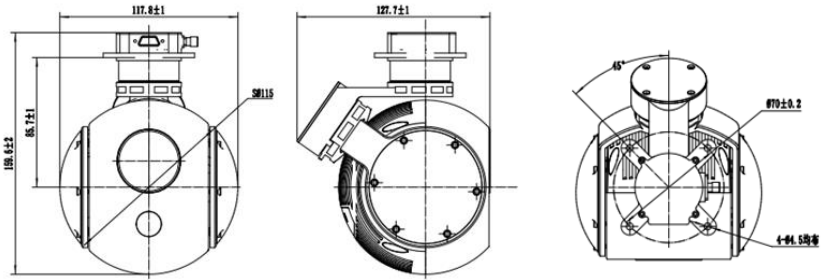


## 10X Optical Zoom Dual-light Tri-axis Light-weight Gimbal



### Introduction

Integrating 10X optical zooming low-illumination RGB camera and un-cooled 640\*480 35mm prime lens thermal camera inside, the gimbal system achieves high definition image with outstanding auto-zooming and target tracking capabilities. The 10X Optical Zoom Dual-light Tri-axis Light-weight Gimbal has better performance in image stabilization by adding an axis in rolling so that the gimbal always keeps the image in positive direction. It's compact structure and unique function makes the gimbal suitable for wide range of applications including monitoring, anti-terrorism pipeline examination etc.

### Features

- ◆ Dual-mode: 10X optical zoom daylight camera + 640\*480 un-cooled thermal camera
- ◆ Tri-axis gyro structure
- ◆ Low-illumination imaging
- ◆ Small in size, light in weight
- ◆ Auto target tracking
- ◆ Temperature measurement ( optional )
- ◆ Video recording
- ◆ Qualified for fixed-wing, single-rotor, multi-rotor and other aircrafts

Parameter

Controlling	Yaw	360°*N
	Pitch	-90° ~ 30°
	Roll	± 70°
	Interface	RS 232, (TTL, RS 422, IP optional)
RGB camera	Pixels	1920*1080
	Sensor	1/3 inch
	FOV	H:WIDE 58.2° TELE 6.9°
	Diaphragm	F1.8~F3.4
	Focal range	3.3~33mm±5%
	Optical zoom	10X optical zoom
Thermal camera	Working system	Un-cooled long wave (8μm ~ 14μm)
	Detector pixels	640*480
	Pixel size	17μm
	Focusing	Athermalizing
	Emissivity correction	Emissivity 0.01~1 adjustable
	NETD	≤50mk (@25°C)
	MRTD	≤550mk (@Characteristic frequency)
	Lens	35mm
	Image enhancement	Automatically adjusts image brightness and contrast
	Color palette	Black hot, white hot, pseudo color
	Automatic non-uniformity correction function	Yes
	Digital zoom	2X 4X
	Time synchronization function	Yes
	Temperature measurement mode	Temperature bar (pseudo display) HT LT field center temperature
	Range of TM	0°C~ 120°C
Tracking index	Data frequency	30/25Hz
	Minimum target contrast	5%
	Minimum target size	16*16 pixels
	Maximum target size	128*128 pixels
	Tracking velocity	32 pixels/frame
Electric features	Video output interface	NET: UDP/RTSP SDI, RS422
	Working voltage	10-16V
	Working current	Quiescent current: 600mA Dynamic current: 800mA
	Power consumption	average≤12W, Max≤20W
	Video storage	Picture in picture
Environmental adaptability	Working temperature	-10°C~ 50°C
	Storage temperature	-20°C~ 70°C
Others	Size of device	L117.8mmxW127.7mmxH159.6mm
	Weight	≤900g