



**ARES LRF 2.0** Series  
Thermal Imaging

## Thermal Tube Scope Ares650L 2.0

## Technical Specifications



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# Ares650L 2.0

## Key Features

- 640\*512 thermal resolution, NETD $\leq$ 18mK;
- 5 colors and 7 reticle choices for reticle options;
- Freeze and zoom of zeroing improve shooting accuracy.;
- Built-in laser rangefinder, accurately measure the distance up to 1,000m;
- Self-learning image calibration;
- Ultra-long battery life reaches to 16hrs;
- 5 zeroing profiles meet various needs;
- RAV function allows recording every terrific shot;
- Rotary knob design;
- Support video recording and snapshot, built-in memory chip up to 64GB;

## Applications

- Night hunting
- Observation

# Specifications



| Model           | ARES650L 2.0                      |
|-----------------|-----------------------------------|
| Microbolometer  |                                   |
| Type            | Uncooled                          |
| Resolution      | 640x512                           |
| Pixel pitch     | 12μm                              |
| NETD            | ≤18mK                             |
| Spectral range  | 8-14μm                            |
| Frame rate      | 50HZ                              |
| Detection Range | 2600m                             |
| Optics          |                                   |
| Objective lens  | 50mm, F1.0                        |
| Field of view   | 8.8° x 7.0°                       |
| m@100m          | 15.4x12.3                         |
| Magnification   | 2.8X                              |
| Digital zoom    | 1.0-4.0X smooth & rapid zoom      |
| Eye relief      | 50mm                              |
| Exit pupil      | 6mm                               |
| Diopter         | ±5D                               |
| Aiming Reticle  |                                   |
| Reticle         | 7                                 |
| Reticle color   | 5, Black. white, red, green, blue |
| Display         |                                   |
| Type            | AMOLED                            |
| Resolution      | 1024x768                          |
| Display size    | 0.39 inch                         |
| Color palette   | 6                                 |

| Function                           |  |
|------------------------------------|--|
| Max. recoil power on rifled weapon | 6000J  |
| Mounting brackets on weapon        | Standard 30mm rings  |
| RAV                                | Yes  |
| Audio Recording                    | Yes  |
| Auto zeroing                       | Yes  |
| Manual zeroing                     | Yes  |
| Zeroing profiles                   | 5  |
| Freeze Zeroing                     | Yes  |
| Picture-in-picture                 | Yes  |
| Laser ranging                      | 1.8mrad@1000m  |
| Ballistic Calculator               | Yes  |
| Image calibration                  | Manual/Auto  |
| Video Recorder                     |  |
| Phone/video playback               | Yes  |
| Inbuilt memory                     | 64GB   |
| Interface                          |  |
| Type C                             | Data transfer  |
| Hotspot                            | Yes  |
| Battery                            |  |
| Battery type                       | Replaceable, 1*18650 or 18500 battery, 1*18650 inbuilt battery |
| Battery reverse connection         | Yes  |
| Battery life                       | 16h  |
| Environment                        |  |
| Operating temperature              | -20- +50°C   |
| IP rating                          | IP67   |
| Weight, g                          | 918  |
| Size, mm                           | 404.8*92.2*84.9  |
| Accessories                        |  |
| External cable                     | USB data cable   |
| Other accessory                    | 2x standard 30mm rings, eyeshade and etc.                      |

# Accessories



Scope (x1)



18650 battery cap (x1)



USB cable (x1)



Eyeshade (x1)



18500 battery cap (x1)



30mm tube clip (x2)



Lithium battery (x2)



Charger(X1)



Lens cloth (x1)

# Dimension

Unit: mm

