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ATK R1 SE+

ATK VXE Dragonfly R1 SE+ Wireless Gaming Mouse Instruction Manual

Model: R1 SE+

1. INTRODUCTION

This manual provides detailed instructions for the setup, operation, maintenance, and troubleshooting of your ATK VXE Dragonfly R1 SE+ Wireless Gaming Mouse. Please read this manual thoroughly to ensure optimal performance and longevity of your device.





Image 1.1: Top view of the ATK VXE Dragonfly R1 SE+ Wireless Gaming Mouse in black.

Video 1.1: An overview of the ATK VXE Dragonfly R1 Gaming Mouse, showcasing its design and features. This video highlights the mouse's aesthetic and general functionality.

2. SETUP

2.1 Unboxing

Carefully open the product packaging and ensure all components are present. The package should contain the ATK VXE Dragonfly R1 SE+ mouse, a USB-C charging cable, a 2.4G wireless receiver, and documentation.

Video 2.1: An unboxing video for the ATK R1 Gaming Mouse, demonstrating the contents of the package including the mouse, cables, and accessories. This video provides a visual guide to what is included with your purchase.

2.2 Connectivity Options (Tri-Mode)

The R1 SE+ mouse supports three connection modes: 2.4G Wireless, Bluetooth, and Wired USB-C.

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 2.1: Diagram illustrating the Tri-Mode connectivity options: Bluetooth 5.4, 2.4GHz/Nearlink, and Type-C wired connection. This image highlights the versatility of the mouse's connection methods.

2.2.1 2.4G Wireless Connection

1. Locate the 2.4G wireless receiver (USB dongle) in the packaging.
2. Plug the receiver into an available USB port on your computer.
3. Turn on the mouse using the switch on the bottom. The mouse will automatically connect to the receiver.

2.2.2 Bluetooth Connection

1. Turn on the mouse and switch it to Bluetooth mode using the selector on the bottom.
2. On your computer, navigate to Bluetooth settings and search for new devices.
3. Select "ATK R1 SE+" (or similar) from the list of available devices to pair.

2.2.3 Wired USB-C Connection

1. Connect one end of the provided USB-C cable to the mouse.
2. Connect the other end of the USB-C cable to an available USB port on your computer.
3. The mouse will function immediately in wired mode and will also charge simultaneously.

2.3 Charging the Mouse

Connect the mouse to your computer using the USB-C cable. The mouse features a 500mAh battery, providing approximately 70-75 hours of continuous use at 1000Hz polling rate. An indicator light will show charging status.

2.4 Software Installation (V HUB)

For advanced customization of DPI, polling rate, button macros, and other parameters, download the V HUB software from the official ATK website. V HUB supports Windows 10 and above systems.

3. OPERATING INSTRUCTIONS

3.1 DPI Adjustment

The R1 SE+ utilizes the PAW3395 SE sensor, offering adjustable DPI settings up to 18,000 DPI. Pre-set profiles include 400, 800 (default), 1600, and 3200 DPI. You can cycle through these settings using the dedicated DPI button on the mouse or customize them further via the V HUB software.

PixArt PAW3395 SE		PixArt PAW3395	
DPI	100 – 18000DPI	DPI	100 – 26000 DPI
Tracking speed Acceleration	400ips	650ips	50g
Driver-Free Gear Switching	Red-400 DPI	Pre-set profiles	
	Green-800 DPI (Default)	Red-400 DPI	
	Blue-1600 DPI	Green-800 DPI (Default)	
	Purple-3200 DPI	Blue-1600 DPI	
		Purple-3200 DPI	

Image 3.1: Comparison table detailing the specifications of the PixArt PAW3395 SE sensor (used in R1 SE+) and the PixArt PAW3395 sensor. It shows DPI ranges, tracking speed, acceleration, and pre-set profiles for each sensor.

3.2 Polling Rate Adjustment

The R1 SE+ supports polling rates from 125Hz to 2,000Hz. The polling rate can be adjusted through the V HUB software to match your preference and system capabilities. Higher polling rates provide more responsive tracking.



Image 3.2: Illustration highlighting the Nordic/BEKEN(compx)/HiSilicon Nearlink MCU and the capability for 2K/4K polling rates. This image emphasizes the mouse's internal processing power and responsiveness.

3.3 SmartSpeed X Wireless Technology

The mouse incorporates SmartSpeed X wireless transmission technology, ensuring low-latency performance and stable connectivity, even in environments with potential signal interference. This technology is based on a Nordic master chip for enhanced endurance and responsiveness.

latency Smart Speed X

VXE's self-developed transmission technology, deeply researched based on Nordic master chip, doubles low latency and endurance, creating the ultimate gaming weapon.



Smart Speed X Wireless Transmission Technology
Low latency, one step ahead; even in strong signal interference environments, it operates smoothly.



Image 3.3: Graphic illustrating the Smart Speed X self-developed transmission technology, emphasizing low latency and endurance for gaming. This image explains the advanced wireless capabilities of the mouse.

3.4 Programmable Buttons

The ATK VXE Dragonfly R1 SE+ features programmable buttons. Use the V HUB software to assign custom functions, macros, or key remappings to these buttons for a personalized gaming experience.

4. MAINTENANCE

4.1 Cleaning

The mouse features a smooth ice-feeling coating that is dirt-resistant and easy to clean. To clean your mouse, use a soft, dry cloth. For stubborn dirt, slightly dampen the cloth with water or a mild cleaning solution. Avoid using harsh chemicals or abrasive materials.

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 4.1: Visual representation of the mouse's smooth ice-feeling coating, highlighting its dirt-resistant and easy-to-clean properties. This image demonstrates the texture and finish of the mouse surface.

4.2 Battery Care

To maximize battery life, avoid fully discharging the mouse frequently. Charge the mouse when the battery indicator shows low power. Store the mouse in a cool, dry place when not in use for extended periods.

5. TROUBLESHOOTING

5.1 Connectivity Issues

- 2.4G Wireless:** Ensure the USB receiver is securely plugged into a working USB port. Check that the mouse is switched to 2.4G mode. Try plugging the receiver into a different USB port.
- Bluetooth:** Verify Bluetooth is enabled on your computer and the mouse is in Bluetooth pairing mode. Remove and re-pair the device in your computer's Bluetooth settings.
- Wired:** Ensure the USB-C cable is properly connected to both the mouse and the computer. Try a different USB port or cable if issues persist.

5.2 DPI/Polling Rate Not Responding

- Ensure the V HUB software is installed and up to date.
- Restart the V HUB software and the mouse.
- Check for any conflicting software that might be overriding mouse settings.

5.3 Charging Problems

- Confirm the USB-C cable is fully inserted into both the mouse and the power source (computer USB port or wall adapter).
- Try a different USB-C cable or USB port.
- Ensure the power source is active and providing sufficient power.

6. SPECIFICATIONS

Below are the key specifications for the ATK VXE Dragonfly R1 SE+ Wireless Gaming Mouse, along with a comparison to other models in the R1 Series.



Image 6.1: Internal view and weight breakdown of various ATK R1 Series mice, including the R1 SE+. This image illustrates the lightweight design and internal components like the PAW3395/SE sensor and 2.4G storage compartment.

Feature	ATK R1 SE+	Other R1 Series Models (General)
Product Dimensions	4.72 x 2.51 x 0.1 inches	Varies slightly by model
Item Weight	1.94 ounces (55g)	48g (R1 Pro) to 54g (R1 Pro Max)
Sensor	PAW3395 SE (up to 18,000 DPI)	PAW3395 (up to 26,000 DPI)
Polling Rate	125–2,000Hz	125–4,000Hz (R1 Pro & Pro Max)
Connectivity	2.4G Wireless, Bluetooth, Wired USB-C	Tri-Mode (R1 SE, R1, R1 NearLink), Dual-Mode (R1 Pro, R1 Pro Max)
Battery Life (1000Hz)	~70–75 hours	~40 hours (R1), ~75 hours (R1 Pro), ~150 hours (R1 Pro Max)
Microswitches	Huanuo Blue Glow V2	Huanuo Ice Berry Pink Dot, Kailh White Blade
Special Features	Lightweight, Programmable Buttons, Rechargeable	Similar across series

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)						

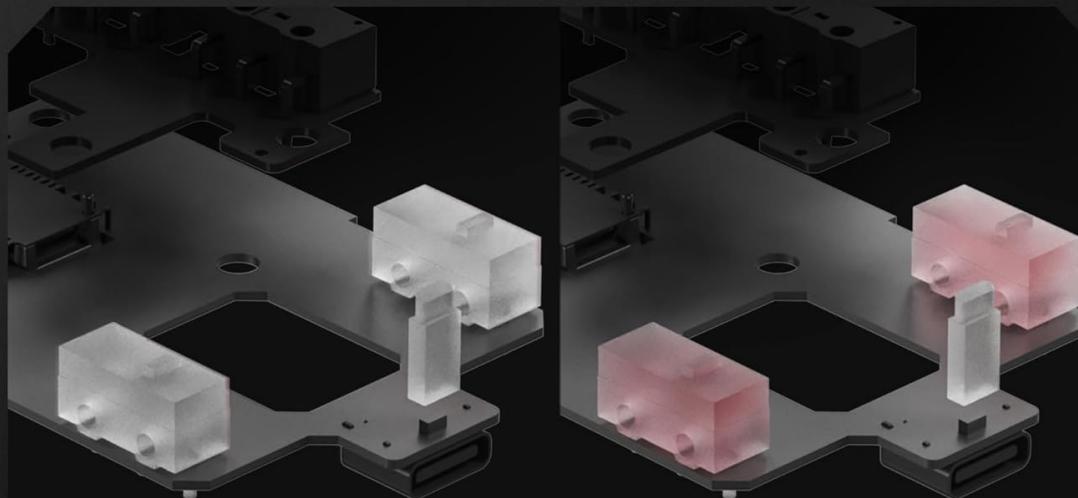
Image 6.2: A comprehensive table outlining the product name, model, dimensions, coating, sensor, chip, transmission technology, polling rate, battery, operating battery life, weight, microswitch, scroll wheel, mouse feet, connection method, and 2.4G receiver for various VXE Dragonfly R1 Series models.

6.1 Microswitches

The R1 SE+ model features Huanuo Blue Glow V2 microswitches. Other models in the R1 series may use Huanuo Ice Berry Pink Dot or Kailh White Blade switches, offering different tactile feedback and lifespan characteristics.

Switch Kailh White Blade/ Ice Berry Pink Dot

Soft/Balanced Feel, Long Lifespan, Suitable for Prolonged Use



Kailh White Blade
100 Million
Click Lifespan

Balanced Feel, Comfortable Feedback, Gaming Weapon

Ice Berry Pink Dot
90 Million
Click Lifespan

Soft Bounce Feel, Long-lasting Comfort

Image 6.3: Detailed view of Kailh White Blade and Ice Berry Pink Dot microswitches, highlighting their design and specifying their click lifespans (100 Million and 90 Million clicks, respectively). This image provides insight into the durability and feel of the mouse's buttons.

7. WARRANTY AND SUPPORT

Your ATK VXE Dragonfly R1 SE+ Wireless Gaming Mouse comes with a product warranty. Please refer to the included 'Product Warranty Certificate' for specific terms and conditions regarding warranty coverage and duration.

For technical support, troubleshooting assistance, or warranty claims, please contact ATK customer service through their official website or the contact information provided in your product documentation. Keep your proof of purchase for warranty validation.

