

Orders to record

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Product introduction

RB100D infrared thermal imager is a range of small and medium-sized implement round-the-clock monitoring of infrared thermal imager, day and night. The monitoring instrument collection of the uncooled infrared thermal imager, embedded DVR cameras to take high resolution, GPS, electronic compass, and can be applied to different areas of security surveillance, such as public security system, border security, armed police observation of coastal defense command



Main features:

- 1, the high sensitivity to detect target detection;
- 2, on time less than 5 seconds;
- 3, the use of the third generation of uncooled infrared thermal imaging detector;
- 4, the operation is simple, durable and reliable;

Product components



14.8V The lithium battery



The charger



Power/Video/RS232 cable



AC The power supply



Special instrument box



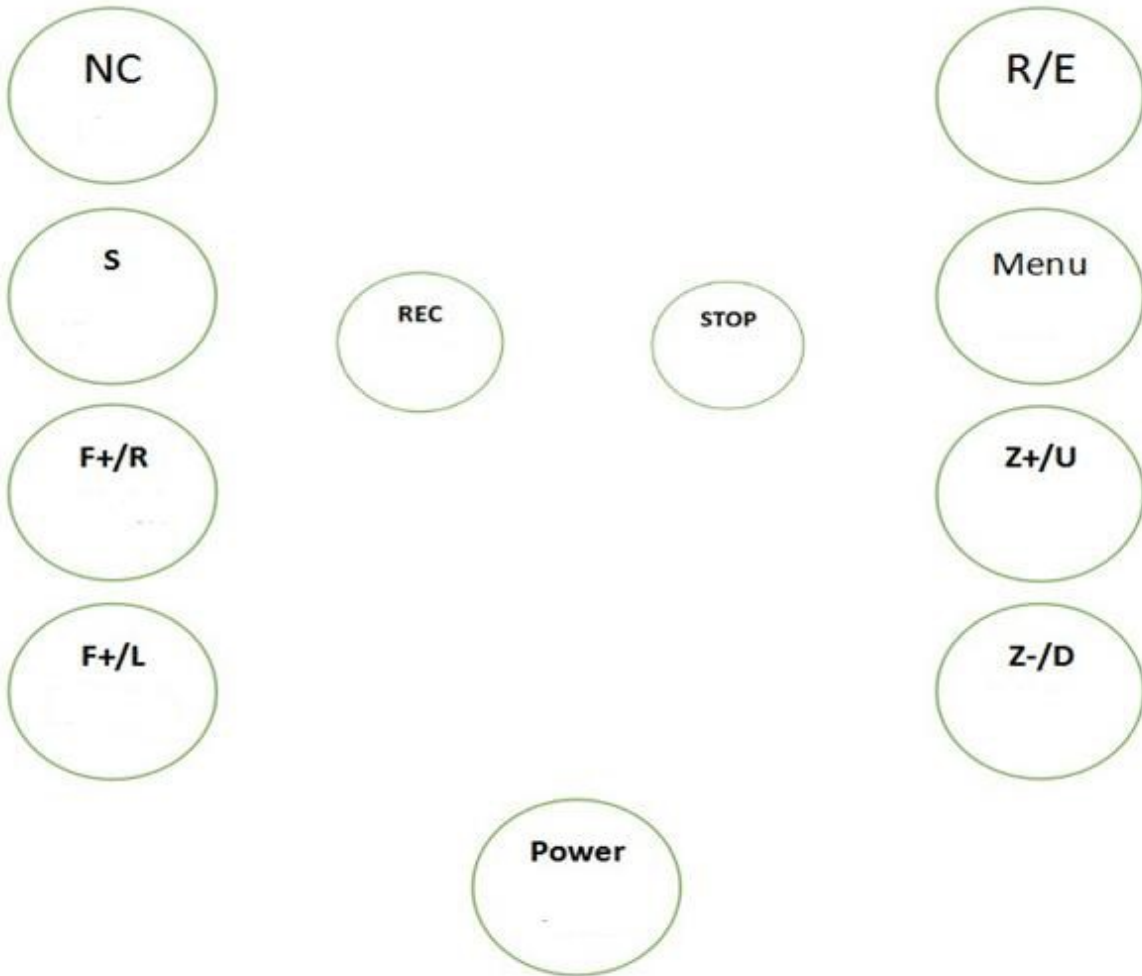


Packing diagram

| Model | RB100D | RB100H |
|--------------------|--------------------------|--------------|
| Detector | | |
| Detector | Uncooled Micro-bolometer | FPA |
| Spectral Range | 8-14 μ m | |
| Pixels | 384X288 | 640X480 |
| FOV | 4.2° x5.5° | 6.22° x4.67° |
| Pitch | 17 μ m | |
| NETD | <60mk | |
| Optics | | |
| Focus Type | Manual | |
| Lens | 100mm | |
| F# | 1.4 | |
| Focus range | 5m to ∞ | |
| Image Presentation | | |
| Video Output | PAL | |

| | | |
|--------------------------|--|-------|
| Frame Frequency | 50HZ | |
| Image Color | White Hot,Black Hot | |
| Integrated Display | OLED 600×800 | |
| Visible light | | |
| Wide FOV | 61.22° x47.16° | |
| Tele FOV | 1.47° x1.10° | |
| Optical zoom | 43X | |
| Resolution | 600 TV line | |
| GPS、（compass）、DVR | Can be added | |
| Interfaces | | |
| Video Output/Power | Composite video output/power input/RS232Serial | |
| Power System | | |
| Power Supply | 110/220VAC to 15V | |
| Battery Type | ,14.8V, Lit-ion14.8V | |
| Power Dissipation | DVR Open DVR | <10 W |
| | DVR , Without DVR | <3 W |
| Battery Operating Time | 4hours DVR（Without DVR） | |
| Environmental Parameters | | |
| Operating Temperature | -30℃~+55℃ | |
| Storage Temperature | -40℃~+65℃ | |
| Physical Characteristics | | |
| Color | Black | |
| Size | 265*110*198mm | |
| Weight | Without Battery less than 2KG | |

keystrokes



Power:

Hold down this button for 3 seconds to turn on the device. Once the device is turned on, you can turn it off by holding this button for 3 seconds.

Menu:

DAY CAMERA:

- This button acts as “menu” command. Once in a menu, it acts as “back” and “exit” command.

IR CAMERA:

- This button acts as “menu” command. Once in menu, pressing this button highlights the next item. In order to save the current settings, user should press this button several times until the menu bar disappears.

R/E:

DAY CAMERA:

- This button acts as “Enter” command in menu.

IR CAMERA:

- This button acts as “Reticle” command and it brings the reticle menu on screen. For navigating within reticle menu, operator can use “Menu”, “Z+/U” and “Z-/D” buttons

Z+/U:

DAY CAMERA:

- If user is not in menu, this button acts as “positive zoom” command.
- If user is in menu, this button acts as “Up” command for navigation.

IR CAMERA:

- If user is not in menu, this button has no function.
- If user is in menu, this button acts as “Up” command for increasing values or applying a menu item.

Z-/D:

DAY CAMERA:

- If user is not in menu, this button acts as “negative zoom” command.
- If user is in menu, this button acts as “Down” command for navigation.

IR CAMERA:

- If user is not in menu, this button has no function.
- If user is in menu, this button acts as “Down” command for decreasing values or applying a menu item.

NC:

This button is not used in this version.

S:

- Video switch button: This buttons toggles between DAY and IR cameras.

F+/R:

DAY CAMERA:

- If user is not in menu, this button acts as “positive focus” command and it changes the amount of focus toward far objects.
- If user is in menu, this button acts as “Right” command for navigation.

IR CAMERA:

- This button acts as “positive focus” command and it changes the amount of focus toward far objects.
- ◦

F-/L:

DAY CAMERA:

- If user is not in menu, this button acts as “negative focus” command and it changes the amount of focus toward near objects.
- If user is in menu, this button acts as “Left” command for navigation.

IR CAMERA:

- This button acts as “negative focus” command and it changes the amount of focus toward near objects.

REC:

- This button acts as “DVR open” .

STOP:

- This button acts as “DVR stop” .

Matters needing attention

1. Don't put in the thermal imager under high radiation source, such as the sun, carbon dioxide laser, electric welding machine, Don't directly into the high, electricity.
2. Long-term preservation, please take out the battery.
3. Do not exceed the limit and instruments operation.
4. Instruments, transportation to ensure the battery out, this instrument has electrostatic sensitive photoelectric component must use special instrument box.
5. Any problems with this product, do not open the camera, just inform the customer service.
6. The following questions will be null and void guarantee:
 - any physical damage and obvious burning
 - try to open and repair the products

Instructions on care and maintenance products:

1. Can only use this product with power adapter and other otherwise it may damage the machine of the electronic board.
2. When using external power supply cable and the video cable, ensure the cable is not damaged, and close the camera and then disconnect it.
3. Clean optical surface with a soft dry cloth only.
4. Do not use chemical solvents such as alcohol, ether, acetone, such as optical surface. Minus reflection on the surface of the lens material, too much washing can damage the lens coating.
5. Please do not directly touch the lens.

Troubleshooting

returned to the factory for repair.

- ◆, ensure the battery is enough
- ◆, battery contact clean inside the box
- ◆, make sure the power adapter work