Sky Viper 18378

Sky Viper Fury Stunt Drone User Manual

Model: 18378

1. Introduction

This manual provides essential instructions for the safe operation, setup, and maintenance of your Sky Viper Fury Stunt Drone. Please read this manual thoroughly before operating the drone to ensure proper function and to prevent damage or injury.

2. What's in the Box

Carefully unpack all components and verify that you have received the following items:

- Sky Viper Fury Stunt Drone
- 3.7V 650mAh Lithium Polymer Battery (for drone)
- Controller
- One Set of Extra Blade Guards
- Charging Cable
- 4 Screws
- Screwdriver
- Instruction Manual (this document)

Image 2.1: Contents of the Sky Viper Fury Stunt Drone package, including the drone, controller, and retail box.

3. Setup

3.1 Battery Installation and Charging

1. **Drone Battery:** Insert the included 3.7V 650mAh lithium polymer battery into the drone's battery compartment. Ensure it is securely connected.
2. **Controller Batteries:** The controller requires 3 AAA batteries (not included). Open the battery compartment on the back of the controller, insert the batteries according to the polarity indicators, and close the compartment.
3. **Charging the Drone Battery:** Connect the drone's battery to the charging cable, then connect the charging cable to a USB power source. The charging indicator will show the charging status. Allow approximately 60-90 minutes for a full charge.

3.2 Propeller and Blade Guard Installation

The drone comes with pre-installed propellers. If replacement is needed or if you wish to install blade guards:

- **Blade Guards:** Attach the included blade guards to the drone's arms using the provided screws and screwdriver. Ensure they are firmly secured to protect the propellers during flight.
- **Propeller Replacement:** If a propeller is damaged, carefully remove it and replace it with a new one from a spare set (if available). Ensure the correct propeller type (A or B) is installed on the corresponding motor.

Image 3.1: Close-up view of the Sky Viper Fury Stunt Drone and its controller, showing details of the drone's structure.

4. Operating Instructions

4.1 Power On and Pairing

1. Turn on the drone by pressing the power button. The LED lights will begin to flash.
2. Turn on the controller. The controller's indicator light will flash.
3. Move the left joystick (throttle) fully up, then fully down. The drone and controller lights will become solid, indicating successful pairing.

4.2 Calibration

For stable flight, calibrate the drone before each flight or if it drifts. Place the drone on a flat, level surface. Refer to the quick start guide for specific calibration stick commands, typically involving holding both joysticks to a specific corner.

4.3 Basic Flight Controls

The Sky Viper Fury Stunt Drone features Surface Scan Technology and improved auto-hover for simplified flight control.

- **Launch/Land Button:** Press this button for automatic takeoff and landing.
- **Left Joystick (Throttle/Yaw):** Controls altitude (up/down) and rotation (left/right).
- **Right Joystick (Pitch/Roll):** Controls forward/backward movement (pitch) and left/right strafing (roll).

Image 4.1: Diagram illustrating the Sky Viper Fury Stunt Drone's features, including 360-degree flips, one-touch stunts, and auto-pilot stages.

4.4 Surface Scan Technology and Auto-Hover

The drone utilizes Surface Scan technology for enhanced stability. A tiny camera sensor on the underside tracks and analyzes surface patterns at nearly 200 times per second. This optical flow process, combined with a built-in barometer, allows the drone to maintain its position and hover with ease, making it simpler to fly in any horizontal direction using a single stick.

Image 4.2: Visual explanation of Surface Scan Optical Ground Tracking, showing how the drone uses a sensor to maintain position hold.

4.5 One-Touch Stunts

The Sky Viper Fury Stunt Drone is capable of performing eight visually impressive one-touch stunts. To activate a stunt, press the dedicated stunt button on the controller and then move the right joystick in the desired direction (e.g., forward for a front flip, left for a barrel roll).

4.6 Dual Flight Modes

The drone offers two flight modes:

- **Normal Mode:** Provides stable and forgiving flight characteristics, ideal for beginners and indoor use.
- **Sport Mode:** Increases responsiveness and speed, suitable for experienced pilots and outdoor flying.

Switch between modes using the 'NORMAL/SPORT' button on the controller.

5. Maintenance

5.1 Propeller Care

- Regularly inspect propellers for cracks, bends, or damage. Replace any damaged propellers immediately to ensure stable flight.
- Ensure propellers are clean and free from debris (hair, dust, grass) that could impede rotation.

5.2 Battery Care and Storage

- Always use the provided charging cable.
- Do not overcharge or completely discharge the battery.

- Store the battery in a cool, dry place away from direct sunlight and extreme temperatures.
- If storing for extended periods, charge the battery to approximately 50% capacity.

5.3 General Cleaning

Use a soft, dry cloth to clean the drone and controller. Avoid using harsh chemicals or solvents. Do not immerse the drone or controller in water.

6. Troubleshooting

Problem	Possible Cause	Solution
Drone does not power on.	Drone battery is not charged or not connected.	Charge the drone battery fully and ensure it is properly connected.
Controller does not power on.	Controller batteries are dead or incorrectly installed.	Replace AAA batteries in the controller, ensuring correct polarity.
Drone does not pair with controller.	Pairing sequence not followed correctly.	Ensure both drone and controller are on, then perform the joystick up/down pairing sequence.
Drone drifts or flies erratically.	Drone not calibrated; damaged propellers; strong wind (outdoor).	Perform calibration on a flat surface. Inspect and replace damaged propellers. Avoid flying in windy conditions.
Short flight time.	Battery not fully charged; aging battery.	Ensure battery is fully charged. Consider replacing the battery if it's old and capacity has diminished.
Stunts not performing correctly.	Insufficient altitude; incorrect button sequence.	Ensure drone has enough altitude (at least 6-10 feet). Press stunt button then immediately move joystick in desired direction.

7. Specifications

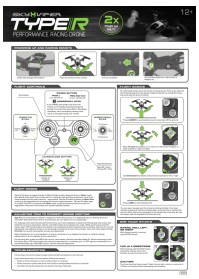
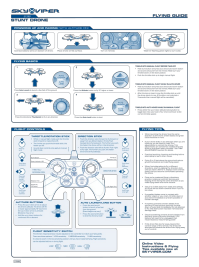
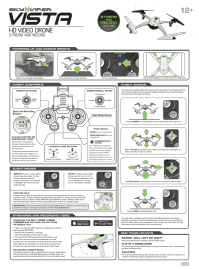
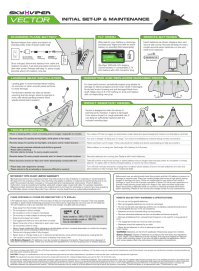
- **Brand:** Sky Viper
- **Model Name:** Sky Viper FURY Stunt Drone
- **Model Number:** 18378
- **Color:** Black/Green
- **Product Dimensions:** 13.5"L x 3"W x 11.5"H
- **Item Weight:** 1 pound (16 ounces)
- **Material:** Plastic
- **Battery:** 3.7V 650mAh Lithium Polymer (included)
- **Controller Batteries:** 3 AAA (not included)
- **Connectivity Technology:** Wi-Fi
- **Control Type:** Remote Control
- **Skill Level:** Beginner
- **Manufacturer Recommended Age:** 12 years and up

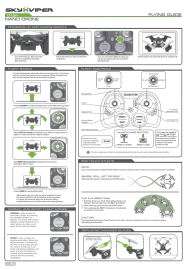
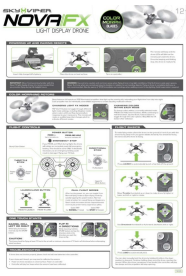
- **Optical Sensor Technology:** CMOS (for Surface Scan)
- **UPC:** 816322019435, 810017183784
- **Manufacturer:** Skyrocket
- **Release Date:** June 21, 2023

8. Warranty and Support

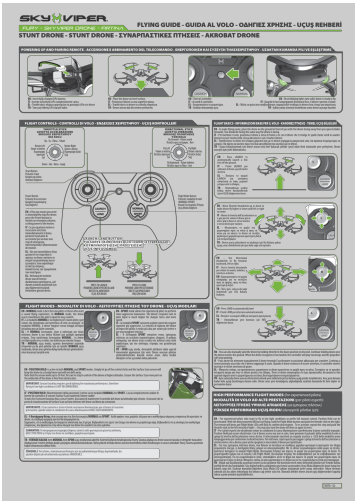
For warranty information and customer support, please refer to the documentation included with your purchase or visit the official Sky Viper website. The manufacturer, Skyrocket, typically provides details regarding product warranties and service options.
A digital version of this user manual may also be available for download from the manufacturer's support page or via this direct link: Sky Viper Fury Stunt Drone User Manual (PDF)

Related Documents - 18378

	Sky Viper Type R Performance Racing Drone User Manual Comprehensive guide to operating the Sky Viper Type R Performance Racing Drone, including setup, flight controls, flight modes, troubleshooting, and safety precautions.
	Sky Viper 01599 Stunt Drone Flying Guide Comprehensive flying guide for the Sky Viper 01599 Stunt Drone, covering setup, flight controls, basic maneuvers, advanced stunts, troubleshooting, battery care, and safety precautions.
	Sky Viper Vista HD Video Drone: User Manual and Operation Guide Comprehensive guide to operating the Sky Viper Vista HD Video Drone, covering setup, flight controls, flight modes, video streaming, and safety precautions. Learn how to pair the remote, launch, land, and perform stunts with your drone.
	Sky Viper Vector Drone: Initial Setup and Maintenance Guide A comprehensive guide to setting up, maintaining, and flying the Sky Viper Vector drone, including battery charging, landing gear installation, prop replacement, troubleshooting, and flight controls.

	Sky Viper Dash Nano Drone: Setup, Flight, and Safety Guide Comprehensive guide to setting up, flying, and maintaining your Sky Viper Dash Nano Drone. Learn about flight modes, controls, stunts, battery care, and safety precautions.
	Sky Viper Nova FX Light Display Drone User Manual and Guide Comprehensive user manual for the Sky Viper Nova FX Light Display Drone, covering setup, flight controls, color morphing rotors, stunts, troubleshooting, and safety precautions.

Documents - Sky Viper – 18378



[pdf] Guide

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