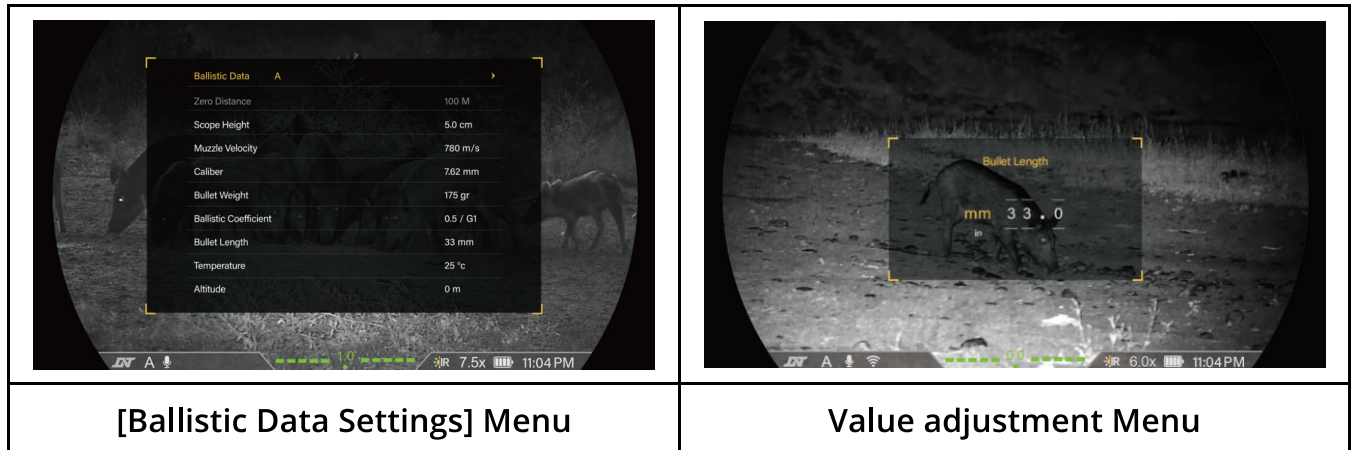


Ballistic Data Settings

This sub-menu stores ten Ballistic Data profiles (A-J). You can edit them on-board or through the DNT App.



- Navigate up or down with **Menu Button** or **Record Button**. Press **PiP Button** to enter the data adjustment screen, press **Day/Night Button** to exit.
- In the data adjustment screen, press **Day/Night Button** or **PiP Button** to navigate left or right, and press Menu Button or Record Button to increase or decrease values.
- Long-press **Day/Night Button** or **PiP Button** to save and exit the Data Adjustment Screen.

Aiming Method

The ThermNight 4K features two ballistic solution modes: Holdover and Dial In. Holdover mode displays a marker on your reticle, while Dial In mode moves the reticle to the calculated point of aim.



Aiming Mode – Holdover



Aiming Mode – Dial In

Displaying Ballistics

This sub-menu adjusts the unit of ballistic solutions; users can choose between [MRAD] / [MOA] / [cm] or [inches].



- **[Main Menu] > [Ballistic Calculator] > [Display Ballistics]**
 - Navigate up or down with **Menu Button** or **Record Button**. Press **PiP Button** to confirm the selection.
 - To turn off ballistic display, select [Off].
-

Ranging

Ranging Modes

Continuous Ranging

- Press **Ranging Button** to turn on ranging. The screen will display the ranging icon and target distance.
- As the distance to the target changes, the range displayed will update in real time.
- To turn off ranging, long-press **Ranging Button**.

Single Pulse Ranging

- Press **Ranging Button** to turn on ranging. The screen will display the ranging icon and the target distance.
- Regardless of whether a distance is successfully measured, only one ranging operation is performed per press.
- Press **Ranging Button** again to initiate a new measurement.
- To turn off ranging, long-press **Ranging Button**, or it will automatically turn off after 20 seconds of inactivity.

Timed Ranging

- Press **Ranging Button** to turn on ranging. The screen will display the ranging icon and the target distance.
- Within the selected duration, as the distance to the target changes, the range displayed will update in real time.
- Pressing **Ranging Button** again during this period will reset the timer.
- Once the time expires, the screen will display the last measurement.



- The user can select ranging modes through:
- **[Menu] > [LRF Settings] > [Ranging Modes] > [Continuous Ranging] / [Single Pulse Ranging] / [Timed Ranging 3s / 5s / 10s]**



- Continuous Ranging updates distance constantly for moving targets but requires increased power consumption. Single Pulse Ranging performs one measurement per press, keeping the result static on the display for data logging. Timed Ranging updates measurements on-screen for a pre-set interval before displaying the final reading.
-

Connections

One Tap Connect

One Tap Connect uses the scope's built-in Bluetooth Low Energy module for continuous detection and a seamless connection. You no longer need to manually turn on the scope's Wi-Fi or switch networks on your mobile device, as One Tap Connect handles these steps automatically.

1. Power on your scope, no other settings required.
2. Launch DNT App on your mobile device. If prompted, please grant permissions to "Bluetooth" and "Nearby Devices".
3. A connection window should pop up in the App, signaling the detection of your scope, tap "**Connect**" to initiate connection.
4. A unique confirmation code will appear on both the app and inside the scope's display. Verify that the codes match, then confirm on the scope.
5. The automated handshake will begin. Please wait a moment while the system synchronizes; the app will notify you once the connection is successful.
6. **Future Use:** Once this initial pairing is complete, the DNT App will automatically recognize and link to your scope every time the app is launched.



- To ensure the One Tap Connect feature functions correctly, please grant Bluetooth permissions on your mobile device. These permissions allow the app to detect the device's integrated Bluetooth Low Energy signal, which is active whenever the unit is powered on; without them, the device will remain undetectable.

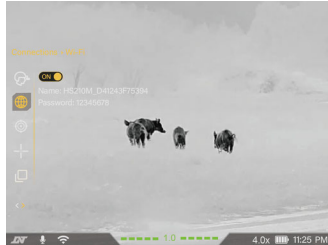


- **App Version:** Ensure your DNT App is updated to v1.4.6 or higher to support One-Tap functionality.
 - **Timeout Window:** The app will actively scan for devices for 2 minutes after it is launched. The scan will then stop to preserve battery.
 - **Manual Refresh:** If your scope is not found within the timeout window, simply tap [Device]  icon in the app to restart the scanning process.
-

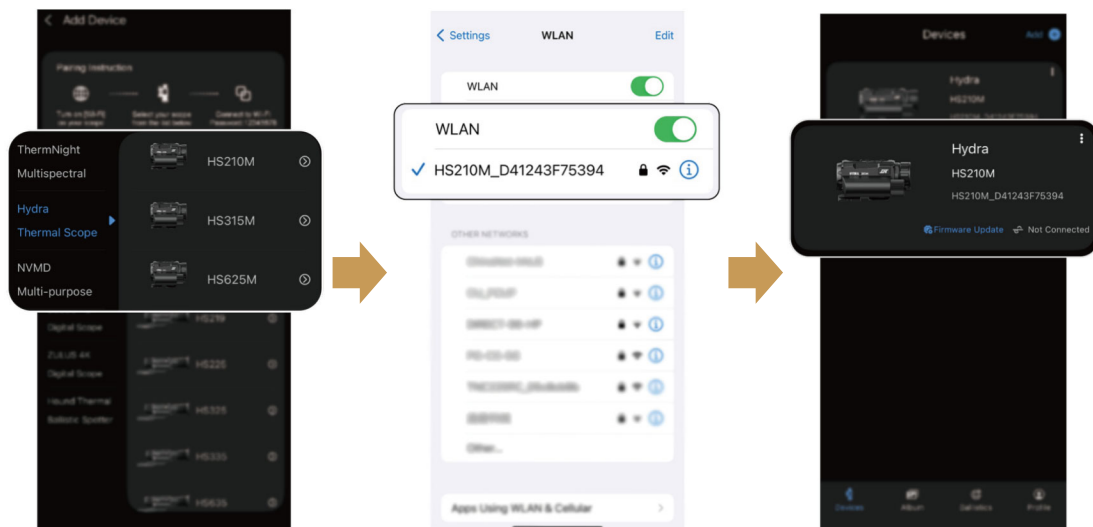
Manual App Connection

If One-Tap Connect is unavailable, you can establish a connection manually by following these steps:

1. Turning on the device Wi-Fi: [Main Menu] > [Connections] > [Wi-Fi] > [On]



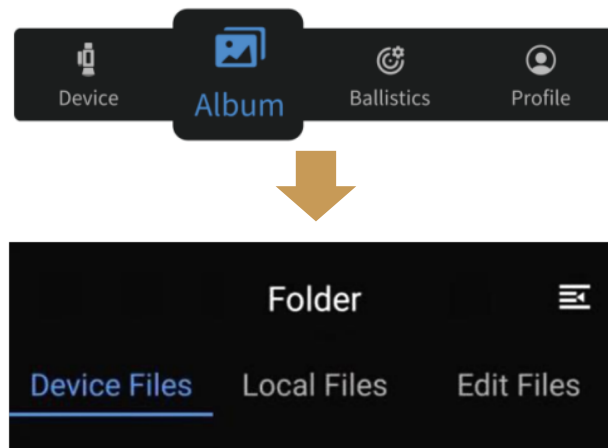
2. Open the DNT App, tap [Add Device], select [ThermNight Multispectral], find your model, and tap it to add. This will take you to WLAN settings.
3. In your phone's WLAN Settings, turn on Wi-Fi, find the device's Wi-Fi name, and enter the corresponding password (normally 12345678) to connect your mobile device to the scope Wi-Fi. If prompted, select the option to "use without internet" on your mobile device.



4. Your Device is now connected, tap the device tile in Device page to start viewing the live footage, and when new firmware is released, a blue "Firmware Update" button will appear, tap it to start the Over The Air (OTA) update.

Accessing Recorded Videos via the DNT App

In the DNT App, under the [Album] tab, there are three sections: [Device Files], [Local Files], and [Edit Files].



Device Files

This is where all recorded videos are stored. You can only access these files when the device is connected to your phone via Wi-Fi.

Local Files

This is where videos saved from the device are stored within the app. Tap a video to preview it, then use the four buttons in the upper right corner to **edit** (Merge, Trim, Slow), **save** it to your phone/tablet's album, **share** it on social media, or **delete** it.

Edit Files

This section displays videos that have been edited using the Merge, Trim, or Slow functions. You can perform the same actions as in Local Files: **edit** again, **save** to album, **share**, or **delete**.

Icon	Button Name	Function Description
	Edit	Edit the video (Merge, Trim, Slow).
	Save to Album	Save the video to your phone or tablet's album.
	Share	Share the video on social media platforms.
	Delete	Delete the video.
	Save to Local Files	Save the video from Device Files to Local Files in the app.

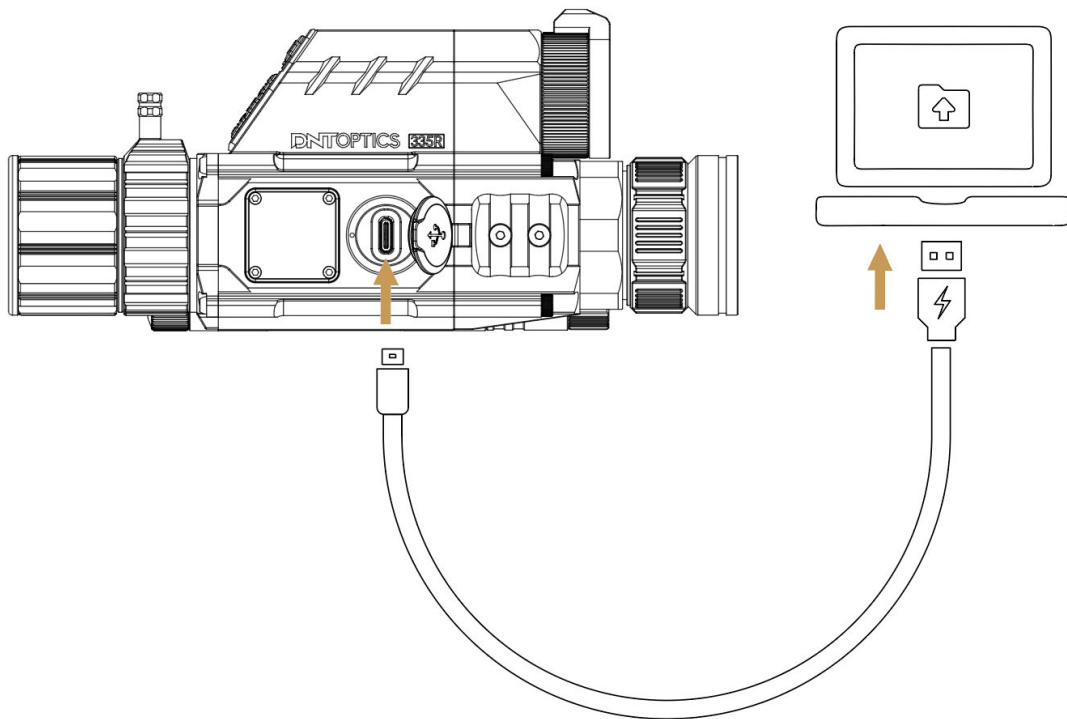
To Save Videos to Local Files

In the [Device Files] and [Edit Files] tabs, select the video you want, and tap the **Save to Local Files** button in the upper right corner to save it to [Local Files]. Once saved, you can access the video within the app even when the device is disconnected.

To Save Videos to Your Phone/Tablet's Album

First, save the video from [Device Files] to [Local Files]. Then, go to [Local Files], open the video you want, and tap the **Save to Album button** in the upper right corner to save it to your phone or tablet's album. You can also save edited videos by following the same steps from the [Edit Files] section.

USB-C Connection



Use the **Data Cable** in the box to Connect your scope with your computer's USB Port. The scope will appear on your computer as a USB drive. You can then preview and manage your recordings.



- ThermNight 4K connects to both Windows and Mac computers
-

Appendix

Table of Controls

Power Button

Status	Short-Press	Long-Press
Power-Off	--	Power ON Device
Live View	Enter Standby	Power OFF Device
Standby	Exit Standby	--
Zeroing Menu	Freeze / Unfreeze	--

Menu Button

Status	Short-Press	Long-Press	Double-Press
Live View	Cycle Reticle Color	Enter Main Menu	(Dual-Mode) Toggle [Thermal Zoom Lock]
Menu	Navigate UP	--	--
Changing Value	Increase Value	Rapid Increase	--

Day/Night Button

Status	Short-Press	Long-Press
Live View (Thermal)	Cycle Thermal Palettes	Perform Manual NUC
Live View (Digital)	(Night Mode) Cycle IR Level	Cycle between Day/Night Mode
Menu	Return / Cancel	--
Changing Value	Cancel	--
Date / Time	Navigate LEFT	Exit without Saving

**Record Button**

Status	Short-Press	Long-Press
Live View	Start / Stop Recording	Start RAV
Menu	Navigate DOWN	--
Changing Value	Decrease Value	Rapid Decrease--

**PiP Button**

Status	Short-Press	Long-Press	Double-Press
Live View	Cycle Brightness	--	(Thermal Channel) Cycle Thermal Imaging Modes
Menu	Select / Confirm	--	--
Changing Value	Confirm	--	--
Date / Time	Navigate RIGHT	Save and Exit	--

**LRF Button**

Status	Short-Press	Short-Press Again	Long-Press
Single Pulse Ranging	Measure Once	Measure Again	Clear measurements
Continuous Ranging	Start Measuring	Stop Measuring	Clear measurements
Timed Ranging	Start Measuring	Restart Timer	Clear measurements

**Channel Switch Button**

Status	Short-Press
PiP [Dual Mode]	Switch Channel Positions
Other Modes	Switch between channels

Table of Menus

Icon	Description	Page
	Connections Turn Wi-Fi [ON] / [OFF]	
	Zeroing Enter Zeroing Menu	
	Reticle Settings (Digital / Thermal) Reticles: [1-FFP] / [2-FFP] / [3-SFP] / [4-SFP] / [5-SFP] / [6-SFP] / [7-SFP] / [8-SFP] / [Hide] (Digital / Thermal) Reticle Colors: [Red] / [Green] / [Yellow] / [Black] / [White] LRF & Holdover Markers: [01] / [02] / [03] LRF & Holdover Marker Colors: [Red] / [Green] / [Yellow] / [Black] / [White]	
	Ballistic Calculator Ballistic Calculation: [ON] / [OFF] Aiming Method: [Holdover] / [Dial-in] Display Ballistics: [MRAD] / [MOA] / [cm] / [in] / [Off]	
	Auto Standby [ON] / [OFF]	
	Thermal Zoom Lock [OFF] / [2x] / [1x]	
	LRF Settings Ranging Modes: [Continuous Ranging] / [Single Pulse Ranging] / [Timed Ranging 3s / 5s / 10s] Ranging Units: [Meters] / [Yards]	
	PiP Settings [Off] / [Left] / [Center] / [Right]	
	Recoil Activated Video [Auto Mode] / [Manual Mode] / [OFF]	
	Digital / Thermal Toggle [Dual Mode] / [Digital] / [Thermal]	

Icon	Description	Page
	Digital Image Settings [Natural Mode] / [Color Enhancement]	
	Thermal Image Settings Thermal Imaging Mode: [Natural] / [Enhanced] / [Highlight] NUC: [Auto Mode] / [Manual Mode] Palettes: [White Hot] / [Black Hot] / [Red Hot] / [Iron Hot] Image Contrast: 1-5 Image Brightness: 1-5 Hotspot Tracking: Toggle [ON] / [OFF]	
	Function Settings Auto Power-Off: [Off] / [10 Minutes] / [20 Minutes] / [30 Minutes] Loop Recording: [Off] / [1 Minute] / [3 Minutes] / [5 Minutes] Audio ON/OFF: [ON] / [OFF] Gyroscope: [ON] / [OFF] / [Calibration] Screen Brightness: 1-6 Zeroing Freeze Countdown: [Off] [3s] [5s] [10s] Burn-In Protection: [ON] / [OFF]	
	System Settings Date / Time Language Setting: [English] / [Français] / [Español] / [Deutsch] / [Italiano] Format Restore Default Settings Available Storage Version No.	

FCC Warning

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, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: 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.

To maintain compliance with FCC's RF Exposure guidelines, this equipment must be installed and operated with a minimum distance of 0cm between the radiator and your body. Use only the supplied antenna.

