

## **SPY007 Color Low light Night Vision**



Color low light night vision evidence-collection system is a newly developed equipment that can conduct full color full HD video in the state of low light at night.

The system is composed of very low illumination starlight level (color minimum illumination up to 0.00001lux) digital full HD color camera, 7-inch 1080 p IPS LCD screen, SSD video playback all-in-one components, portable integrated design, built-in high density lithium battery pack (normal use time more than 6 hours) and provide large capacity spare battery to meet long work; can shoot real color motion picture in extremely dark scenes, professional photography large aperture 100-400mm zoom lens,

This system can be applied not only to full HD full color picture collection in night low-light environment, but also well in the bright light during the day, with a wide dynamic range; it can be widely applied to long-range full HD video forensics in special environment of public security, fire protection and environmental protection departments.

### **Specification:**

#### **A. Camera**

1. Dimensions of the camera: 430mm 230mm 154mm
2. Weight: 5.4 KG
3. Hard disk capacity: the capacity is 1TB solid state disk.
4. Day and night mode: The camera has both color and black and white working modes.
5. USB power output interface: The camera has a USB power output interface.
6. Storage time display : The camera supports the display of video storage in the current coding format on the main screen.
7. Waveform monitoring : the camera supports viewing the brightness waveform, RGB waveform and vector waveform, and supports setting the waveform display size, transparency and brightness, etc.
8. Auxiliary monitoring: the camera has auxiliary monitoring functions such as image peak focus, zebra print, false color and single channel blue.
9. Picture quality adjustment: The camera supports the remote control to set gain, frame accumulation, brightness, sharpness, Gamma correction and width dynamic and other functions, switch color, black and white, starlight and other modes, and open the fog, backlight, homogenization, shadow, image amplification and other functions.
10. Date and time setting : the camera can set the date and time.
11. Power display : the top of the camera has the battery surplus power display.
12. Display screen: A 7-inch touch display screen.
13. Screen resolution: 1,920 x 1200
14. Peak luminance: 2,000 nits / cd / m<sup>2</sup>

15. Video recording : with video recording .
16. Video file format: The MOV video format, resolution: 1920x1080, maximum frame rate: 60 fps.
17. Video status indication: the red prompt frame appears around the display screen when the camera starts the recording of videos.
18. Playback : The camera supports the playback of the stored video.
19. File naming: The camera supports setting the video scene name and the stored file name.
20. Smart Tag : The camera supports tagging the recorded or replayed video.
21. Screen : The camera supports closing the screen separately.
22. Screen locking function: the camera supports locking the screen to avoid wrong operation.
23. Screen flip function: the camera supports a 180° flip screen.
24. Encoding format setting function: Support for video recording in the following encoding format:  
HDMI/SDI (8/10-Bit 4:2:2/4:2:0 YCC)  
8K Raw: 30    4K Raw: 120    DCI 4K: 60  
UHD 4K: 60    DCI 2K: 60    1080p: 120  
1080i: 60/50    720p: 60
25. Battery life: When the laser light is off, the built-in battery supports the camera to work continuously for > 5h.
26. Back up battery capacity: The voltage of the backup battery is 11.1V and the capacity is 19.2Ah.
27. Low-temperature test (working state): 5°C and 2h.
28. High temperature test (working condition): 40°C, 2h.

## **2. Lens specification:**

1. Lens size: 120.4x268.9mm
2. Lens zoom : the lens of the camera supports 100mm~400mm zoom.
3. Lens focus : the camera has the manual focus function.

4. Maximum lens aperture: F4.5-6.3
5. Lens minimum aperture: F22-32

### **3、 Working distance environment:**

1. Daytime environment: 800-900 meters to identify acquaintances;
2. Night starlight (with street lights) environment: 300-400 meters to identify the person and the license plate number;
3. All-black environment (equipped with laser fill light): 300-400m meters to identify acquaintances



### **4. Laser illumination (optional):**

1. Dimension of laser illuminator: 160mm 62mm 100mm
2. Weight of laser illuminator: 0.5 KG
3. Band: 850  $\pm$  10nm
4. Lighting Angle: 2.0° (far Angle)  $\sim$ 70° (near Angle) continuously adjustable
5. Dification time: 2 seconds (far-near)

6. Light output power:  $3.8 \pm 0.3\text{W}$
7. Standard operating temperature:  $-35^{\circ}\text{C} \sim +70^{\circ}\text{C}$
8. Power consumption of the whole machine: 17W
9. Laser safety class: Class 3B (FDA, IEC)
10. Operating voltage:  $\text{DC}12\text{V} \pm 10\%$
11. Laser position adjustment function: laser light supports fine tuning upper and lower height and left and right Angle.
12. Laser spot regulation: laser light filling can adjust the laser spot size through zoom.