DNT Optics ZULUS 4K

DNT Optics Zulus 4K 3-24X Digital Day Night Vision Scope Instruction Manual

Model: ZULUS 4K

Introduction   Package Contents   Setup   Operation   Maintenance   Troubleshooting
Specifications   Warranty & Support

1. INTRODUCTION

The DNT Optics Zulus 4K 3-24X Digital Day Night Vision Scope is an advanced optical system designed for versatile use in various lighting conditions. Featuring a Sony 4K STARVIS 2 CMOS sensor, a 50mm f/1.8 ED glass lens, and an integrated laser rangefinder with DNT Ballistic Engine, this scope delivers high-resolution imaging and precise targeting capabilities for both day and night operations.

Image: The DNT Optics Zulus 4K Digital Day Night Vision Scope, showcasing its sleek, black design.

2. PACKAGE CONTENTS

Upon opening your DNT Optics Zulus 4K package, ensure all items listed below are present and in good condition. If any items are missing or damaged, please contact DNT Optics customer support.

- Zulus 4K Digital Day Night Vision Scope (x1)
- 30mm Scope Rings (x2)
- Sunshade (x1)
- Flip Up Cover (x1)
- Eye Cup (x1)
- Lens Cleaning Cloth (x1)
- User Manual (x1)
- Quick Start Guide (x1)
- Data Cable (USB-C) (x1)
- 21700 Battery Pack (x1)

Your browser does not support the video tag.

Video: An unboxing video demonstrating the contents of the DNT Optics Zulus 4K package, including the scope, accessories, and documentation.

3. SETUP

3.1. Battery Installation

1. Locate the battery compartment cap, typically on the side or top of the scope.
2. Unscrew the cap counter-clockwise.
3. Insert the provided 21700 flat-top battery, ensuring correct polarity.
4. Screw the cap back on clockwise until secure.

3.2. Mounting the Scope

The Zulus 4K is designed to fit standard 30mm mounting setups. Use the included 30mm scope rings for installation.

1. Attach the scope rings to your rifle's Picatinny rail or compatible mounting system.
2. Place the Zulus 4K scope into the rings, ensuring proper eye relief and alignment.
3. Secure the top halves of the scope rings, tightening screws evenly to the manufacturer's recommended torque specifications (35 in-lbs indicated on rings).

Image: The DNT Optics Zulus 4K Digital Day Night Vision Scope securely mounted on a rifle, ready for use.

3.3. Attaching Sunshade and Eye Cup

1. **Sunshade:** Thread the sunshade onto the objective lens (front) of the scope.

2. **Eye Cup:** Thread the eye cup onto the eyepiece (rear) of the scope.

3. Ensure both accessories are securely attached to prevent accidental detachment during use.

See Beyond 4K, Control Every Yard

The ZULUS 4K Tube-Style Digital Day & Night Vision Scope (ZULUS 4K) redefines digital optics as a complete all-in-one powerhouse. Its Sony STARVIS 2 4K CMOS sensor and 50 mm f/1.8 lens provide unmatched clarity, while the 3-24x magnification and integrated laser rangefinder (LRF) with DNT's proprietary Ballistic Engine deliver precision across diverse scenarios, eliminating guesswork in any light. Well-balanced and purpose-built, it keeps you decisively ahead in any environment.

Sony STARVIS 2 4K CMOS

Expansive FOV 15.4 × 8.6 yd

6x Lossless Digital Zoom

DNT Ballistic Engine

4. OPERATION

4.1. Powering On/Off & Standby

- **Power On/Off:** Long press the Power button to turn the unit on or off.
- **Standby Mode:** Short press the Power button to enter or exit standby mode, conserving battery life when not actively in use.

4.2. Day and Night Modes

The Zulus 4K offers seamless transition between day and night vision modes.

- **Switching Modes:** Long press the Day/Night button to switch between day and night vision modes.
- **Brightness Adjustment:** Short press the Day/Night button to adjust screen brightness levels.

Daylight to Moonlight, Always 4K Clear

Powered by Sony's 1/1.8" 4K STARVIS 2 CMOS sensor, the ZULUS 4K renders industry-leading clarity that captures life-like detail. Featuring a wide-aperture 50 mm f/1.8 lens made with premium ED (Extra-low Dispersion) glass, it maximizes light transmission while reducing color shift.

This advanced optical system rivals traditional day scopes in bright sunlight and preserves fine detail, clean edges, and natural contrast in moonlight — even without an IR illuminator. Combining 3–24x magnification with up to 6x lossless digital zoom, it empowers hunters to take precise, responsible shots every time.

Image: Visual representation of the Zulus 4K's performance, showcasing clear imaging in both bright daylight and low-light moonlight conditions.

4.3. Magnification and Digital Zoom

The scope features 3-24x magnification with up to 6x lossless digital zoom for precise targeting.

- **Adjusting Magnification:** Rotate the Magnification Ring to zoom in or out.
- **4K-30FPS Mode:** Provides over 8 million pixels for detailed viewing with 3-24x zoom.
- **1080P-60FPS Mode:** Offers smooth, high-speed footage with 3-12x zoom for tracking fast-moving targets.

4.4. Laser Rangefinder and Ballistic Engine

The integrated Laser Rangefinder (LRF) provides instant, precise ranging from 5 to 1300 yards. The DNT Ballistic Engine resolves complex trajectories and projects the ballistic solution directly into your view.

- **Activating LRF:** Short press the Ranging button to activate the laser rangefinder and display distance.
- **Ballistic Solution:** With ballistic data synced via the DNT App, the scope will display the holdover point on the reticle.

1300-Yard Precision LRF with DNT Ballistic Engine

Covering distances from 5 yards to 1300 yards, the built[]in laser rangefinder performs instant, precise ranging. At its core, the DNT Ballistic Engine instantaneously resolves complex trajectories, projecting the ballistic solution directly into your view. Whether you are adjusting settings in-scope or fine-tuning via the DNT App, this proprietary ballistic system ensures total readiness, from close-range pest control to long-range big-game pursuits.

Image: A hunter using the DNT Optics Zulus 4K, highlighting the active laser rangefinder beam for precise distance measurement.

4.5. Recording and Picture-in-Picture (PIP)

- **Manual Recording:** Short press the Record button to start/end video recording.
- **Recoil Activated Recording (RAV):** Long press the Record button to activate RAV. The scope will automatically record video when recoil is detected.
- **Picture-in-Picture:** Access PIP settings via the menu to display a magnified view in a smaller window on the screen.

4.6. Menu Navigation and Settings

- **Access Menu:** Long press the Menu button to enter the settings menu.
- **Navigate:** Use the Magnification Ring to scroll through menu options.
- **Select/Confirm:** Short press the Menu button to select an option.
- **Exit:** Long press the Menu button to exit the menu.
- **Reticle Settings:** Customize reticle type and color within the menu.
- **Zeroing Profiles:** Set and save multiple zeroing profiles for different firearms or ammunition types.

5. MAINTENANCE

5.1. Cleaning the Lenses

Regularly clean the lenses to ensure optimal image clarity.

- Use the provided lens cleaning cloth or a soft, lint-free cloth.
- Gently wipe the lens surfaces to remove dust and smudges. Avoid abrasive materials or harsh chemicals.

5.2. Environmental Protection

The Zulus 4K is built for durability in challenging conditions.

- **IP67 Rating:** The scope is IP67 waterproof and dustproof, providing protection against immersion in water up to 1 meter for 30 minutes and complete dust ingress.
- **Recoil Rating:** Recoil-rated up to .50 BMG, ensuring robust performance with high-caliber firearms.

6. TROUBLESHOOTING

If you encounter issues with your DNT Optics Zulus 4K, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
Device does not power on	Low or depleted battery; Incorrect battery installation	Charge the battery using the provided USB-C cable. Ensure the battery is inserted with correct polarity.
Poor image quality	Dirty lenses; Incorrect focus; Extreme environmental conditions	Clean lenses with the provided cloth. Adjust the focus ring. Ensure proper day/night mode is selected for current lighting.
Laser Rangefinder not working	Obstruction in front of LRF; Out of range; Software glitch	Ensure LRF is clear of obstructions. Confirm target is within 5-1300 yard range. Restart the device.
DNT App connectivity issues	Wi-Fi disabled on scope or phone; Incorrect password	Ensure Wi-Fi is enabled on both devices. Verify the correct Wi-Fi password. Restart both devices.

7. SPECIFICATIONS

- **Sensor:** Sony 1/1.8" 4K STARVIS 2 CMOS
- **Lens:** 50mm f/1.8 ED (Extra-low Dispersion) glass
- **Magnification:** 3-24x
- **Digital Zoom:** Up to 6x lossless
- **Video Resolution:** 4K-30FPS, 1080P-60FPS
- **Internal Storage:** 64 GB
- **Battery:** Replaceable 21700 flat-top battery (up to 6 hours operation)
- **Laser Rangefinder Range:** 5-1300 yards
- **Tube Diameter:** 30mm
- **Weight:** 24.3 Ounces
- **Waterproof/Dustproof Rating:** IP67
- **Recoil Rating:** Up to .50 BMG
- **Eye Relief:** 65mm (2.6")
- **Compatible Devices:** Rifle, Shotgun

8. WARRANTY & SUPPORT

8.1. Warranty Information

The DNT Optics Zulus 4K comes with a **2-Year Manufacturer Warranty**. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.

8.2. Customer Support

For technical assistance, warranty claims, or general inquiries, please contact DNT Optics customer

support. You can also utilize the DNT App to sync ballistic data, view live video feeds, manage your album, and share your adventures.

- **DNT App:** Available for download on your smartphone.
- **Online Resources:** Visit the official DNT Optics website for FAQs, updated manuals, and support contact information.

Package Contents

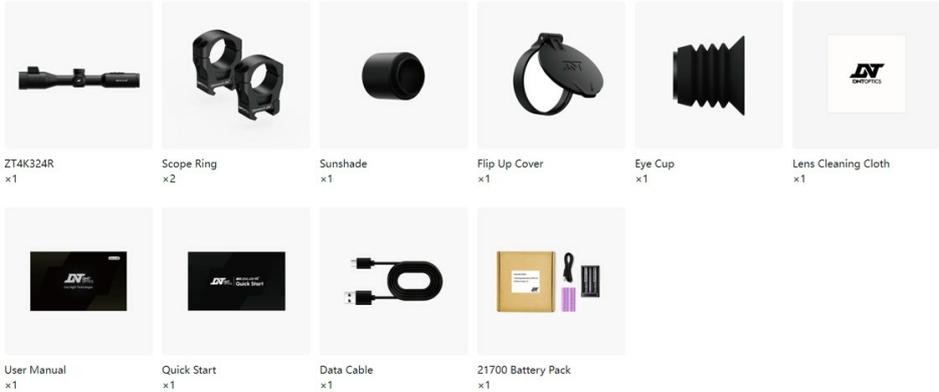|					
ZT4K324R ×1	Scope Ring ×2	Sunshade ×1	Flip Up Cover ×1	Eye Cup ×1	Lens Cleaning Cloth ×1
User Manual ×1	Quick Start ×1	Data Cable ×1	21700 Battery Pack ×1		

Image: A smartphone displaying the DNT App interface, connected to the Zulus 4K scope for enhanced control and data management.