

## BTC - 57 Dual EO/IR Micro Gimbal

### Weight and Size

Gross Weight: 70 grams with sensor and wiring  
 Dimensions: 4.25" x 2.25" x 2.5"  
 Mounting Hole Spacing 1.375

### Range of Motion

Elevation: 100°  
 Pan: 180°  
 Speed: >200° per second

### E/O Sensor

NTSC Composite Video Output  
 1/4" Inter-line type color CCD  
 Operating Voltage: 5v DC  
 Auto White Balance  
 Operating Temp: -5° to 45°c  
 Lens Options: 3, 4, 6, 8, 12mm

### Thermal Sensor

NTSC Composite Video Output  
 9 Hz Thermal Image Refresh Rate (ITAR Compliant)  
 Operating Voltage: 3.5 to 5v DC (No more than 5v)  
 80x60 pixel Thermal resolution  
 Automatic temperature gain control  
 Lens Options: 25° or 50° FOV  
 Radiometric Output Optional on 25°

### Thermal control wire function

The control wire accepts 3-5V digital signal and acts like the MODE button on the back of the camera.  
 Momentary inputs will change through the color options and radiometric settings.  
 An input held for ~5 seconds will command the sensor to do a Flat Field Correction.  
 A flat object that is at a stable uniform temperature should be held in front of the lens while the calibration is in process.

### Wiring

Pan: Standard PWM	E/O:
Red: 5v	Red: 5v
Black: Ground	Black: Ground
Yellow: Signal	Yellow: Video
Tilt: Standard PWM	White: Video Ground
Red: 5v	I/R:
Black: Ground	Red: 3.5 to 5v
Yellow: Signal	Black: Ground
	Yellow: Signal
	White: Control

