


# Light Weight Stabilized Gimbal Camera

# SR-Z100

## ■ Main Feature

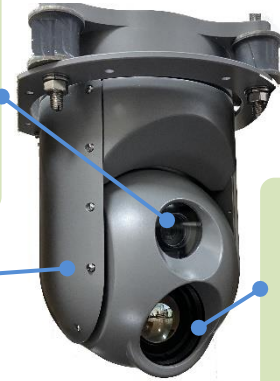
- Ultra Light for UAV Application
- Full HD Color Camera
- Thermal Imaging Camera Optional
- MEMS Gyro Stabilization
- Image Stabilization Software
- IPx5, Harsh Environment
- Auto Tracker (Option)

• HD Color Camera  
- Full HD Color Camera  
- 30x Optical Zoom  
- Digital Zoom




Wide      Narrow

• Gyro Motion Stabilization  
• BIT (Built In Test)  
• GPS & Digital Compass

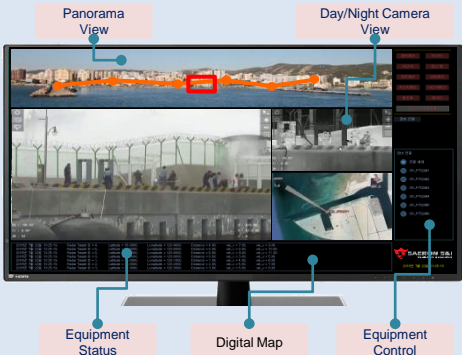


• Thermal Camera  
- Various Lens Selectable  
- Digital Zoom



Thermal Image

### Operation Software




Panorama View      Day/Night Camera View

Equipment Status      Digital Map      Equipment Control

### Auto Tracking/Radar Interlocking

Auto Tracking Feature for UAV and Boat



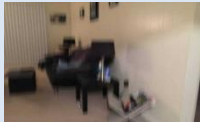
Mounted on UAV

### Full Motion Stabilization


Applied on Korean Unmanned Surface Vehicle




### Onboard Video Processor




Digital Image Stabilizer



Anti Fog



On Screen Display



Video Fusion

## ■ Application



Drone



UAV



Light Helicopter

# Stabilized Gimbal Thermal Camera **SR-Z100**

| ITEM                   | SR-Z100 EOIR                                  | SR-Z100 EOIRLRF                                |  |
|------------------------|---|--|--|
| Thermal Camera*        | Spectral Range:                               | Uncooled, 8 to 14 $\mu\text{m}$                | Uncooled, 8 to 14 $\mu\text{m}$                |
|                        | Resolution:                                   | 640 x 480                                      | 640 x 480                                      |
|                        | Focal Length:                                 | 25mm<br>(18, 35mm Option)                      | 25mm<br>(18mm Option)                          |
|                        | F Number:                                     | f/1.2  | f/1.2  |
|                        | Field of View:                                | 18°<br>(24° for 18mm<br>12.5° for 35mm)        | 18°<br>(24° for 18mm)                          |
|                        | Digital Zoom:                                 | 1x to 4x Digital Zoom                          | 1x to 4x Digital Zoom                          |
|                        | Pixel Pitch:                                  | 12 $\mu\text{m}$                               | 12 $\mu\text{m}$                               |
|                        | NETD:   | $\leq 50$ mK                                   | $\leq 50$ mK                                   |
|                        | Video Format:                                 | NTSC/PAL                                       | NTSC/PAL                                       |
|                        | Frame Rate:                                   | 60 Hz (30 fps)                                 | 60 Hz (30 fps)                                 |
|                        | Focus System:                                 | Fixed Focus                                    | Fixed Focus                                    |
|                        | Color Camera<br>(Full HD CMOS<br>Zoom Camera) | Sensor Type                                    | 1/2.8 inch CMOS                                |
| Image Resolution       |   | 1920(H) x 1080P(V),<br>1280 X 960, 1280 X 720P | 1920(H) x 1080P(V),<br>1280 X 960, 1280 X 720P |
| Focal length           |   | 10x Optical zoom<br>16x Digital Zoom           | 10x Optical zoom<br>16x Digital Zoom           |
| Laser Ranger<br>Finder | Wavelength                                    | N/A  | 1550 nm  |
|                        | Detection Range                               | N/A  | NATO 1.7km (Max 3km)                           |
|                        | Accuracy                                      | N/A  | 1 ~ 1.5m                                       |
| Gimbal                 | Diameter                                      | 110 mm   | 110 mm   |
|                        | Height (Above Deck):                          | 170 mm   | 170 mm   |
|                        | Weight:                                       | < 1.3 kg                                       | < 1.5 kg                                       |
|                        | Pan Range :<br>Tilt Range :                   | 360° continuous<br>-30° ~ +90°                 |  |
|                        | Max Speed:                                    | Pan : 60°/s, Tilt : 30°/s                      |  |
|                        | Power Requirement:                            | 12~34 VDC, 30 W or less                        |  |
|                        | Operating Temperature:                        | -30°C to +55°C                                 |  |
|                        | Environmental Rating:                         | IPx5   |  |
| Gyro:                  | 2 Axis Gyro Stabilization System              |  |  |

\* Thermal Camera may be replaceable with various focal length

\*\* Specification may be updated without notice