

VILTROX Spark Z3-N

VILTROX Spark Z3-N TTL Flash for Nikon Instruction Manual

1. INTRODUCTION

This manual provides detailed instructions for the safe and effective use of your VILTROX Spark Z3-N TTL Flash for Nikon cameras. Please read this manual thoroughly before operating the device and retain it for future reference.

The VILTROX Spark Z3-N is a compact and powerful on-camera flash designed for Nikon systems, featuring TTL auto mode, manual control, and a high-capacity rechargeable battery.

2. SAFETY INFORMATION

- Do not disassemble or modify the flash unit. Unauthorized repairs can lead to electric shock or malfunction.
- Keep the device away from water and moisture to prevent electric shock or fire.
- Avoid direct eye exposure to the flash light, especially at close range, as it can cause temporary vision impairment.
- Use only the specified charging cable and power adapter to charge the battery.
- Do not operate the flash in environments with flammable gases or liquids.
- Store the flash in a cool, dry place when not in use.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- VILTROX Spark Z3-N Flash Unit
- Soft Cover (Diffuser)
- USB Type-C Charging Cable (not explicitly listed but implied by Type-C port)
- Instruction Manual (this document)



Image: Top view of the VILTROX Spark Z3-N flash, highlighting its compact design and visible internal components.



Image: Side view of the VILTROX Spark Z3-N flash, detailing the charging port, trigger mode switch, and battery indicator.

- **Flash Head:** Emits light.

- **Hot Shoe Mount:** Connects to the camera's hot shoe.
- **Mode Dial (A/M):** Selects between TTL Auto and Manual flash modes.
- **Power Adjustment Dial (Full 1/2...):** Adjusts flash output in Manual mode.
- **S1/OFF/S2 Switch:** Controls optical slave modes and power.
- **Type-C Charging Port:** For recharging the internal battery.
- **Power Indicator/Ready Light:** Shows power status and flash readiness.

5. SETUP

5.1 Battery Charging

The VILTROX Spark Z3-N features a built-in 3.7V/1800mAh rechargeable lithium battery. Before first use, fully charge the battery.

1. Connect the provided USB Type-C cable to the flash unit's Type-C charging port.
2. Connect the other end of the cable to a 5V/2A USB power adapter (not included).
3. The charging indicator will show the charging status. A full charge takes approximately 70 minutes.
4. Once fully charged, disconnect the cable.

The flash automatically enters sleep mode after 15 minutes of inactivity to conserve battery life.

5.2 Mounting to Camera

The flash unit is designed to mount onto a camera's hot shoe.

1. Ensure both the camera and flash are powered off.
2. Slide the flash's hot shoe mount into the camera's hot shoe slot until it clicks into place.
3. Tighten the locking ring on the flash unit to secure it firmly to the camera.



Image: The VILTROX Spark Z3-N flash securely attached to a Nikon camera's hot shoe.



Image: Detail of the hot shoe mount, showing the contacts for communication with the camera.

5.3 Attaching the Softbox

The included soft cover acts as a diffuser to soften the flash light.

1. Gently slide the soft cover over the flash head until it fits snugly.
2. Ensure the soft cover is securely attached to prevent it from falling off during use.



Image: The VILTROX Spark Z3-N flash with its softbox diffuser attached, ready for use.

6. OPERATING MODES

The VILTROX Spark Z3-N offers various operating modes to suit different photographic needs.

6.1 TTL Auto Mode (A)

In TTL (Through-The-Lens) mode, the flash automatically adjusts its output based on the camera's metering system, providing optimal exposure for your subject.

- Set the mode dial on the flash to 'A' (Auto).
- Ensure your camera's flash settings are configured for TTL operation.
- The flash will fire with appropriate power for balanced exposure.

6.2 Manual Mode (M)

Manual mode allows precise control over the flash output, ideal for consistent lighting in controlled environments.

- Set the mode dial on the flash to 'M' (Manual).
- Use the power adjustment dial to select the desired flash output, ranging from 1/1 (full power) to 1/64.
- Adjust camera settings (aperture, ISO) to achieve the desired exposure in conjunction with the manual flash power.

6.3 S1 Synchronous Trigger Mode

S1 mode is an optical slave mode where the flash fires in response to another flash, without pre-flash suppression.

- Set the S1/OFF/S2 switch to 'S1'.
- The flash will trigger when it detects the main flash from another unit. This is suitable for main flashes that do not emit a pre-flash.

6.4 S2 Pre-flash Suppression Mode

S2 mode is an optical slave mode designed for use with main flashes that emit a pre-flash for TTL metering.

- Set the S1/OFF/S2 switch to 'S2'.
- The flash will ignore the pre-flash from the main unit and fire on the second, actual flash.

7. MAINTENANCE

- Clean the flash unit with a soft, dry cloth. Do not use solvents or abrasive cleaners.
- Keep the hot shoe contacts clean and free from dust or debris.
- When not in use for extended periods, store the flash in a protective case and charge the battery periodically to maintain its health.
- Avoid extreme temperatures and high humidity.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Flash does not fire.	Low battery; Flash not powered on; Incorrect mode; Loose hot shoe connection.	Charge battery; Power on flash; Select correct mode (A or M); Re-seat and tighten flash on hot shoe.
Flash output is too weak/strong.	Incorrect manual power setting; TTL metering issue.	Adjust manual power dial; Check camera's exposure compensation or flash exposure compensation.
Optical slave (S1/S2) not triggering.	Incorrect S1/S2 setting; Main flash too far or obstructed; Main flash type incompatible.	Ensure correct S1/S2 mode; Reduce distance or clear obstructions; Verify main flash compatibility (e.g., pre-flash for S2).
Flash not charging.	Faulty cable/adapter; Charging port issue.	Try a different USB Type-C cable and 5V/2A adapter; Contact customer support if issue persists.

9. SPECIFICATIONS

Feature	Detail
Model	Spark Z3-N
Guide Number (GN)	GN16 (ISO 100)
Flash Output	26W/s
Color Temperature	5600K
Power Adjustment	7 levels (1/1 to 1/64)
Recycle Time	1 second
Battery	3.7V/1800mAh rechargeable lithium battery (included)


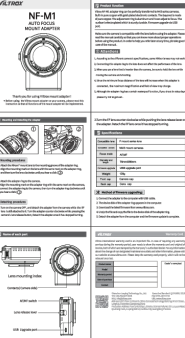
Feature	Detail
Flashes per Charge	Up to 650 (full power)
Charging Port	Type-C (5V/2A)
Charging Time	Approx. 70 minutes
Trigger Modes	TTL (A), Manual (M), S1, S2
Product Dimensions	3 x 2.6 x 2.2 inches (7.6 x 6.6 x 5.6 cm)
Item Weight	9.2 ounces (260 grams)




10. WARRANTY AND SUPPORT

VILTROX products are covered by a limited warranty. For specific warranty terms and conditions, please refer to the warranty card included in your product packaging or visit the official VILTROX website. For technical support, troubleshooting assistance, or service inquiries, please contact VILTROX customer service through their official channels.

Please retain your proof of purchase for warranty claims.

Related Documents - Spark Z3-N

<div><div>VILTROX</div><div><div>Spark Z3-C</div><div>Spark Z3-S</div><div>Spark Z3-N</div><div>Spark Z3-F</div></div><div><div>Thank you for using Viltrox Flashlight!</div><div>* Please read the user manual for your camera.</div><div>please read this before using it to make the most of</div><div>flashlight.</div></div><div>123</div></div>	<div><div>Viltrox Spark Z3 Series Camera Flash User Manual</div><div>User manual for the Viltrox Spark Z3-C, Z3-S, Z3-N, and Z3-F camera flashes, detailing warnings, parts, operation modes, indicators, and technical specifications.</div></div>
<div><div></div></div>	<div><div>Viltrox AF 23mm f/1.4 XF and Z Mount Camera Lens Specifications</div><div>Comprehensive technical specifications, features, and performance data for the Viltrox AF 23mm f/1.4 camera lenses designed for Fujifilm X and Nikon Z mounts, including MTF charts and optical design details.</div></div>
<div><div></div></div>	<div><div>Viltrox NF-M1 Auto Focus Mount Adapter User Manual</div><div>Comprehensive user manual for the Viltrox NF-M1 Auto Focus Mount Adapter, detailing its functions, specifications, installation, and firmware update procedures for M4/3 cameras with Nikon F mount lenses.</div></div>

 <p>VILTROX Vintage Z1+</p> <p>Thank you for using Viltrox Flashlight! * Before using the product, please read the manual carefully to ensure safe use.</p> <p>102</p>	<p>Viltrox Vintage Z1+ Camera Flash User Manual</p> <p>Comprehensive user manual for the Viltrox Vintage Z1+ camera flash, detailing safety precautions, parts identification, indicator lights, operation instructions, triggering modes, and technical specifications.</p>
 <p>VILTROX AF 33mm f/1.4</p> <p>103</p>	<p>Viltrox AF 33mm f/1.4 Camera Lens User Manual and Specifications</p> <p>Comprehensive user guide and technical specifications for the Viltrox AF 33mm f/1.4 prime lens, covering Fujifilm X, Sony E, and Nikon Z mounts. Includes optical performance data and lens feature descriptions.</p>
 <p>VILTROX AF 135/1.8 LAB Z Z-mount</p> <p>Thank you for choosing Viltrox Lens! Before using the lens, please read the manual carefully to ensure safe use.</p> <p>104</p>	<p>VILTROX AF 135/1.8 LAB Z Lens: Features, Specifications, and Manual</p> <p>Comprehensive guide to the VILTROX AF 135/1.8 LAB Z Z-mount camera lens, covering features, identification of parts, functions, handling, safety, and technical specifications.</p>