

ADDER

THERMAL IMAGING RIFLESCOPE

AGM Adder is the thermal imaging scopes developed for 24 hours operation under any weather and environmental conditions. Two objective lens options allow the customer to choose perfect unit for your needs where 35mm lens designed for medium range shooting, while the 50mm lens model will be great for long range missions.

Riflescope has 384x288 or 640x512 high-sensitivity thermal detector and 1024x768 OLED monitor, which provides clear image under harsh environment conditions like darkness, fog, smoke, dust, rain, snow, wood, camouflage, etc. The scope is mainly applied to scenarios such as patrolling, and hunting, etc.

The scope is equipped with unique dual power system. Two built-in 18650 rechargeable battery with one CR123A replaceable Lithium battery provide up to 15 hours of continuous operation. The device has fast 64GB EMMC storage for on-board video recording and image capturing. Automatic shot video recording function allows you not to worry about having to start recording manually each time. Wi-Fi module for live video streaming and video/images recording via application are also available. AGM Adder scope has the ability to work in conjunction with an external laser rangefinder. Data transfer between the optional rangefinder and the scope is carried out via Bluetooth connection.

The Adder can be mounted to the weapon using standard scope mounts for 30mm tubes.

- 384x288 or 640x512 thermal resolution
- 12um High Sensitivity Thermal Detector
- Fast 50 Hz imaging
- 1024x768 resolution OLED display
- 1x, 2x, 4x digital zoom
- On-Board Video and Audio Recording
- Automatic shot video recording function (ASVR)
- Wi-Fi Data Transmission
- Fast 64GB EMMC Built-in Storage
- Various reticle types and colors
- Adjustable color palettes
- Standby mode
- Waterproof, shockproof
- Dual power system
- Up to 15 hours continuous working
- External power supply capability
- Limited 3-year warranty



Regulatory Information

FCC Information

Please take attention that changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC compliance: 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.

FCC Conditions

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.
2. This device must accept any interference received, including interference that may cause undesired operation.

EU Conformity Statement



This product and - if applicable - the supplied accessories too are marked with "CE" and comply therefore with the applicable harmonized European standards listed under the EMC Directive 2014/30/EU, the RoHS Directive 2011/65/EU



2012/19/EU (WEEE directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points. For more information see: www.recyclethis.info



2006/66/EC (battery directive): This product contains a battery that cannot be disposed of as unsorted municipal waste in the European Union. See the product documentation for specific battery information. The battery is marked with this symbol, which may include lettering to indicate cadmium (Cd), lead (Pb), or mercury (Hg). For proper recycling, return the battery to your supplier or to a designated collection point. For more information see: www.recyclethis.info

Industry Canada ICES-003 Compliance

This device meets the CAN ICES-3 (B)/NMB-3(B) standards requirements. This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

- (1) this device may not cause interference, and
- (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain

approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

Safety Instruction

These instructions are intended to ensure that user can use the product correctly to avoid danger or property loss.

Laws and Regulations

- Use of the product must be in strict compliance with the local electrical safety regulations.

Transportation

- Keep the device in original or similar packaging while transporting it.
- Keep all wrappers after unpacking them for future use. In case of any failure occurred, you need to return the device to the factory with the original wrapper. Transportation without the original wrapper may result in damage on the device and the company shall not take any responsibilities.
- Do not drop the product or subject it to physical shock. Keep the device away from magnetic interference.

Power Supply

- The input voltage should meet the Limited Power Source (5 VDC, 2 A) according to the IEC61010-1 standard. Please refer to technical specifications for detailed information.
- Make sure the plug is properly connected to the power socket.
- DO NOT connect multiple devices to one power adapter, to avoid overheating or fire hazards caused by overload.

Battery

- Improper use or replacement of the battery may result in explosion

hazard. Replace with the same or equivalent type only. Dispose of used batteries in conformance with the instructions provided by the battery manufacturer.

- For long-term storage of the battery, make sure it is fully charged every half year to ensure the battery quality. Otherwise, damage may occur.
- Do not charge other battery types with the supplied charger. Confirm there is no flammable material within 2 m of the charger during charging.

Maintenance

- If the product does not work properly, please contact your dealer or the nearest service center. We shall not assume any responsibility for problems caused by unauthorized repair or maintenance.
- Wipe the device gently with a clean cloth and a small quantity of ethanol, if necessary.
- If the equipment is used in a manner not specified by the manufacturer, the protection provided by the device may be impaired.

Using Environment

- Make sure the running environment meets the requirement of the device. The operating temperature shall be – 20 °C to 55 °C (- 4 °F to 131 °F), and humidity shall be 5% to 95%.
- Place the device in a dry and well-ventilated environment.
- DO NOT expose the device to high electromagnetic radiation or dusty environments.
- DO NOT aim the lens at the sun or any other bright light.
- When any laser equipment is in use, make sure that the device lens is not exposed to the laser beam, or it may burn out.

SPECIFICATIONS

	Adder TS35-384	Adder TS50-384	Adder TS35-640	Adder TS50-640
Resolution	384 x 288	384 x 288	640 x 512	640 x 512
Detector	12µm, Uncooled, 50 Hz	12µm, Uncooled, 50 Hz	12µm, Uncooled, 50 Hz	12µm, Uncooled, 50 Hz
Lens System	35mm; F/1.0	50 mm; F/1.0	35 mm; F/1.0	50 mm; F/1.0
Magnification	3x - 12x	4x - 16x	2x - 8x	2.5x - 10x
Field of View	7.5° x 5.6°	5.2° x 3.9°	12.3° x 9.9°	8.7° x 7.0°
Digital Zoom	1x, 2x, 4x	1x, 2x, 4x	1x, 2x, 4x	1x, 2x, 4x
Eye Relief	≥ 60 mm	≥ 60 mm	≥ 60 mm	≥ 60 mm
Display	1024x768, 50 Hz OLED	1024x768, 50 Hz OLED	1024x768, 50 Hz OLED	1024x768, 50 Hz OLED
Reticle	5 types, 4 colors, on/off	5 types, 4 colors, on/off	5 types, 4 colors, on/off	5 types, 4 colors, on/off
Boresight Adjustment	Digital Controlled	Digital Controlled	Digital Controlled	Digital Controlled
Boresight Increment	0.13 mil / 0.44 MOA	0.09 mil / 0.31 MOA	0.22 mil / 0.73 MOA	0.15 mil / 0.51 MOA
Distance Measurement	Yes (Stadiametric), Optional Laser Rangefinder	Yes (Stadiametric), Optional Laser Rangefinder	Yes (Stadiametric), Optional Laser Rangefinder	Yes (Stadiametric), Optional Laser Rangefinder
Palettes	Black Hot, White Hot, Red Hot, Fusion	Black Hot, White Hot, Red Hot, Fusion	Black Hot, White Hot, Red Hot, Fusion	Black Hot, White Hot, Red Hot, Fusion
Scene Mode	Jungle, Recognition	Jungle, Recognition	Jungle, Recognition	Jungle, Recognition
Picture In Picture Mode (PIP)	Yes (2x Zoom)	Yes (2x Zoom)	Yes (2x Zoom)	Yes (2x Zoom)
Wi-Fi Hotspot	Yes	Yes	Yes	Yes
Bluetooth	Yes	Yes	Yes	Yes
Standby Mode	Yes	Yes	Yes	Yes
Video Recording	Yes	Yes	Yes	Yes
Picture Snapshot	Yes	Yes	Yes	Yes
CVBS Output	Yes (via USB)	Yes (via USB)	Yes (via USB)	Yes (via USB)
Defective Pixels Correction (DPC)	Yes	Yes	Yes	Yes
Uniformity Correction	Auto, Manual, External Correction	Auto, Manual, External Correction	Auto, Manual, External Correction	Auto, Manual, External Correction
Storage	Built-in EMMC (64 GB)	Built-in EMMC (64 GB)	Built-in EMMC (64 GB)	Built-in EMMC (64 GB)
Battery Type	Two 18650 Rechargeable Batteries (built-in) and one CR123 Battery	Two 18650 Rechargeable Batteries (built-in) and one CR123 Battery	Two 18650 Rechargeable Batteries (built-in) and one CR123 Battery	Two 18650 Rechargeable Batteries (built-in) and one CR123 Battery
Battery Life (Operating, 20°C)	Up to 15 hr	Up to 15 hr	Up to 12 hr	Up to 12 hr
External Power Supply	5 VDC/2 A, USB Type-C interface	5 VDC/2 A, USB Type-C interface	5 VDC/2 A, USB Type-C interface	5 VDC/2 A, USB Type-C interface
Operating Temperature Range	-30°C to +55°C (-22°F to +131°F)	-30°C to +55°C (-22°F to +131°F)	-30°C to +55°C (-22°F to +131°F)	-30°C to +55°C (-22°F to +131°F)
Degree of Protection	IP67	IP67	IP67	IP67
Weight (w/o mount)	1,0 kg (2.2 lb)	1,03 kg (2.27 lb)	1,0 kg (2.2 lb)	1,03 kg (2.27 lb)
Overall Dimensions (w/o mount)	400 x 77.1x 74.5 mm (15.7 x 3.0 x 2.9 in)	411 x 77.1x 74.5 mm (16.2 x 3.0 x 2.9 in)	400 x 77.1x 74.5 mm (15.7 x 3.0 x 2.9 in)	411 x 77.1x 74.5 mm (16.2 x 3.0 x 2.9 in)

Specifications are subject to change without notice.



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