---

Automation security

---



ULIRVISION

## Technical Specifications

Item	TI30	TI60
<b>Detector Data</b>		
Type	Uncooled FPA	
IR resolution	384×288	640×480
Pixel pitch	17μm	
Spectral range	7.5~14μm	
NETD/Sensitivity	65mK	
<b>Lens</b>		
FOV/Focal distance	24°×18°/15mm	24°×18°/25mm
Minimum imaging distance	50cm	
I FOV	1.3mrad	0.65mrad
Focus	Manual	
<b>Image Performance</b>		
Image enhancement	IVE image enhancement algorithm	
Frequency	50Hz/60Hz	
Digital zoom	2X、4X	
Color palletes	10 palletes(including iron, rainbow, white hot and black hot etc.)	
<b>Measurement</b>		
Temperature range	-20℃~+150℃	
Temperature accuracy	±2℃/±2%(reading)	
Highest temperature tracking	Display the location and value of the highest temperature point	
Measurement correction	Auto	
Emissivity correction	Adjustable from 0.01 to 1.0 or selected from list of materials	
Background temperature correction	Auto	
Atmospheric transmissivity correction	Auto	
Fliter or window transmittance	Auto	
Setting function	Date/time, temperature unit °C/°F/K, language	
<b>Data Storage</b>		
Temperature data	Customized UDS, use IRSee to analyze	
Temperature data flow	Customized UTD, use IRSee to playback, freezable、loop、image processed when playing	
Image format	JPG format	
Video format	AVI format, H.264 compression	
SD card	32G high speed TF card	
Storage control	Serial port command, level trigger or key trigger is optional	
Report	Word format, customized format function	
<b>Interfaces</b>		
Power	Yes	
Video output	CVBS	
Control port	RS232	
Installation Interface	UNC 1/4"-20 standard interface, M3 threaded joint	
<b>Power System</b>		
DC supply	DC: 12V	
Power consumption	<3.6W	
<b>Environment Parameters</b>		
Operation temperature range	-30℃~+60℃	
Storage temperature range	-40℃~+70℃	
Humidity	≤95%(Non-condense)	
EMC	CE/FCC	
Vibration	2G(IEC60068-2-6)	
Shock	25G(IEC60068-2-29)	
Encapsulation	IP54(IEC60529)	
<b>Physical Data</b>		
Size(L×W×H)	95mm×55mm×60mm	
Weight	≤150g(with 25mm athermal lens)	
<b>Packing</b>		
Standard	Thermal imaging camera with 25mm athermal lens, intergation cable, software CD, warranty card, certificate, calibration	