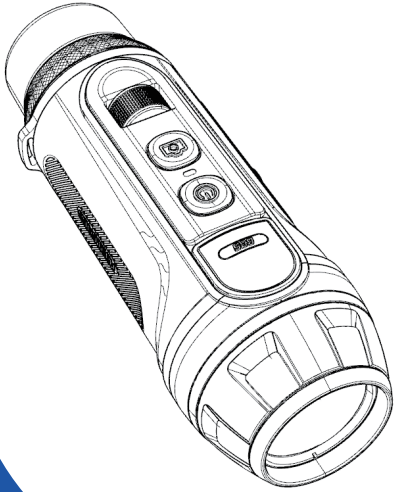
INSTRUCTION MANUAL

THERMAL IMAGING MONOCULAR

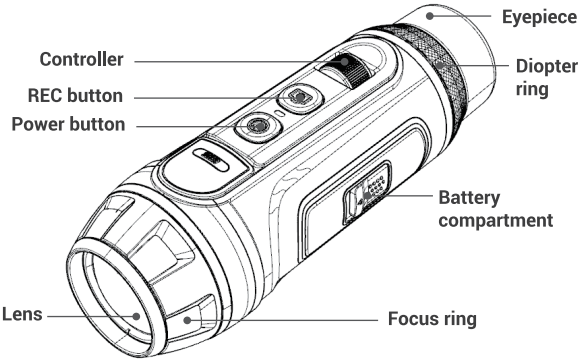


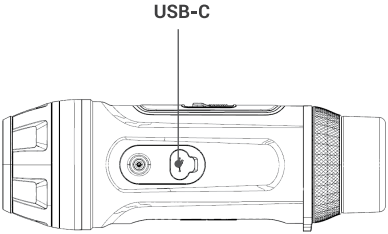
RoHS CE

Attention!

	The proper usage of the device is important for safe exploitation! Therefore, reading carefully the present manual!
	If the device was left in storage for a longer period of time, before exploitation check its functionality.
	Disassembling of the device is prohibited, except in authorized repairing centers.
	The external optical surfaces should be clean at all times. Touching the optical surfaces with bare hands is not recommended.
	Sand and sea water can damage the optical coatings!
	Do not point the device directly at the sun!
	Image performance is dependent on scenery and atmosphere conditions. Contrast in the same image may vary as a function of the time of day due to the effect of the sun. For example, at sunset objects will have absorbed different levels of heat resulting in greater temperature differences and better contrast.
	When left in storage for a longer period of time, batteries have to be removed and stored in polyethylene bags to prevent contact with metal. (It is recommended to recharge the batteries every two to three months)
	Condensation can cause fogging of the optical surfaces! Condensation occurs when the temperature or humidity changes as follows: · When moving the device from cold to warm place or vice versa · In places with high humidity When equalizing the temperature of the device with the environmental, the condensation disappears. Use the towel to remove moisture.
	Clean the lens surfaces with the lens cloth or with the napkin!

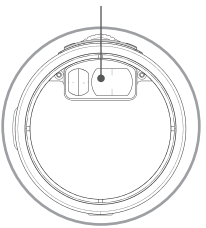
Appearance


Eyepiece
Controller
Diopter ring
REC button
Power button
Battery compartment
Lens
Focus ring


USB-C

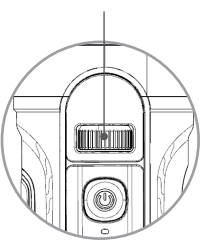
Laser in IR

(only available in Aquila LIIR series)



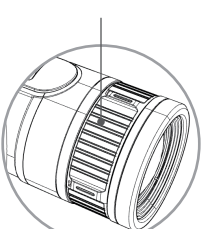
Focus ring

(only available in Aquila LIIR and Dual series)



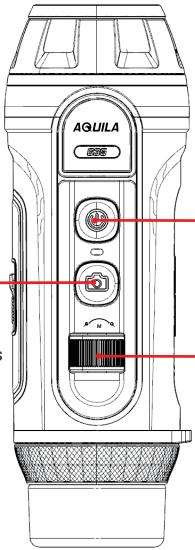
Dual FOV controller

(only available in Aquila Dual series)



⚠ ***NOTE***	All images used in this instruction manual are for illustrative purpose only. Actual product may vary due to product enhancement.（V.1.2）

Controls



Calibration

Standby mode

For LIIR series, long press 1.5s, then rotate right to enter standby mode.

Press any buttons to exit standby mode. If not operated, AQUILA will turn off.

For others, short press to enter standby mode.

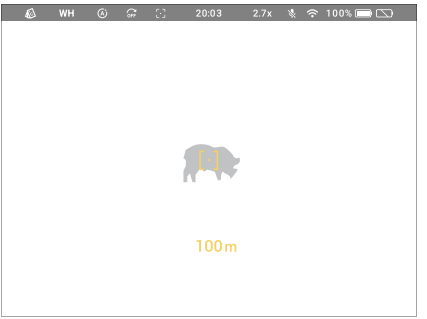
Take photo/video

Short press to take photos, long press to record videos.

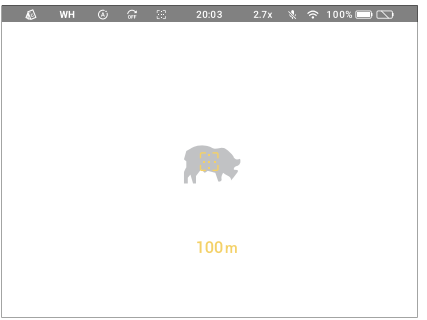
Laser rangefinder

(only available in Aquila LIIR series)

Short press ,then distance will be shown on the screen.



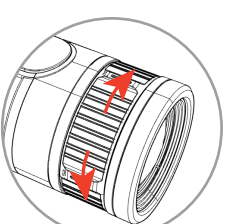
When in scan mode, aim to the target, and the relevant distance will show up.



Dual-field of view

(only available in Dual series)

Use a wide FOV (19/25mm) for detection and a narrow FOV (38/50mm) for identification. Seamlessly switch between these dual views in 2 steps: set focus once, then twist the Dual-FOV controller to change views without refocusing for continued sharp image quality.

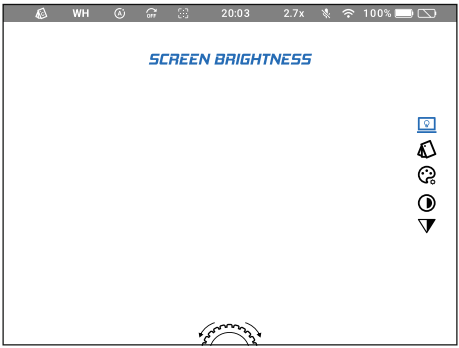


Status Display

The status bar is on the top of the display and shows information on the actual operating status of the AQUILA.

- **Tone adjustment**
- **Palettes**
- **Calibration mode**
- **Standby mode**
- **Rangefinder** (only available in Aquila LIIR series) /**Focal length** (only available in Dual series)
- **Real time**
- **Magnification**
- **Microphone**
- **WIFI**
- **Built-in battery level**
- **Built-in battery**
- **External battery**

Short press to enter the quick menu, long press to exit the quick menu.



Screen Brightness

Short press , then rotate to select the screen brightness from 1-5.

Short press to save and exit.

Tone Adjustment

Short press , then select the cold/warm mode.

Color Mode

Short press , then rotate to select the palettes.

Short press to save and exit.

Contrast

Short press , then rotate to select the contrast from 1-5.

Short press to save and exit.

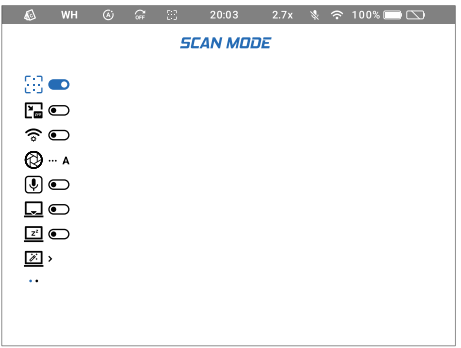
Sharpness

Short press , then rotate to select the sharpness from 1-5.

Short press to save and exit.

Main Menu

Long press to enter the main menu.



SCAN MODE

Short press to turn on/off scan mode.

PIP

Short press to turn on/off PIP.

WIFI

Short press to turn on/off WIFI.

Calibration Mode

Short press , then rotate to select the A, M, S.

Short press to save and exit.

A Automatic

M Manual

S Silent

Microphone

Short press to turn on/off microphone.

Pure Mode

Short press to turn on/off pure mode.

Auto Standby

Short press to turn on/off auto standby.
AQUILA enters auto standby mode after 2 minutes of inactivity

Defective Repair

Cover the objective lens and short press to perform defective pixel repair.

Unit

Short press to select meter or yard.

Language

Short press to select the language,
then short press to save and exit.

Device Info

It indicates the Model name, S/N, software version and hardware version.

Reset

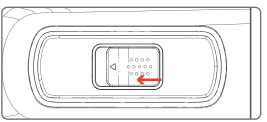
Short press to select No or Yes.

Power Supply

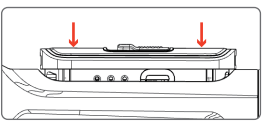
Removable battery

Please install the battery based on the positive and negative signs.
Replace the battery and close the compartment knob.

Open

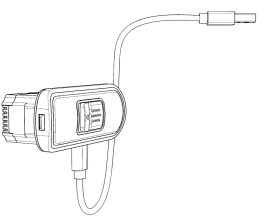


Close



Battery compartment

AQUILA battery compartment can function separately as a charger for 18500 batteries. However, please note that to charge, the battery compartment needs to be removed and connected via a USB-C cable. While charging the red light flashes, wher the battery is fully charged, the green light stays on.



Built-in battery

AQUILA is powered by a built-in rechargeable battery and a removable 18500 battery. When both type of battery are fully charged, AQUILA is powered by the removable battery. It will switch to built-in battery once the removable battery level is low. Replacing the external battery does not affect the operation of the AQUILA.

External power supply

External power can be supplied from an external source, such as a power bank.

Cable connection

Power supply /Charge built-in battery.

Storage and Transportation

- Before storing it, clean obligatory the device.
  (In case of moisture, dust or traces of dirt on its surface)
- Make sure that there are no traces of moisture, and the battery compartment is empty!
- It is also possible for a short period of time device to be stored in a suitable soft pack, bag or cartridge box.
- The premises in which the device is kept for long term have to be dry, enclosed, unheated and ventilated.
- During the storage should not be allowed exposure to aggressive environments, temperatures below -50°C and above +60°C, relative humidity greater than 80%, and prolonged periods of direct sunlight.
- Before each transportation, the product should be neatly packed in its original packaging (transport bag) and all other items and accessories should be carefully and steadily placed in the bag.
- You can ship the product with all types of transport at different distances and at altitude up to 12000m.

FCC Caution.

§15.19 Labelling requirements.
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

§15.21 Information to user.
Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

§15.105 Information to the user.
Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
-Reorient or relocate the receiving antenna.
-Increase the separation between the equipment and receiver.
-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
-Consult the dealer or an experienced radio/TV technician for help.

The device has been evaluated to meet general RF exposure requirement.