

NVMD



Day Night Technologies

User Manual

NVMD-C200

Night Vision Multi-Purpose Device

Note: *To have the best experience, please make sure your firmware is up to date. These updates may or may not be reflected in the manual.*

For the latest User Manual and firmware updates, please visit
dntoptics.com

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READ BEFORE USE

Safety Instructions

Device Operating Temperature: –20 to 50°C (–4 to 122°F)

DO NOT attempt to disassemble the device. Please contact us if there is any malfunction.

Power Supply

This device is powered by an external 18650 battery and provides up to 6 hours of operation. When the battery is low, it must be replaced. A 5V USB-C external power source can also be used to power the device directly.

***Note:** NVMD does not support charging the battery via the USB-C port. To charge the battery, please use an external battery charger.*

Package Contents

NVMD-C200 × 1	Microfiber Cloth × 1
DNT QDS-150 × 1	Tethered Lens Cap × 1
USB-C Data Cable × 1	NVMD Quick Start × 1
NVMD User Manual × 1	

Glossary

Long-press: Press and hold the button for 2 seconds.

Bolded Controls: Control instructions are marked in **bold** for easier reading. (e.g. **Menu Button**)

[Menu Items]: Menu items are enclosed in square brackets to indicate menu navigation steps clearly.

Menu navigation steps are shown in the following format:

[Main Menu] > [Reticle Settings] > [Reticle Colors] > [Red]

This means you first select [Reticle Settings] from the [Main Menu], then choose [Reticle Colors], and finally select [Red].

Live View: Refers to the main screen where live video is displayed. It is the default screen NVMD enters when powered ON.

Menu: Refers to the screen where menu items are displayed, including the main menu and sub-menus. The live video remains visible in the background while navigating the menus.

INTRODUCTION

NVMD-C200 (Night Vision Multi-Purpose Device) is a compact and versatile digital scope built for 24/7, all-weather operation in any environment. Its 4-in-1 multi-purpose design enables it to function as a red dot magnifier, standalone scope, clip-on, or action camera.

Features

■ 4-in-1 Multi-Mode Functionality

Functions as a red dot magnifier, standalone scope, clip-on, or action camera.

■ Large Target Surface & Large-Pixel CMOS Sensor

Delivers superior imaging performance in ultra-low-light conditions.

■ F1.2 Large Aperture with 1x Base Magnification

Works with the CMOS sensor to provide excellent night vision capabilities.

■ 65 mm / 2.6 in Eye Relief & Wide Eyebow

Ensures comfortable and flexible viewing, even during extended use.

■ 0.49" FHD Micro-OLED Display

Offers 5-level adjustable brightness for optimal clarity.

■ Built-in 32 GB eMMC Storage

Enables instant video recording anytime without external cards.

■ App Connectivity

Connects to the DNT App for real-time viewing and recording management, as well as clip editing from smartphone.

■ Flip-initiated Features

Supports automatic standby or auto recording when flipped. (Only with DNT QDF-170 Quick Detach Flip Mount - SOLD SEPARATELY)

Specifications

Sensor Specifications	
Sensor Resolution	1920 × 1080 pixels
Sensor Frame Rate	50 fps
Recording Format	1920 × 1080 pixels @ 50 fps
Optical Specifications	
Digital Magnification	1–6x
Eye Relief	65 mm / 2.6 in
Diopter Adjustment	±2D
Detection Range	400 m / 437 yd
Display Specifications	
Display Type	Micro-OLED
Display Resolution	1920 × 1080 pixels
Display Refresh Rate	50 Hz

Battery & Power Supply	
Battery Type	18650 Battery (Flat-top)
Operating Time	6 h
External Power Supply	5V USB-C
Physical Specifications	
Net Weight	390 g / 13.76 oz
Total Weight (incl. Battery & QDS-150)	Approx. 587 g / 20.71 oz
Dimensions	98.6 × 72.5 × 62.7 mm 3.88 × 2.85 × 2.47 in
Built-in Memory	32 GB eMMC (TLC)
Ingress Protection Level	IP67
Wi-Fi / App	Supported / DNT App
Environmental Specifications	
Operating Temperature	−20 to 50°C / −4 to 122°F
Storage Temperature	−20 to 60°C / −4 to 140°F

Download the DNT App to Unlock More Features

Scan the QR codes below to download the DNT App and connect your device to your smartphone. The digital version of this manual, along with updated features, is available on the DNT App.

By connecting your NVMD to your smartphone, you can view the scope's live video feed in real time; manage, edit and transfer recordings directly from your smartphone.

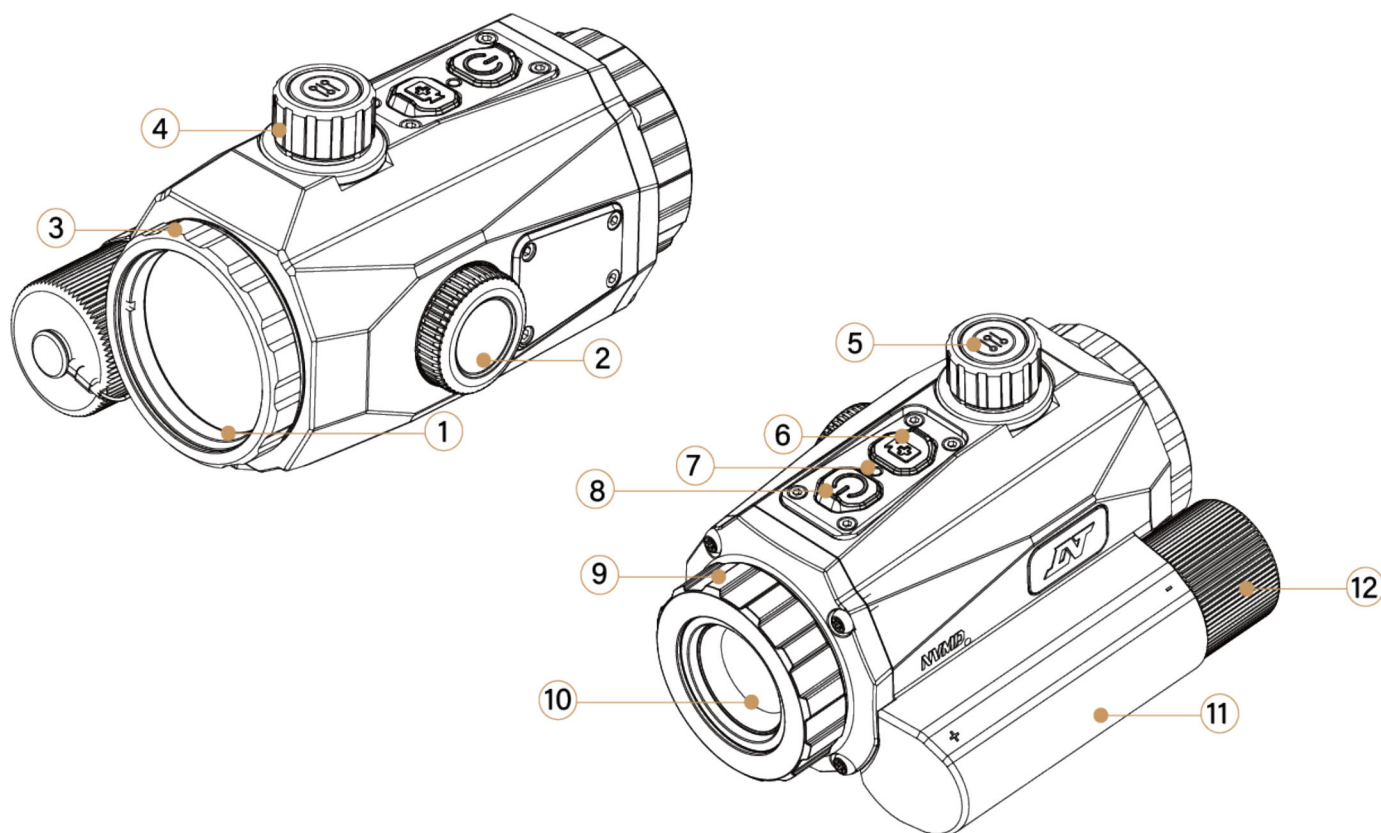


Android 9.0 and above



iOS 12.0 and above

Device Overview



1. Ocular Lens

2. USB-C Port Cap

3. Diopter-adjustment Ring

4. Zoom Knob

5. Menu Button

6. Record Button

7. Power Indicator

8. Power Button

9. Focus-adjustment Ring

10. Objective Lens

11. Battery Compartment

12. Battery Cap

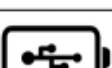
On-Screen Display



- | | |
|-----------------------------------|-------------------------------------|
| 1. Recording Indicator* | 10. Storage Error Indicator* |
| 2. PiP Window | 11. Wi-Fi Indicator* |
| 3. PiP Reticle | 12. Compass Indicator* |
| 4. Current Color Mode | 13. Microphone Indicator* |
| 5. Screen Brightness Level | 14. DNT Logo |
| 6. Current Time | 15. Compass |
| 7. Battery Level* | 16. Reticle |
| 8. Current Magnification | 17. Vertical Angle Indicator |
| 9. Roll Angle Indicator | |

Recording Indicator: Indicates the recording status. The timer shows the current video recording duration.

Battery Level: Indicates the current battery level. See the table below for details.

Icon	Status	Battery Status
	Low Battery	0% ~ 10%
	1 bar	10% ~ 20%
	2 bars	20% ~ 50%
	3 bars	50% ~ 80%
	4 bars	80% ~ 100%
	USB Powered	Connected to Type-C

Storage Error Indicator: Indicates when an internal storage error has occurred.

Wi-Fi Indicator: Indicates Wi-Fi is ON. No display when Wi-Fi is OFF.

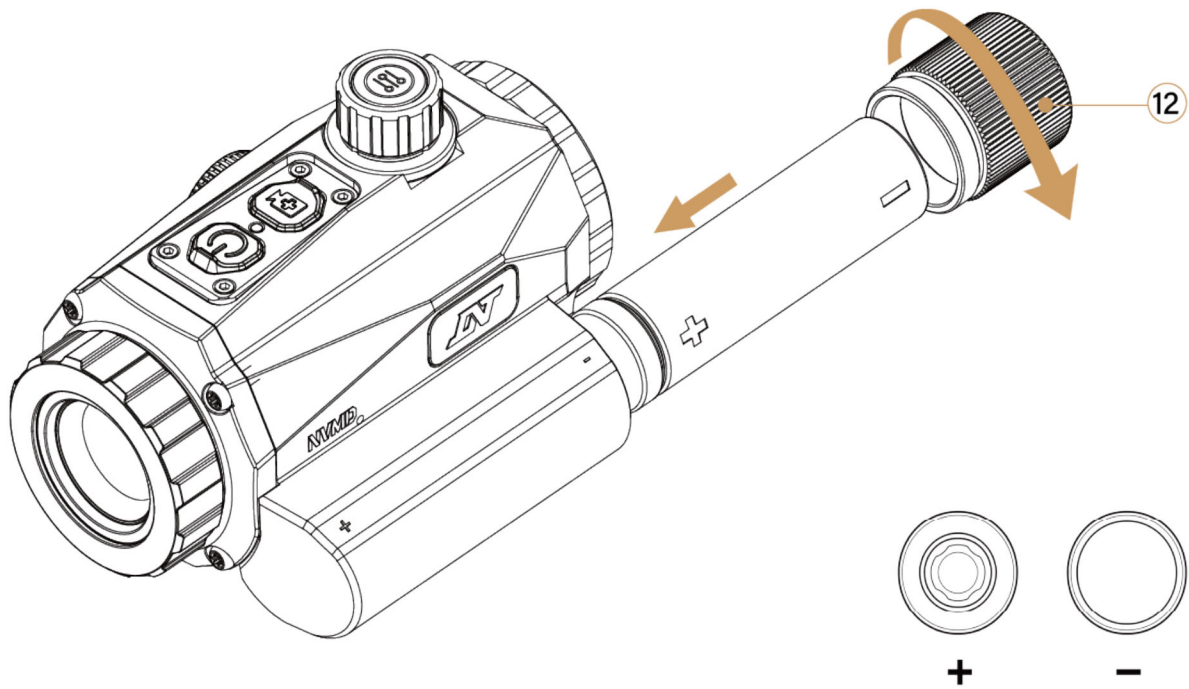
Compass Indicator: Indicates that the compass is ON.

Microphone Indicator: Indicates whether the recorded video has sound. (A mute icon  is displayed when the microphone is OFF.)

START USING

This part covers everything you need to know to get your NVMD ready to use for the first time.

Installing Battery



1. Twist the **Battery Cap** counterclockwise to remove it.
2. Insert the 18650 battery into the **Battery Compartment**, with the positive (+) end facing inward.
3. Press the **Battery Cap** against the battery's negative (-) end and twist it clockwise until fully tightened.

Quick Start



■ In Live View

Press **Power Button**: Toggle Standby Mode ON/OFF

Long-press **Power Button**: Turn NVMD ON/OFF

Press **Record Button**: Start/End Recording

Long-press **Record Button**: Cycle through Four Color Modes

Press **Menu Button**: Cycle through Five Display Brightness Levels

Long-press **Menu Button**: Enter [Main Menu]

Rotate **Zoom Knob**: Zoom IN (clockwise)/OUT (counter-clockwise)

Menu Navigation

■ In Live View

Long-press **Menu Button** to enter [Main Menu].

■ In Menu (including the main menu and all sub-menus)

Rotate **Zoom Knob** clockwise to navigate DOWN.

Rotate **Zoom Knob** counterclockwise to navigate UP.

Selected menu items will be shaded; their names will be presented at the top of the menu list.

Press **Menu Button** to navigate FORWARD.

This will either confirm the current selection to bring up the next menu pane, toggle functions ON/OFF, or lock in on a menu item for value changes.

Long-press **Menu Button** to navigate BACKWARD.

This will return to the previous menu pane, and, while in Main Menu, return to Live View.

■ When Changing Values (e.g., Changing Reticle Position)

Rotating **Zoom Knob** clockwise will INCREASE the value.

Rotating **Zoom Knob** counterclockwise will DECREASE the value.

In certain sub-menus like [Date/Time], where items are aligned horizontally, rotating the Zoom Knob will navigate LEFT and RIGHT.

Diopter and Focus Adjustment

■ Diopter Adjustment

This adjustment helps achieve the best screen clarity for your eye and is independent of the target (therefore, you can set it even with the objective lens cap closed).



9: Focus-adjustment Ring | 3: Diopter-adjustment Ring

Look through the **Ocular Lens** from about 65 mm / 2.6 in away. You should see the entire screen, although it may not be crystal clear.

Slowly rotate **Diopter-adjustment Ring** clockwise or counter-clockwise until you achieve the best screen clarity.

Once set, no further adjustment is needed.

■ Focus Adjustment

This adjustment is the same as the parallax adjustment on optical scopes and helps achieve the best target clarity from a certain distance. You may need to adjust this frequently to keep target in focus.

Make sure your diopter is adjusted, and you have perfect vision of the screen.

If the screen can't display the target clearly, slowly rotate **Focus-adjustment Ring** clockwise or counterclockwise until the screen displays the target perfectly clear.

Zeroing NVMD

■ Zeroing Menu



■ To Enter the Zeroing Menu:

[Main Menu] > [Zeroing]

In Zeroing Menu, press **Power Button** to freeze/unfreeze the current image or select [Freeze] and toggle with **Menu Button**.

Select [Zeroing Profile] to switch between 10 onboard profiles.

Select [X] and [Y] to adjust the horizontal and vertical positions of the reticle respectively.

Rotate **Zoom Knob** to navigate UP or DOWN and press **Menu Button** to lock in on an item and start adjusting the value.

Rotating **Zoom Knob** clockwise will INCREASE the value, counter-clockwise will DECREASE the value.

Select [Save] to save and exit; **Select** [Exit] to exit without saving.

■ Zeroing Example

Below is a step-by-step guide on how to zero your NVMD.



Figure 1

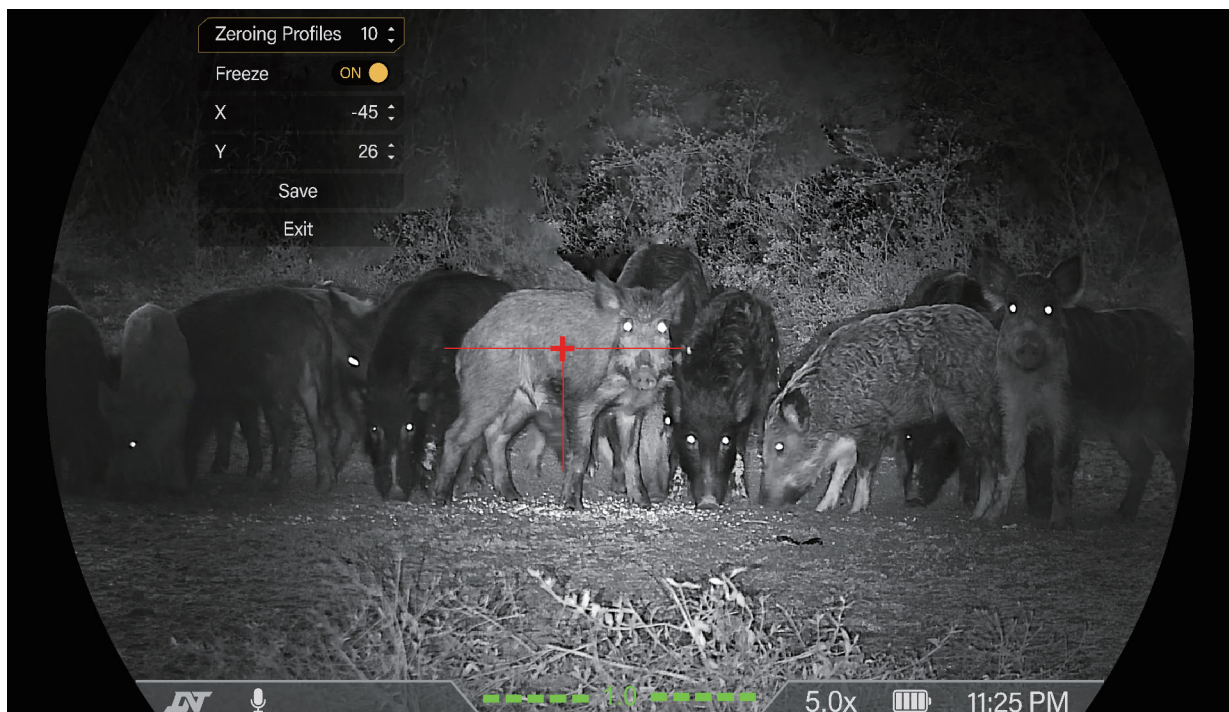


Figure 2

1. Make sure the NVMD is tightly mounted and held steady.
2. Enter the Zeroing Menu:

[Main Menu] > [Zeroing]

3. Find/Place a target at your desired zeroing distance (DNT recommends 50 yards/meters). Adjust focus and zoom to get a clear sight.
4. Select a Point of Aim (POA) on the target. You will get a Point of Impact (POI), marked as **+** on **Figure 1**.
5. Move the center of reticle back to the POA, then freeze the image.
6. In [X] and [Y], adjust the position of the reticle so that its center matches the POI **+**, as shown in **Figure 2**.
7. Select [Save] and confirm to save and exit. Your new POA is now zeroed with the POI at your selected distance.

■ **Clip-On Zeroing**

In Clip-On Mode, [Zeroing] becomes [Clip-On Zeroing]. Unlike adjusting the position of the digital reticle when zeroing in Scope Mode, zeroing NVMD in Clip-On Mode adjusts the position of NVMD's display so that the Point of Impact (POI) shown on NVMD's screen matches the Point of Aim (POA) of your zeroed glass optic.

1. Make sure NVMD is tightly mounted and that your glass optic is already zeroed. Adjust parallax on your glass optic until you get a clear view of NVMD screen.
2. Enter the Clip-On Zeroing Menu:

[Main Menu] > [Clip-On Zeroing]