Monocular Thermal Infrared Imager

HAB

User Manual

HAB Digit Technologies Co.,Ltd

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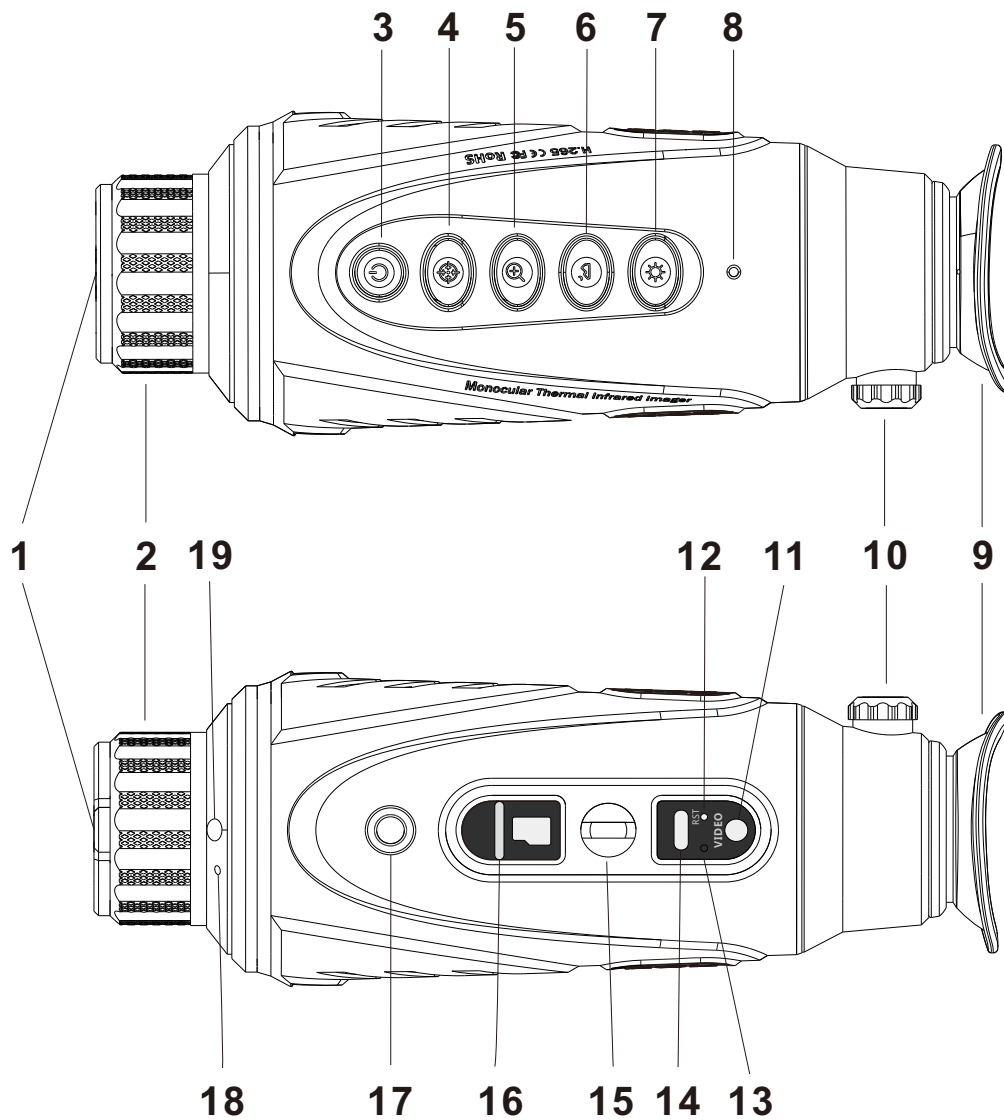
1. Lens cover
2. Infrared lens
3. Power key
4. Lazer key
5. Zoom key
6. Mode key
7. Light key
8. Power indrect led
9. Shading cover
10. Refraction adjust

11. Video output
12. Reset key
13. Charge indicate led
14. Charge port
15. Rope hole
16. Tf card slot
17. Bracket screw hole
18. Pickup head
19. Laser transmitter

1. POWER ON
Long time press the **POWER KEY** ⏻ as 4 seconds

2. POWER OFF
Long time press the **POWER KEY** ⏻ as 4 seconds

3. LENS FOCUS ADJUST
Turn round the part 2, you can adjust the focus as your want.

4. REFRACTION ADJUST
Turn round the part 10, you can adjust the refraction to fit your view.

5. RECORD VIDEO and SET
Plug the tf card in the part 16 as power off, long time press the **RECORD KEY** ✲ as 3 seconds, then imager start recording and display **REC** on top right corner , the next time, long time press the **RECORD KEY** ✲ as 3 seconds, then imager stop recording and display **REC STOP** on top right corner.Press the **RECORD KEY + LASER KEY(** ✲ + ✺ **),** for choice if record the OSD info, if have OSD will display on the top right corner.Press the **RECORD KEY + ZOOM KEY(** ✲ + ⊕ **),** for choice the video encoded stand H.264 or H.265, the result will display on the top right corner.

6. TAKE PHOTO
Short press the **RECORD KEY** ✲ less than 1 second mean take a photo .

7.CHARGE
Connect the charger from the charge port , the charge indicate led
is light up, the led went out when the battery is fulled.

8. TURN ON LASER & SET CROSSHAIRS
Press the **LASER KEY** ✺ , the laser power on , as display the cross division line on the screen, Press the **LASER KEY + ZOOM KEY** (✺ + ⊕)   at the same time, the CROSSHAIRS will switch.

9. ZOOM & HOT POINT
Press the **ZOOM KEY** ⊕ , the zoomed video will switch between the 1X,2X,4X,8X, press **ZOOM KEY** + **MODE KEY**(⊕ + ⛰),start hot point mode.

10. Color Palettes MODE
Press the **MODE KEY** ⛰ , the imager work mode will switch between the white hot, black hot, red hot, rainbow,fake blue.

11. SCREEN LIGHT ADJUST
Press the **RECORD KEY + MODE KEY(** ✲ + ⛰ **)** at the same time, the screen light will switch from 1 to 10.

6. RESET
Press the reset key by a needle.

TECHNICAL PARAMETER

Model	MII-S 15	MII-S 19	MII-S 25	MII-S 35	MII-S 50
Detector					
Detector Type	384×288 @ 12 µm, Vox				
Spectral	8µm ~ 14µm				
NETD	≤ 50mk				
Lens					
Focal Length	15mm/F1.2	19mm/F1.1	25mm/F1.1	35mm/F1.2	50mm/F1.2
Focusing	Fix Focus	Manual Focus			
FOV	25.0°×19.0°	19.0°×14.5°	15.4°×11.6°	11.1°×8.3°	7.8°×5.8°
Display					
Screen	720×540 , 0.4 inch, Color LCOS Display（Feel like watching 21 inch screen at 1 meter）				
Eyepiece	Monocular, Exit pupil ≥ 10mm, Adjustable diopter - 4 + ~2				
Magnification	1.1~4.8	1.5~5.6	1.7~6.8	2.3~9.2	3.3~13.2
Audio & Video					
Frame Rate	50Hz / 25fps				
Digital Zoom	1X~8X				
Color Palettes	White Hot, Black Hot, Red Hot, Rainbow, Fakeblue				
Video Record Standard	H.265 / H.264				
Audio codec	G.711				
Power Supply					
Battery Type	Internal Li-ion battery (2x18650, 6800mAh)				
Working Time	≥ 10 hours				
Interface					
USB	TYPE C (USB 2.0 standard) for charging(data tranmission only for manufactuer)				
Video Output	Analog video (PAL) BNC				
Memory Card	64 GB				
Environmental Characteristics					
Operating Temperature	-10℃ ~ 50℃				
Storage Temperature	-30℃ ~ 60℃				
Encapsulation	IP66，1-meter drop test				
Certificate	UN38.3 (Battery certificate), RoHS, CE, FCC				
Weight & Dimensions					
Weight	450g	475g	500g	515g	565g
Dimensions	190mm×68mm×71mm		200mm×68mm×71mm		220mm×68mm×71mm
Package Contents					
Standard	Power adapter,USB cable,64G Micro TF Card,TF Card reader,Lens cover,Wrist strap, Shoulder strap,Lining package,Quick Start Guide				
Optional	External screen and etc…				

Don't to look the sun directly through this imager

Keep away from high temperature and hot objects

Avoid using thermal imager when charging There is a risk of accidental damage

Take care to protect the lens, only use a soft glasses cloth to wipe