



**Guide  
smart**

**GUIDE GTIR800Z Infrared Camera for  
Drones**



Application field : Thermography Search and Rescue

GTIR800Z Series is designed for drone. With infrared and visible light dual channel , GTIR800Z can work in night and bad weather. With small size and light weight can increase the drone' s flight time.

Compact and light weight, with infrared and visible light dual channel

Infrared resolution and frame rate up to  $800 \times 600 @ 25\text{Hz}$ , temperature range -  $20 \sim 150^{\circ}\text{C}$

Support one-button auto focus and dedicated micro- focusing

Support infrared 9 pseudo-color modes and infrared contrast/brightness adjustment

Optional distribution box. Support SBUS, PWM, serial port multiple control interfaces

Support picture-in-picture and dual-light switching. Four display modes: infrared, visible, infrared picture-in-picture, visible light picture-in-picture

Total weight	< 470g (Incl. junction box)
size	160mm×150mm×151mm
Installation method	Camera PTZ, Junction box machine, detachable
External interface	PWM、S-BUS、Serial port、RS-422
<b>PTZ</b>	
Three-axis stabilization system	Azimuth, roll, pitch
	Azimuth axis: -200°~200°
Frame angle	Roller shaft: -45° ~ 45°
	Pitch axis: -135°~45°
Remote angle	Azimuth axis: -180°~180°
	Pitch axis: -90° to 30°
Maximum rotation speed	> 30°/s
Image stabilization performance	Image stabilization accuracy: $\leq 0.02^\circ$
Navigation Follow-up	Azimuth follows the body angle, pitch axis and roll axis    stabilization image
<b>Camera</b>	
Resolution	Infrared: 800*600
	Visible light: 1280*720
Focal length	Infrared: 20mm F1.2
	Visible light: 3mm F2.2
Image mode	Infrared, visible, infrared picture-in-picture, visible    picture-in-picture
Zoom mode	Infrared: One-button focus, micro-focusing    + -
	Visible light: One-button focus
Image storage format	Infrared: JPG, Visible: JPG
Video storage format	Infrared::mp4、 irgd, visible: mp4
Temperature    Measurement	Temperature    range: -20°C ~ 150°C
	Accuracy: $\pm 2^\circ\text{C}$ or $\pm 2\%$ (whichever is greater)
Memory card type	MicroSD, support 128G
Working temperature	-20°C~55°C

\*Technical parameters are subject to change without notice.