ATN Mars 5 XD Series
ATN Mars 5 XD LRF Series

SMART THERMAL RIFLE SCOPES

MANUAL

MARS 5 XD / MARS 5 XD LRF USER'S GUIDE

ATN EUROPE LTD

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SMART THERMAL RIFLE SCOPES

MANUAL

EN

* For Mars 5 XD LRF models only.

CAUTION!

THIS PRODUCT CONTAINS NATURAL RUBBER LATEX, WHICH MAY CAUSE ALLERGIC REACTIONS

EU Conformity Statement

CE

This product and, if applicable, the supplied accessories are marked with “CE” and comply therefore with the applicable harmonized European standards listed under the EMC Directive 2014/30/EU.

The information in this manual is furnished for informational use only, is subject to change without notice, is not to be construed as a commitment by ATN Europe LTD. ATN Europe LTD assumes no responsibility or liability for any errors or inaccuracies that may appear in this book.
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FEATURES

- XTREME DEFINITION SENSOR
- RECORD HD VIDEO
- DUAL STREAM VIDEO
- SMOOTH ZOOM
- E-COMPASS
- WIFI
- COLOR MODE
- COMFORTABLE EYE RELIEF
- CUSTOM RETICLES
- BALLISTIC CALCULATOR
- ONE SHOT ZERO
- RAV
- PROFILE MANAGER
- ULTRA LOW POWER CONSUMPTION

APPLICATION

As an innovative industry leader, breakthroughs are what we do. ATN delivers on its promise of cutting-edge thermal scope technology with the new Mars 5 XD.

ATN's Gen 5 Thermal Scope is bound to shake up the Electro-Optics industry with its smaller profile, feature-rich, first-to-market 1280x1024, 60 Hz 12 micron, ultrasensitive HD thermal sensor.

A new Quad Core processor with enhanced sensors give Mars 5 stunning image quality in both night and day. Precision is the name of the game in weapon scopes and what you see through a thermal scope matters.

Mountable on standard 30 mm rings Mars 5 now sports a smaller and smoother profile for optimal design and comfort.

Mars scopes have always been feature rich but Gen 5 has new features to make anyone feel like a kid again. ATN's exclusive Custom Reticle Builder will let your creative side have a real field day.

For those who must make their shots at any distance — LRF has been built in on the side in the smallest form factor ever. Giving you unprecedented precision at up 1000 yards with the internal Ballistic Calculator.*

One Shot Zero, Profile Manager, Ballistic calculator, Long Battery Life, Smart Mil-Dot Reticle, RAV (automatic recording of your "kill shot"), Dual Stream Video, IOS & Android Aps, Radar (for group coordinated action), and many more Features make Gen 5 Mars a true marvel of science.

* For LRF models only.

SPECIFICATIONS

Model	Mars 5 XD			Mars 5 XD LRF		
	Mars 5 XD 2-20x	Mars 5 XD 3-30x	Mars 5 XD 4-40x	Mars 5 XD LRF 2-20x	Mars 5 XD LRF 3-30x	Mars 5 XD LRF 4-40x
Item #	MS51250A	MS51275A	MS51210A	MS51250LRF	MS51275LRF	MS51210LRF
Laser Rangefinder	No			Yes		
Sensor	1280x1024 60 fps 12 µm					
Magnification	2-20×	3-30×	4-40×	2-20×	3-30×	4-40×
Field of view, degrees	17.6x13.2	11.8x8.8	8.8x6.6	17.6x13.2	11.8x8.8	8.8x6.6
Core	ATN Obsidian V Quad Core T					
Micro Display	OLED display 1024x768					
Eye relief	90 mm					
Video Record Resolution	1280x960 @ 60 fps					
Ballistic Calculator	Yes					
WiFi (Streaming, Gallery, & Controls)	iOS & Android					
Bluetooth	Yes					
3D Gyroscope	Yes					
3D Accelerometer	Yes					
RAV (Recoil Activated Video)	Yes					
Electronic Compass	Yes					

Model	Mars 5 XD			Mars 5 XD LRF		
	Mars 5 XD 2-20x	Mars 5 XD 3-30x	Mars 5 XD 4-40x	Mars 5 XD LRF 2-20x	Mars 5 XD LRF 3-30x	Mars 5 XD LRF 4-40x
Smooth Zoom	Yes					
Radar	Yes					
Reticles	Multiple Patterns & Color Options, User Custom reticles					
Reticle Editor	Yes					
Microphone	Yes					
MicroSD card	4 to 64 Gb					
USB, type C	Yes					
Mount	30 mm Standard Rings (included)					
Battery life (Li-ion)	10 hrs					
Waterproof rating / IP rating	Weather resistant					
Human Detection Range	2150	3200	4000	2150	3200	4000
Human Recognition Range	860	1440	1800	860	1440	1800
Human Identification Range	480	610	720	480	610	720
Operating Temperature	-20°F to +120°F / -28°C to 48°C					
Dimensions	14.4”x2.9”x2.9” 365x73x73 mm	15.5”x2.9”x2.9” 395x73x73 mm	16.7”x2.9”x2.9” 425x73x73 mm	14.4”x2.9”x2.9” 365x96x73 mm	15.5”x2.9”x2.9” 395x96x73 mm	16.7”x2.9”x2.9” 425x96x73 mm
Weight	2.5 lb / 1.133 kg			2.7 lb / 1.203 kg		
Warranty	3 years					

* ATN reserves the right to change the above specifications at any time without notice

PREPARING THE DEVICE

UNPACKING

The following steps must be performed before using the device.

1. Open packaging box, remove 5 XD / 5 XD LRF.
2. Verify your box has the following: Optic, Optic Cover, Sunshade, Rubber Eye Piece, Rings, Charging Cable.
3. Inspect the device for damage to optical surfaces, body, eyecups, operation buttons, etc.
4. Ensure that all optical surfaces are clean and ready for use.

NOTE

If any accessories are missing or broken contact ATN's Customer Service at +359 32570140.

CHARGING THE DEVICE

The device is equipped with a USB (type C) port. You will find it under the rubber cap on the right side of the device (caps are marked with appropriate icon).

We have included a USB (type C) charging cable with your scope. Plug the cable into a USB wall charger that has an output of 2 amps (Wall Charger not included).

Charge your scope for 7 hrs using a 2 A USB wall charger. Note using a wall charger with lower amperage will take longer to charge your scope.

1. Recommended charger is 2 A USB charger.
2. Battery charging time (from 0 to 100%) is 7 hours with 2 A USB charger.
3. Battery run time is 10 hours on a single charge.

MICRO SD AND USB C PORTS

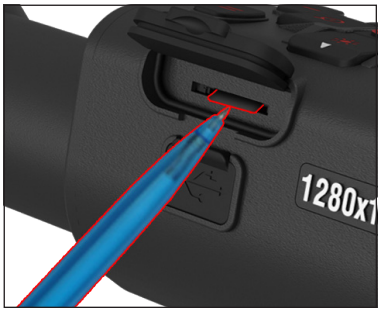
The device is equipped with a microSD Card and USB (type C) ports. You can find them under the rubber caps on the right side of the device (we marked the caps with appropriate icons).

To open the rubber port cover, gently lift the rubber cover and move it out of the way.

NOTE

Make sure that the device is turned off before inserting the formatted microSD Card into its assigned port.

1. Always format a new microSD card before using.
2. Insert microSD card as shown.
3. Use a thin object (small coin, paper clip) to lock the microSD card in place after inserting it into the slot.
4. Return the cover to its original position.



NOTE

There is only one correct direction to insert the microSD Card.

Do not force the microSD Card into the port doing so may cause damage to both the scope and the card itself.

To remove the microSD Card from the port, push the card slightly in using the same thin object you did before. When the card pops up a few millimeters, pull the card out with your fingers or tweezers.

NOTE

If you are going to record video, the microSD Card should be a Class 10 (10 Mb/sec) or faster and have capacity from 4 to 64 Gb that is an HC type SD card.

FIRMWARE UPDATE

Before operating your device, update the firmware to the latest version. All firmware updates can be found on at https://www.atneu.com/firmware.

To receive a notification concerning new firmware updates, please register your device on our website. An email notification will be sent when a new firmware update becomes available.

To update the firmware you will need a microSD Card and fully charged internal battery.

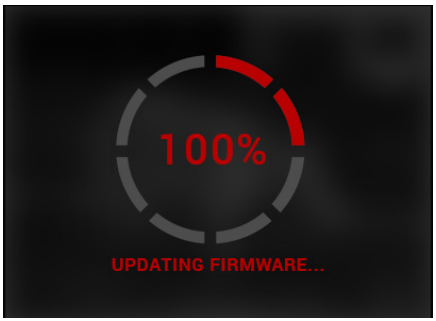
NOTE

In the event of a power failure during an update, the device may crash. This will corrupt the system files and the device will need to be sent back to the ATN factory for service.

To ensure your zero coordinates are not lost, write down your zero coordinates before continuing to update the firmware.

Update the new firmware as follows:

1. Download the ***.bin** file and copy to your microSD Card — root directory.
2. Insert the card into the scope.
3. Turn ON the scope.
4. In the “Firmware Update” dialog box select “Yes” to start the update.



5. When the update counter reaches “100%” the device will automatically restart.
6. Once the device is powered up it will enter self configuration mode.
7. After completing it will automatically restart.
8. Motion Sensing platform will be configured when first turned on.
9. Once the Firmware update completes, please do a factory reset before using the product.
10. Please delete the Firmware file off of the microSD card after the process is complete. Or the system will try to update the Firmware every time you turn the scope on.

NOTE

If the scope freezes or stops responding to the control panel. Press and hold the Power button for 15 seconds to reboot the scope.

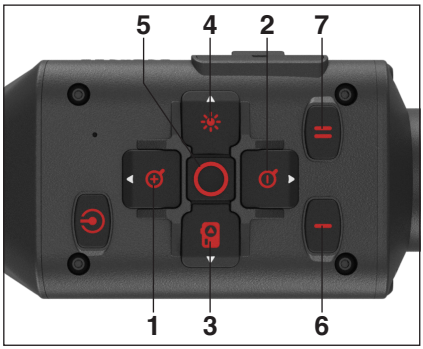
ON/OFF

To TURN ON the device, press and hold the POWER button until you see the ATN splash screen.

To TURN OFF the device, press and hold the POWER button, until “Shut down the device?” appears in the dialog box. Choose “Yes” to turn off.

If the scope freezes or stops responding to the control panel. Press and hold the Power button for 15 seconds to reboot the scope.

USING YOUR KEYPAD



1. Up button: On the homescreen adjusts zoom in level. Pressing and holding the Up Button will engage smooth zoom in. Short Press of the Up Button will engage Step Zoom in. Up Button is also used to navigate in the carousel and system menu.

2. Down button: On the homescreen adjusts zoom out level. Pressing and holding the Down Button will engage smooth zoom out. Short Press of the Down Button will engage Step Zoom out. Down Button is also used to navigate in the carousel and system menu.

3. Left button: On the homescreen a Short Press of the Left Button will activate photo capture. A Long Press of the Left Button will switch the mode to Video. Left Button is also used to navigate in the carousel and system menu.

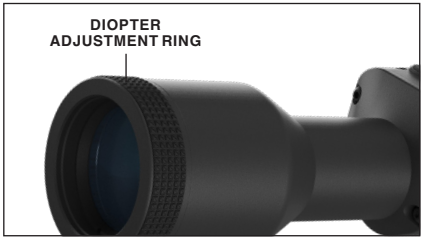
4. Right button: On the homescreen changes the device display brightness. Right Button is also used to navigate in the carousel and system menu.

5. OK button: Using the OK Button opens the Carousel from the home screen and confirms selections in the menu.

6. Function 1: When you have the Carousel Open or Menu open, pressing the F1 button will close the Carousel or Menu. When you are on the home screen and your device has an attached LRF, pressing F1 will activate the LRF.

7. Function 2: When using your Obsidian 5 device and you are in the environmental settings menu, pressing F2 will allow you to go to the next screen to update the environmental settings. When on homescreen pressing the Function 2 button will perform a manual NUC of the system.

FOCUSING



DIOPTER ADJUSTMENT

By rotating the Diopter Adjustment Ring you will achieve optimal sharpness for your vision. Look through the eyepiece while focusing on the reticle and widgets on the screen.

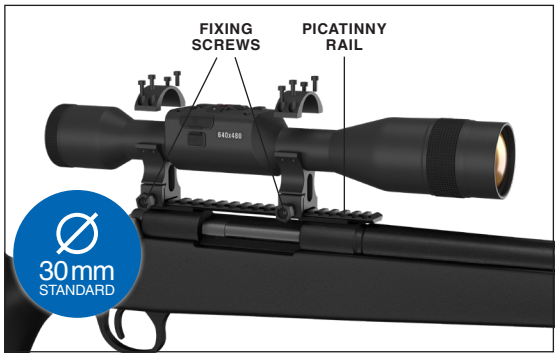
NOTE

Once the Diopter Adjustment is set to your liking, adjustment will not need to be performed unless another user altered the focus for their needs.

DISTANCE FOCUS

Rotate the Adjustment Ring, as necessary, to achieve the proper focus at various distances.

MOUNTING YOUR SCOPE



The Mars 5 has a 3.5-inch eye relief (90 mm), and can be mounted using 30 mm mounting rings. ATN has provided two standard rings and one L shape ring. The L shape ring is for those instances when you need extra eye relief for certain rifles. First, choose your preference of rings and position and mount the bottom portions of your rings to your rail for optimal eye relief. Place the scope on the bottom half of the rings you just mounted, verifying you have sufficient eye relief for your platform. Place the top portion of your ring over the mounted bottom portion, make sure the holes align and the screws turn easily. Apply equal torque to all screws with the provided Allen wrench. Make sure your rings are tight on your rifles rail and will not come loose due to recoil.

1. For mounting the Mars 5 on the Picatinny rail:
2. Loosen the fixing screws on the sides of the mounting rings.
3. Place the rifle scope on the Picatinny rail so that the projection of the rail, which is in the base of the ring, enters the recess in the rail.
4. Tighten the fixing screws of the mounting rings.

CAUTION!

Be sure your weapon is not loaded. Use safe weapon handling procedures at all times.

NOTE

Please do not over tighten the Fixing Screws when attaching the rings to your rail, we recommend using 30 in-lbs.

COMPASS CALIBRATION

When the compass needs to be calibrated the word “CAL” appears instead of the Compass Scale. To calibrate you should rotate the device on three axis as pictured on the right.

NOTE

After calibrating the device please remember that the compass will work best when holding the Mars 5 parallel to the ground.