ATK R1 SE+

ATK VXE Dragonfly R1 SE+ Wireless Gaming Mouse Instruction Manual

Model: R1 SE+

1. OVERVIEW

The ATK VXE Dragonfly R1 SE+ is a lightweight wireless gaming mouse designed for performance and versatility. It features a high-precision sensor, multiple connectivity options, and a long-lasting battery, making it suitable for various gaming and productivity needs.

Key Features:

- **Ultra-lightweight design:** Weighing approximately 55g, ensuring fatigue-free, swift gaming control.
- **Precision PAW3395 SE Sensor:** Offers adjustable DPI up to 18,000 for accurate tracking.
- **Adjustable Polling Rate:** Supports 125Hz to 2,000Hz for responsive input.
- **Tri-Mode Connectivity:** Seamlessly switch between 2.4 GHz wireless, Bluetooth, and wired USB-C connections.
- **Long Battery Life:** Provides approximately 70-75 hours of continuous use at 1000Hz polling rate.

Your browser does not support the video tag.

Video: ATK VXE Dragonfly R1 Gaming Mouse highlights. This video showcases the key features and design of the ATK R1 series gaming mouse.

2. PACKAGE CONTENTS

Carefully unpack your ATK VXE Dragonfly R1 SE+ Wireless Gaming Mouse and ensure all items are present:

- ATK VXE Dragonfly R1 SE+ Wireless Gaming Mouse

- USB-C to USB-A Charging/Data Cable
- 2.4G Wireless Receiver (USB dongle)
- Grip Tape (pre-cut stickers)
- Product Warranty Certificate
- User Manual (this document)

Your browser does not support the video tag.

Video: ATK R1 Gaming Mouse Unboxing Video. This video demonstrates the unboxing process and shows all included items with the ATK R1 series gaming mouse.

3. SETUP

3.1. Charging the Mouse

Before first use, it is recommended to fully charge the mouse. Connect the provided USB-C cable to the mouse's charging port and the USB-A end to a powered USB port on your computer or a USB wall adapter. The mouse will indicate charging status (e.g., LED indicator).

3.2. Connecting the Mouse

2.4G Wireless Mode:

1. Insert the 2.4G wireless receiver (USB dongle) into an available USB port on your computer.
2. Locate the power/mode switch on the bottom of the mouse and slide it to the 2.4G wireless position.
3. The mouse will automatically connect to the receiver. If connection is not established, press the pairing button (if available) on the mouse or refer to the ATK V HUB software for pairing instructions.

Bluetooth Mode:

1. Locate the power/mode switch on the bottom of the mouse and slide it to the Bluetooth position.
2. On your computer or device, navigate to the Bluetooth settings.
3. Search for new devices and select "ATK R1 SE+" from the list to pair.

Wired Mode:

Connect the mouse directly to your computer using the provided USB-C cable. The mouse will automatically switch to wired mode and charge simultaneously. This mode provides the most stable connection and eliminates latency.

4. OPERATING INSTRUCTIONS

4.1. DPI Adjustment

The mouse features an adjustable DPI (Dots Per Inch) setting, allowing you to customize cursor

sensitivity. The R1 SE+ model utilizes the PAW3395 SE sensor with DPI settings up to 18,000.

Pre-set DPI profiles for PAW3395 SE:

- Red: 400 DPI
- Green: 800 DPI (Default)
- Blue: 1600 DPI
- Purple: 3200 DPI

Use the dedicated DPI button (typically located on the bottom or top of the mouse) to cycle through these pre-set DPI levels. The LED indicator on the mouse will change color to reflect the currently selected DPI setting.
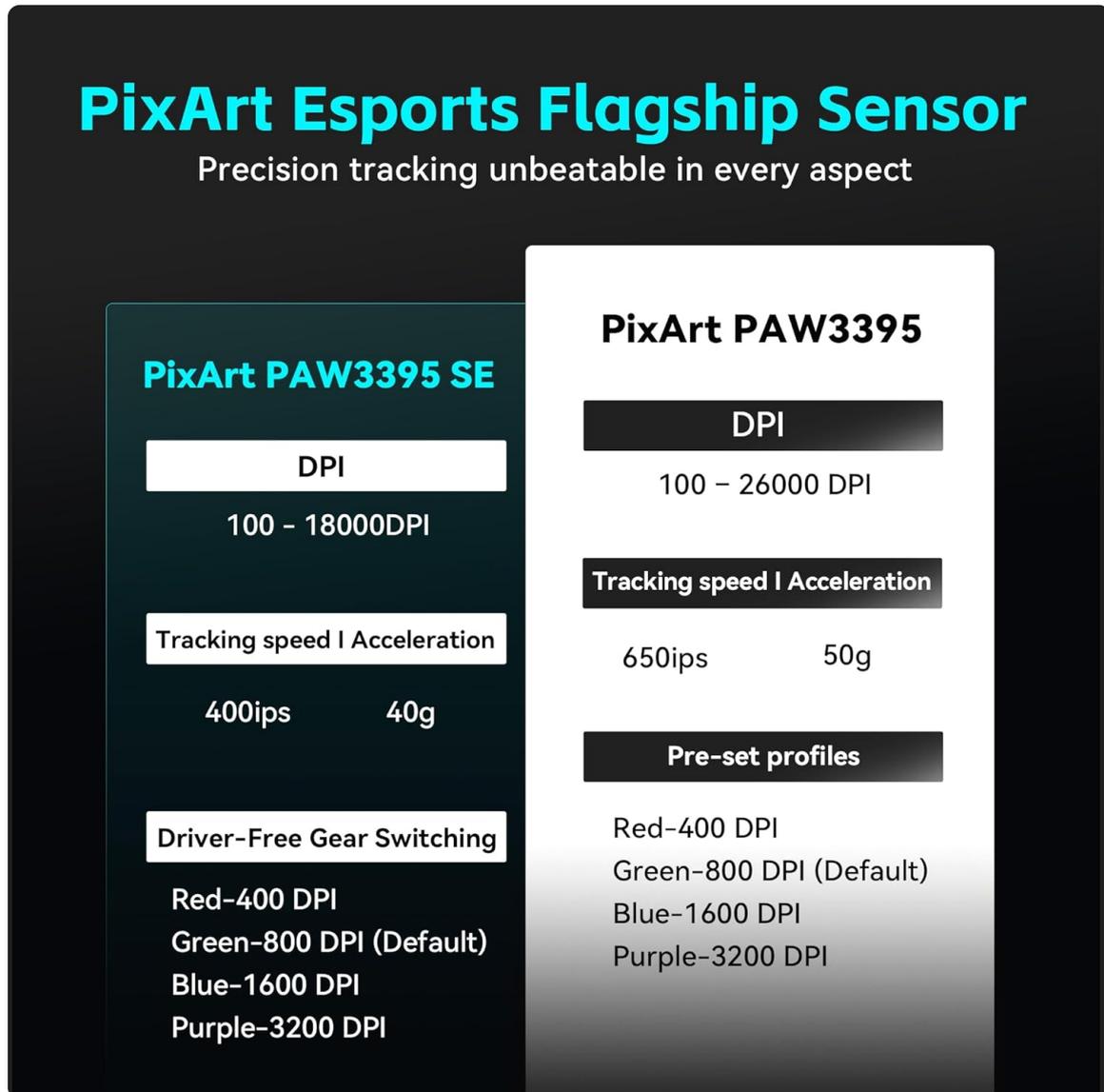

Image: Comparison chart detailing the specifications of the PixArt PAW3395 SE and PAW3395 sensors, including DPI ranges, tracking speed, acceleration, and pre-set DPI profiles.

4.2. Polling Rate

The R1 SE+ supports an adjustable polling rate from 125Hz to 2,000Hz. The polling rate determines how often the mouse reports its position to the computer. A higher polling rate results in smoother and more responsive cursor movement. This setting can be adjusted using the ATK V HUB software.

Image: The ATK VXE Dragonfly R1 SE+ mouse with a graphic indicating its high polling rate capabilities, highlighting the advanced MCU chip for optimal performance.

4.3. SmartSpeed X Wireless Transmission

The mouse incorporates SmartSpeed X wireless transmission technology, developed for low latency and enhanced endurance. This ensures smooth operation even in environments with strong signal interference, providing a reliable connection for competitive play.

Image: The ATK VXE Dragonfly R1 SE+ mouse with text emphasizing its Smart Speed X low-latency wireless transmission technology, ensuring smooth performance in various environments.

4.4. Customization (ATK V HUB Software)

For advanced customization, download and install the ATK V HUB software from the official ATK website. This software allows you to:

- Adjust DPI settings beyond pre-sets.
- Configure polling rate.
- Program button macros.
- Remap buttons.
- Manage other performance parameters.

The ATK V HUB software supports Windows 10 and above operating systems.

Product Name	VXE Dragonfly R1 Series				
Model	R1 Nearlink	R1 SE PLUS	R1	R1 PRO	R1 PRO MAX
Dimensions	120.6mm * 64.0mm * 37.8mm				
Coating	None			Smooth ice-feeling coating	
Sensor	PAW 3395 SE			PAW 3395	
Chip	HiSilicon Nearlink	BEKEN(compx)		Nordic 52840	
Transmission Technology	Smart Speed X Wireless				
Polling Rate	1000 Hz			125~4000Hz	
Battery	500mAh	500mAh	250mAh	250mAh	500mAh
Continuous Operating Battery Life	150h (1000Hz)	70h (1000Hz)	40h (1000Hz)	75h (1000Hz)	150h (1000Hz)
Weight	53g+3	55g	51g	48g	54g
Microswitch	Huanuo Blue Glow V2		Huanuo Ice Berry Pink Dot		Kailh White Blade 100 Million Clicks
Scroll Wheel	Kailh GE Upgraded Version			E10/TTC Silver Wheel (Random Dispatch)	
Mouse Feet	Swift PTFE Feet				
Connection Method	Wired/ Nearlink/BT	Wired/2.4G/BT		Wired/2.4G	
2.4G Receiver	Standard Receiver (Default 1K polling rate)				

Image: The ATK V HUB software interface, demonstrating its capabilities for adjusting DPI, polling rate, button macros, and other mouse settings.

5. FEATURES & SPECIFICATIONS

5.1. Design and Build

The R1 SE+ is engineered for an ultra-lightweight experience, weighing approximately 55g. This design minimizes fatigue during extended use and allows for swift, precise movements. The mouse features a matte texture for enhanced grip and durability.

Smooth ice-feeling

dirt-resistant and easy to clean, offering swift movement like a cheetah.

Smooth Texture

R1 PRO / R1 PRO MAX

Matte Texture

R1 / R1 SE+ / R1 Nearlink

Image: Internal view of the ATK VXE Dragonfly R1 SE+ mouse highlighting its lightweight components, including the PAW3395 SE sensor and Kailh switches. The image also shows weight comparisons for different R1 series models.
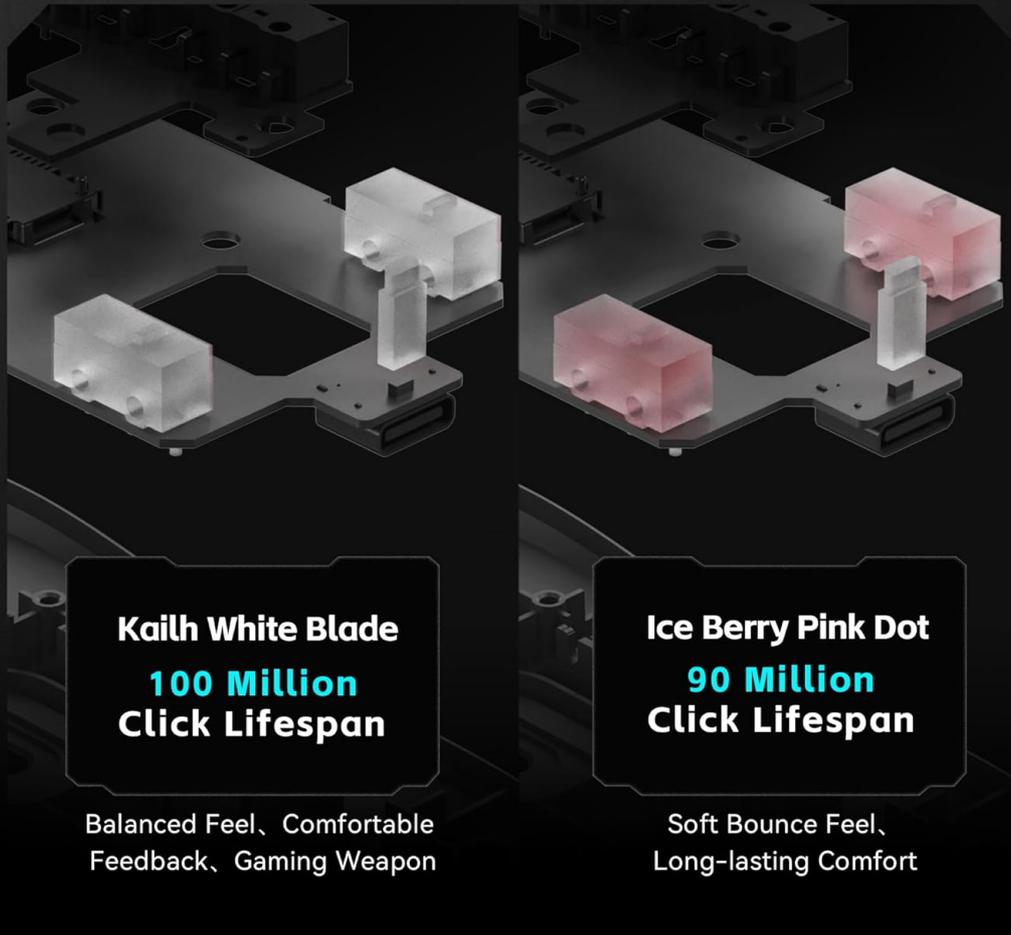
Image: Illustrates the smooth ice-feeling coating available on some R1 Pro models and the matte texture found on R1 SE+ and R1 models, designed for durability and grip.

5.2. Sensor Technology

The ATK VXE Dragonfly R1 SE+ is equipped with the PixArt PAW3395 SE optical sensor, an esports-grade sensor providing precise and consistent tracking. It offers a maximum DPI of 18,000, a tracking speed of 400 IPS, and 40g acceleration, ensuring accurate response in fast-paced gaming scenarios.

5.3. Switches

The R1 SE+ model features Huanuo Blue Glow V2 microswitches. These switches are selected for their balanced feel, comfortable feedback, and long lifespan, contributing to reliable performance over time.

Tri-Mode
Bluetooth/2.4G/Wired

type-c

Bluetooth 5.4

2.4GHz / Nearlink

Models that support Tri-Mode: R1 SE+, R1, R1 NearLink
Dual-Mode: R1 PRO, R1 PRO MAX

Smooth operation under both 2.4G receiver or Bluetooth mode in wireless scenarios, Also capable of quick charging via wired USB mode during gameplay.

Image: Detailed view of Kailh White Blade and Ice Berry Pink Dot microswitches, illustrating their internal mechanisms and highlighting their respective click lifespans and tactile feedback characteristics.

5.4. Connectivity

The mouse offers versatile Tri-Mode connectivity, supporting 2.4G wireless, Bluetooth 5.4, and wired USB-C. This allows users to choose the most suitable connection method for their setup, whether for gaming, work, or travel.

Image: Demonstrates the Tri-Mode connectivity options of the ATK VXE Dragonfly R1 SE+ mouse, including Bluetooth 5.4, 2.4GHz wireless, and wired USB-C connection.

5.5. Full Specifications Table

Image: Comprehensive table outlining the specifications for the entire VXE Dragonfly R1 Series, including model names, dimensions, coating types, sensors, chips, transmission technology, polling rates, battery capacities, continuous operating battery life, weight, microswitches, scroll wheels, mouse feet, connection methods, and 2.4G receiver details.

6. MAINTENANCE

6.1. Cleaning

- To clean the mouse, use a soft, dry, lint-free cloth.
- For stubborn dirt or grime, lightly dampen the cloth with water or a mild, non-abrasive cleaning solution. Ensure no liquid enters the mouse's internal components.
- Avoid using harsh chemicals, solvents, or abrasive materials, as these can damage the mouse's surface or internal parts.
- Regularly clean the optical sensor area on the bottom of the mouse to maintain tracking accuracy.

6.2. Storage

- Store the mouse in a cool, dry place away from direct sunlight, extreme temperatures, and high humidity.
- When not in use for extended periods, turn off the mouse using the power switch to conserve battery life.
- If transporting the mouse, consider using a protective case to prevent damage.

7. TROUBLESHOOTING

7.1. Mouse Not Responding

- **Check Battery:** Ensure the mouse has sufficient charge. Connect it via USB-C cable to charge.
- **Power Switch:** Verify that the mouse is turned on and the mode switch is set correctly (2.4G, Bluetooth, or Wired).
- **2.4G Wireless:** Ensure the USB receiver is securely plugged into a working USB port. Try a different USB port.
- **Bluetooth:** Confirm Bluetooth is enabled on your device and the mouse is paired. Try unpairing and re-pairing the mouse in your device's Bluetooth settings.
- **Wired Mode:** Connect the mouse directly with the USB-C cable to see if it functions. This helps determine if the issue is with wireless connectivity.

7.2. Cursor Movement Issues (Lag, Jitter, Inaccuracy)

- **Clean Sensor:** Gently clean the optical sensor on the bottom of the mouse with a soft, dry cloth to remove any dust or debris.
- **Surface:** Use the mouse on a clean, uniform surface, preferably a high-quality mouse pad. Avoid reflective or transparent surfaces.
- **DPI Setting:** Adjust the DPI setting using the DPI button or ATK V HUB software to find a comfortable and accurate sensitivity level.
- **Interference:** In wireless modes, minimize interference from other wireless devices (e.g., Wi-Fi routers, other wireless peripherals) by moving them further away.
- **Polling Rate:** Ensure the polling rate is set appropriately for your needs via the ATK V HUB software.

7.3. Connectivity Drops

- **Range:** Ensure the mouse is within optimal operating range of the 2.4G receiver or Bluetooth device.
- **Battery:** Low battery can affect wireless stability. Charge the mouse fully.
- **Firmware:** Check for and install any available firmware updates for the mouse using the ATK V HUB software. Firmware updates often improve connectivity and performance.

8. WARRANTY & SUPPORT

The ATK VXE Dragonfly R1 SE+ Wireless Gaming Mouse comes with a product warranty. Please refer to the included "Product warranty certificate" for detailed terms and conditions, including coverage period and claim procedures.

For further assistance, technical support, or warranty claims, please visit the official ATK website or contact ATK customer service through the contact information provided in your warranty documentation or on the official website.