FREEWAVE STRYKER

LIGHTNING/MOTION TRIGGER

USER MANUAL

VELLO™

THANK YOU FOR CHOOSING VELLO

The Vello FreeWave Stryker for Canon and Nikon is a 2-in-1 solution for intense light and infrared (IR) image triggering. In Lightning mode, the device will trigger your camera's shutter release within approximately 0.1 milliseconds after a lightning burst reaches the sensor, allowing you to capture striking images of storms or fireworks. Motion mode sets the device to trigger your camera once the unit detects movement using the IR motion sensor. This is ideal for taking remote, candid shots of passing humans or wildlife.

FEATURES

- **Detects lightning and IR heat motion**
  Triggers your camera approximately 0.1 milliseconds after detection

- **Portable**
  Compact and lightweight

- **Easy to use**
  Streamlined design for simple operation

COMPATIBLE DEVICES

The Vello FreeWave Stryker transmitter comes in a Nikon or Canon kit. The device can also be used with other cameras by using the appropriate cables. See included cable compatibility insert.
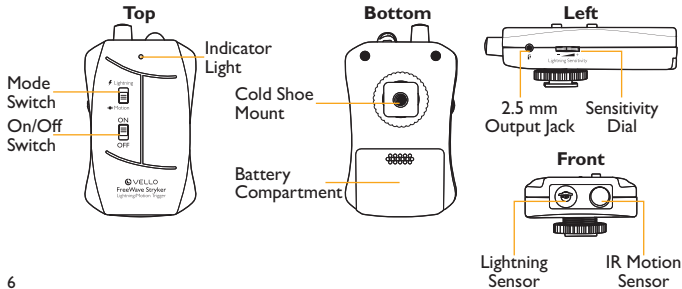
PRECAUTIONS

- Please read and follow these instructions and keep this manual in a safe place.

- Lightning is very dangerous. Stay in a safe place in a storm area.

- Do not operate the unit in the presence of flammable gas or vapors.

- There are no user-serviceable parts inside the devices. Do not attempt to disassemble or perform any unauthorized modification.

- Turn off the power of the camera before inserting or removing the transmitter.

- Clean the unit with a soft, dry cloth.

- Keep out of reach of children. This device contains small parts which may pose a choking hazard.

- Observe caution when handling batteries. Batteries may leak or explode if improperly handled. Use only the batteries listed in this manual. Make certain to align the battery with the correct polarity.

- Batteries are prone to leakage when fully discharged. To avoid damage to the product, be sure to remove the batteries when leaving the product unattended for prolonged periods or when no charge remains.

- Make sure the item is intact and that there are no missing parts.

- Handle the unit with care.

- Do not use or leave the devices in conditions of extreme heat, severe cold, or high humidity.

- Do not handle with wet hands or immerse in or expose to water or rain. Failure to observe this precaution could result in fire or electric shock.

- Dispose of used batteries, packaging, and old devices in accordance to appropriate local environmental regulations.

- All photos are for illustrative purposes only.

OVERVIEW

Top

Indicator Light

Mode Switch

On/Off Switch

Lightning

Motion

ON
OFF

VELLO
FreeWave Stryker
Lightning/Motion Trigger

Bottom

Cold Shoe Mount

Battery Compartment

Left

2.5 mm Output Jack

Sensitivity Dial

Lightning Sensitivity

Front

Lightning Sensor

IR Motion Sensor

CONTENTS

- Trigger

- 2 camera-compatible cables (Canon or Nikon)

- User manual

- Cable compatibility list

RCC-C1 and RCC-C2 with RC-LMC

RCC-N1 and RCC-N2 with RC-LMN

BEFORE YOU BEGIN
Installing the Batteries

The Vello FreeWave Stryker is powered by two AAA batteries. To install, remove the battery compartment door on the bottom of the unit. Insert the batteries with the correct orientation, as displayed within the compartment. Re-install compartment door to complete the process.

MOUNTING AND CONNECTING THE DEVICE

On-Camera or Bracket

The Vello FreeWave Stryker has a cold-shoe foot on the bottom of the unit. To mount the device to a camera or bracket, simply slide the shoe mount foot into a shoe-mount. Tighten the foot's locking ring to secure the device. Then connect the included shutter cable to the Stryker and camera ports [📷].

On a Light Stand

The Vello FreeWave Stryker has a 1/4"-20 threaded socket on the unit's cold-shoe foot. To secure the device to a light stand, simply screw it onto a compatible threaded post by turning it clockwise. Rotate the device until secure. Then connect the included shutter cable to the Stryker and camera ports [📷].

LIGHTNING TRIGGERING

An individual's trigger finger is not fast enough to detect and capture lightning as it strikes. With your Vello FreeWave Stryker in lightning triggering mode, your camera will automatically activate your camera's shutter within approximately 0.1 milliseconds of the trigger detecting a flash or burst of light.

For operation in lightning mode, point the device's sensor and camera in the direction of where you're expecting a lightning flash. Attach the camera and trigger to a tripod for best results. We recommend turning the trigger on before the camera after the two have been connected with a cable. Additionally, your camera's shutter speed should be set to a longer exposure.

To activate lightning triggering mode, move the mode switch to "Lightning". For best results, start at a 10 second exposure & adjust your camera's exposure settings while adjusting the Stryker's sensitivity using the dial on the left side of the unit. Set your camera / lens to manual focus.

Setting the Lightning Sensitivity

The Trigger is very sensitive and with any sudden flicker of light, it will fire the shutter. The sensitivity control adjusts the degree to which the sensor picks up on stimuli. The level of sensitivity varies for different conditions. To adjust the sensitivity, rotate the sensitivity dial on the left side of the device. Rotate the dial counter-clockwise and continue to turn the dial until the LED turns red. This indicates that you have passed the threshold that the device determines as the ideal setting in your current environment. Turn the dial clockwise slowly until the light turns off to find your optimized sensitivity setting, where a burst of light will cause it to trigger the camera.

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MOTION TRIGGERING

The unit's motion triggering mode uses a Passive Infrared (PIR) sensor. It detects movement of infrared (IR) sources, such as humans or animals, from up to five meters (16.4 feet) away, and smaller wildlife at closer range. When the sensor detects IR motion within its field of view (horizontal: 94°, vertical: 82°), it will trigger your camera's shutter.

To activate motion triggering mode, move the mode switch to "Motion."

For best results, adjust your camera's settings appropriate for your triggering situation before use. Mount the device and your camera on a light stand or tripod for stable triggering.

Note: Device cannot detect IR motion through a window.

Note: The sensitivity dial is not active when in motion mode.

SPECIFICATIONS

Lightning Response Time	Approximately 0.1ms
Motion Detection Range	Maximum 16.4' (5 m)
Motion Detection Area	Horizontal: 94°, Vertical: 82°, 64 zones
IR Temperature Detection[*]	± 39.2°F (4°C)
Power Source	2× AAA batteries (not included)
Dimensions	1.2 × 4.1 × 2.4" (3.3 × 10.5 × 6.1 cm)
Weight	1.9 oz. (53.7 g)

[*]Note: Detection can occur at a ranger superior to the above values depending on the target's speed and its temperature difference with its surroundings.

TROUBLESHOOTING

- Ensure the batteries are installed with the correct orientation as displayed within the battery compartment.

- If the trigger is triggering your camera without a reason, turn off any cell phones in the immediate vicinity.

- Ensure you are using the correct cable between your camera and the device.

- Ensure the cable is inserted into the correct port on your camera and the device.

- Ensure the device has the correct batteries installed, and installed correctly.

- Ensure the cable is fully inserted into the appropriate ports on your camera and the device.

- The device cannot detect stimuli through a window or other interferences. Make sure there is nothing blocking the sensors.

ONE-YEAR LIMITED WARRANTY

This VELLO product is warranted to the original purchaser to be free from defects in materials and workmanship under normal consumer use for one (1) year from the original purchase date or thirty (30) days after replacement, whichever occurs later. The warranty provider's responsibility with respect to this limited warranty shall be limited solely to repair or replacement, at the provider's discretion, of any product that fails during normal use of this product in its intended manner and in its intended environment. Inoperability of the product or part(s) shall be determined by the warranty provider. If the product has been discontinued, the warranty provider reserves the right to replace it with a model of equivalent quality and function.

This warranty does not cover damage or defect caused by misuse, neglect, accident, alteration, abuse, improper installation or maintenance. EXCEPT AS PROVIDED HEREIN, THE WARRANTY PROVIDER MAKES NEITHER ANY EXPRESS WARRANTIES NOR ANY IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. This warranty provides you with specific legal rights, and you may also have additional rights that vary from state to state.

To obtain warranty coverage, contact the Vello Customer Service Department to obtain a return merchandise authorization ("RMA") number, and return the defective product to Vello along with the RMA number and proof of purchase. Shipment of the defective product is at the purchaser's own risk and expense.

For more information or to arrange service, visit www.vellogear.com or call Customer Service at 212-594-2353.

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