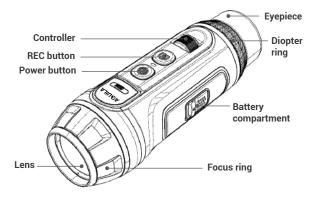
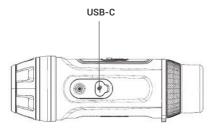


Attention!

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





Laser in IR

(only available in Aquila LIIR series)



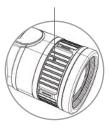
Focus ring

(only available in Aquila LIIR and Dual series)



Dual FOV controller

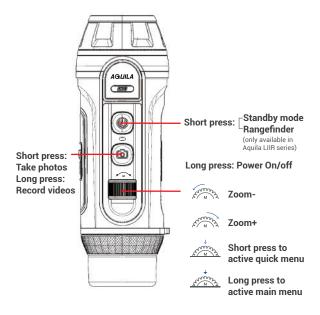
(only available in Aquila Dual series)





All images used in this instruction manual are for illustrative purpose only. Actual product may vary due to product enhancement. $\left(V.1.1\right)$

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 **0** to enter standby mode.

Take photo/video

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

Firmware update via APP

Easily keep your device at the forefront of technology with firmware updates directly through our dedicated app.

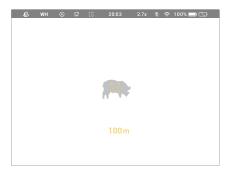


Laser rangefinder

(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.

Focus adjustment (70m)

(only available in Aquila LIIR series)

The AQUILA LIIR series feature a precise focusing adjustment with a fin lever. When the focus reaches the 70m (76yd) mark, it aligns with a ridge on the device's housing. This design allows for quick and accurate focusing, even without directly looking at the AQUILA.



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.

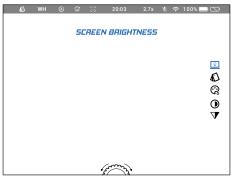


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The status bar is on the top of the display and shows information on the actual operating status of the AQUILA.

- 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 for to enter the quick menu, long press for to exit the quick menu.



Screen Brightness

Short press A then rotate to select the screen brightness from 1-5. Short press A to save and exit.



Tone Adjustment

Short press x then select the cold/warm mode.



Color Mode

Short press $A^{(m)}$, then rotate to select the palettes. Short press for to save and exit.



Contrast

Short press A_{m}^{c} , then rotate to select the contrast from 1-5. Short press A to save and exit.



Short press A^{mn}_{M} , then rotate to select the sharpness from 1-5. Short press Armin to save and exit.

Main Menu

Long press Kan to enter the main menu.

Ð	WH	٨	Ğ	23	20:03	2.7x	*	Ŷ	100%		
	SCAN MODE										
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SCAN MODE

Short press A to turn on/off scan mode.

M PIP

PIP

Short press



WIFI

Short press



Calibration Mode

Short press A , then rotate to select the A, M, S. Short press Arman to save and exit.



A Automatic



- Manual
- S Silent

🔍 Microphone

Short press Ato turn on/off microphone.

🖵 Pure Mode

Short press A to turn on/off pure mode.

Auto Standby

Short press Army 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 defective pixel repair.

UNIT

Unit

Short press Amato select meter or yard.

Language

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

(;) Device Info

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



Reset

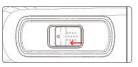
Short press Anna to select No or Yes.

Power Supply

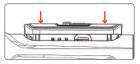
Removable battery

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

Open







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.

- 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.

Aquila Specification										
Model	Aquila 325	Aquila 335	Aquila 3D 19/38	Aquila 3D 25/50	Aquila 350LIIR					
Main Characteristics										
Detector			Uncooled Vox							
Resolution			384x288							
Frame rate			50HZ							
Pixel	12µm									
Spectral range	tral range 8-14µm									
IETD <25mK										
Optical Characteristics										
Objective lens	25mm	35mm	19mm/38mm	25mm/50mm	50mm					
Magnification	2.4x	3.3x	1.8x-3.7x	2.4x-4.8x	4.8x					
FOV(H×V), m @100m	18.4×13.8	13×9.9	12.1×9.1 / 24.3×18.2	9.2×6.9 / 18.4×13.8	9.2×6.9					
Close-up range			2m							
Dioptre adjustment			±5D							
Functions										
Smooth zoom	2.4x-10x	3.3x-13.8x	1.8x-7.5x / 3.7x-15.4x	2.4x-10x / 4.8x-20x	4.8x-20x					
Palettes			8							
Audio recording			YES							
Firmware update via APP			YES							
Photo/Video			YES							
Display										
Туре			OLED							
Resolution			1024x768							
External video			WIFI							
Built-in memory			32GB							
Power Supply										
Battery			Dual Battery							
External power supply			5V USB-C							
Operating time (at t=22*C)			10h							
Physical Characteristics										
Weight (without external battery)	≤540g	≤540g	≤570g	≤600g	≤560g					
Dimension	≤φ61x179mm	≤φ61x179mm	≤φ61x205mm	≤φ61x205mm	≤φ61x193mm					
Environmental Compatibility										
Ingress protection rating			IP67							
Operating temperature			-20°C~+50°C							
Storage temperature			-40°C~+70°C							
Laser Rangefinder (Only available	in Aquila 350LII	R and 650LIIR)	_							
Safety class for laser equipment according to IEC 60825-1:2014	/ 1									
Measuring range	/ 5-1200m									
Measurement accuracy			/		±1m					

	AquilaSpe	cification (640))							
Model	Aquila 635	Aquila 6D 19/38	Aquila 6D 25/50	Aqulia 650LIIR						
Main Characteristics	•			-						
Detector		Uncoole	ed Vox							
Resolution	640x512									
Frame rate		50HZ								
Pixel	12µm									
Spectral range	8-14µm									
NETD	<25mK									
Objective lens	35mm	19mm/38mm	25mm/50mm	50mm						
Magnification	1.9x	1.0x-2.0x	1.4x-2.7x	2.7x						
FOV(H×V), m @100m	22×17.5	20.2×16.2 / 40.4×32.3	30.7×24.6 / 15.35×12.3	15.35×12.3						
Close-up range		2n	n	-						
Dioptre adjustment		±51	D							
Functions	•									
Smooth zoom	1.9x-10x	1.0x-5.2x / 2.0x-10.4x	1.4x-7.3x / 2.7x-14x	2.7x-14x						
Palettes	8									
Audio recording		YE	s							
Firmware update via APP		YE	s							
Photo/Video	YES									
Display	•									
Туре		OLE	Ð							
Resolution	1024x768									
External video	WIFI									
Built-in memory		326	iВ							
Power Supply	•									
Battery		Dual Ba	attery							
External power supply		5V US	B-C							
Operating time (at t=22°C)		10	h							
Physical Characteristics	•									
Weight (without external battery)	≤540g ≤570g ≤600g		≤600g	≤560g						
Dimension	≤φ61x179mm ≤φ61x205mm ≤φ61x205mm		≤φ61x205mm	≤φ61x193mm						
Environmental Compatibility										
Ingress protection rating		IP6	7							
Operating temperature		-20°C~	+50°C							
Storage temperature		-40°C~	+70°C							
Laser Rangefinder (Only available in	Aquila 350LIIR and 65	OLIIR)								
Safety class for laser equipment according to IEC 60825-1:2014	/ 1									
Measuring range	/ 5-1200m									
Measurement accuracy	/ ±1m									



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