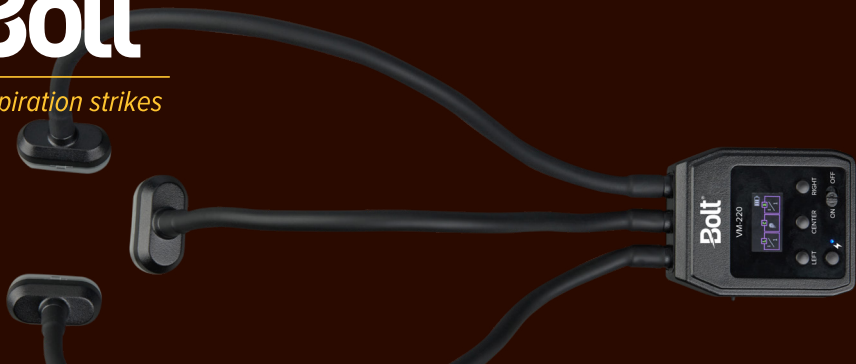




VM-220

FLEXIBLE MACRO FLASH

User Manual

Thank you for choosing Bolt.

The Bolt VM-220 features dual xenon flash units and an LED modeling light with flexible extension arms that help you illuminate and shoot close-up subjects for improved macro photography. Each flash offers eight power levels from 1/1 to 1/128, which can be set independently from each other or turned off. The center modeling light can be set to nine brightness levels or can be turned off, and automatically shuts off after 30 minutes to help save battery power. Charge the flash's internal battery with the included USB-C to USB-A cable and any 5 V / 2 A USB power source.

Each flash's flexible arm provides 14 inches of depth so you can get creative with lighting a subject and achieving the ideal focal distance with your macro lens. Swap out the clear diffusers with the included color diffusers to soften the light or create contrasting color to further enhance the look and feel of your photos.

Precautions



- Before using this product, please thoroughly read the following safety notices to ensure safe use and help prevent damage to your flash or injury to yourself and others.
- Do not fire the flash at close range directly into the eyes of people or animals. This can cause damage to the retina and may even lead to blindness.
- To avoid overheating and damaging your flash unit, please wait for at least ten minutes after twenty-five continuous flashes at full power.
- Do not disassemble or attempt to repair this product yourself. There are high-voltage components inside that can produce a hazardous electric shock.
- Keep this product and its batteries out of the reach of children.
- Use only the power sources specified in this manual.
- Do not clean this product with agents containing corrosive or flammable substances such as paint thinner, benzene, or nail-polish remover.
- Do not use or store this product in flammable conditions (such as environments containing flammable gases or liquid chemicals). This can damage the flash, start a fire, or cause an electric shock.
- This product is not water resistant. Keep it away from rain, snow, humidity, and general moisture.
- Do not drop or otherwise cause a strong physical impact to this product, as this can cause a malfunction that may cause it to explode or ignite.
- Images are for illustrative purposes only.

Overview

Top

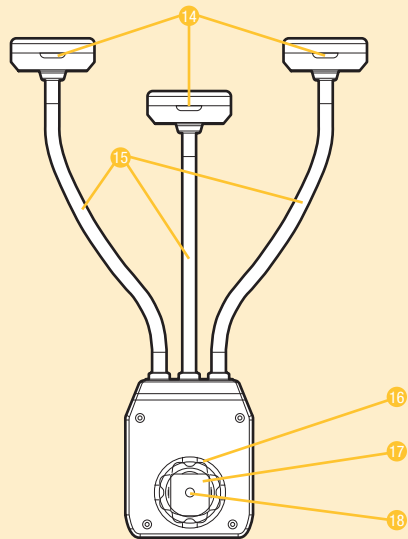
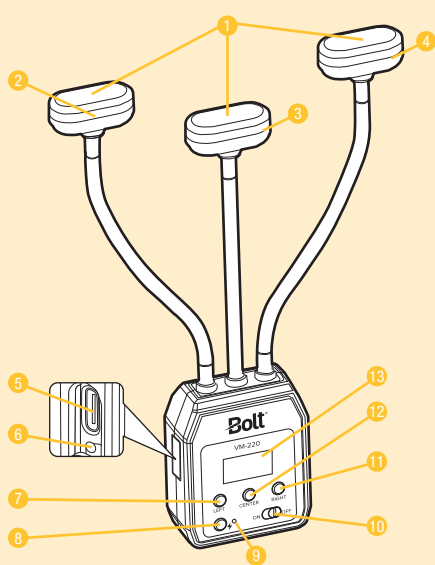
- 1 Clear diffuser × 3
- 2 Left xenon flash head
- 3 Modeling light
- 4 Right xenon flash head
- 5 USB-C charging port
- 6 Charging status LED
- 7 Left flash power selector
- 8 Test flash
- 9 Flash status LED
- 10 Power switch
- 11 Right flash power selector
- 12 Modeling light brightness selector
- 13 LCD

Bottom

- 14 Diffuser release notch
- 15 Flexible arms × 3
- 16 Foot locking wheel
- 17 Mounting foot
- 18 Central trigger pin

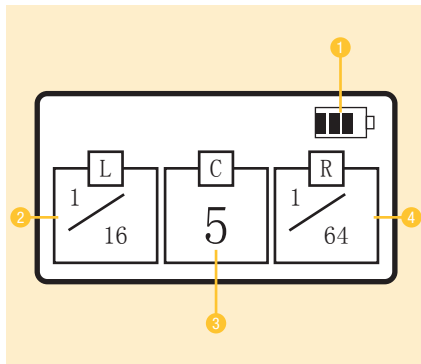
Included Accessories

- 12-piece color diffuser set × 2
- USB-C to USB-A cable
- Zippered carrying case



LCD

- 1 Battery level
- 2 Left flash power
- 3 Modeling light brightness level
- 4 Right flash power

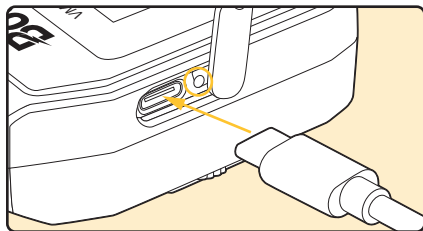


Charging the Battery

Use the included USB-C to USB-A charging cable. Plug one end into a 5 V / 2 A USB power source, and plug the other end into the USB-C charging port on the side of the unit.

● Solid red when charging

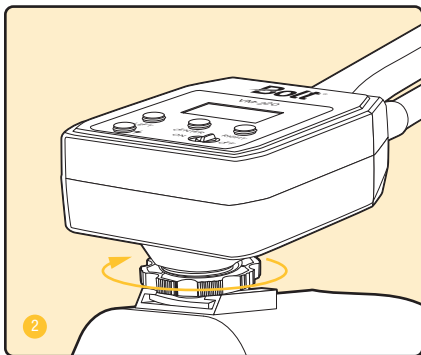
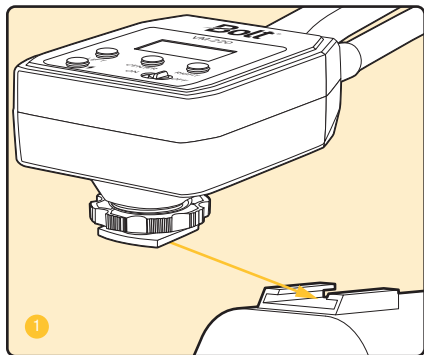
● Solid green when charged



Mounting the Flash

Note: Make sure your camera's hot shoe has a central trigger-pin connection.

1. Slide the mounting foot into your camera's hot shoe.
2. Rotate the locking wheel clockwise until secure.



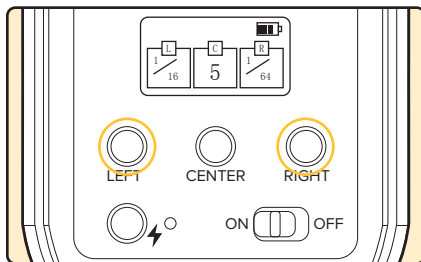
Setting the Flash Power

You can independently set each flash's power by repeatedly pressing the left and right selector buttons. There are eight levels from 1/1 to 1/128, and off.

Test Flash Button

Press the Test Flash button to fire off the flashes.

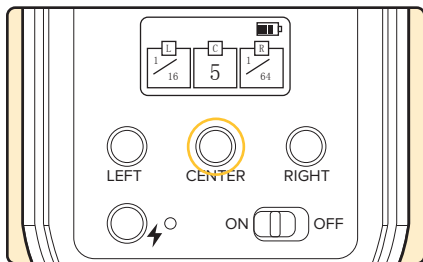
The flash status LED flashes blue () when there is low power and is solid blue () when charged.



Setting the Modeling Light Brightness

Adjust the modeling light brightness by repeatedly pressing the center selector button. There are nine levels from 1 to 9, and off.

Note: There is an automatic shutoff after 30 minutes of inactivity.



Specifications

Flash Power	GN12 / group
LED Power	2 W
Battery Power	3.7 V / 2000 mAh
Automatic Shutoff	30 seconds
USB Charging Input	5 V / 2 A
Color Temperature	6500 K
Working Temperature	-4°F to 140°F (-20°C to 60°C)
Storage Temperature	-22°F to 149°F (-30°C to 65°C)
Dimensions	17.7 × 2.4 × 1.8 in. (45 × 6 × 4.6 cm)
Weight	0.6 lb. (268 g)

FCC Compliance

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

One-Year Limited Warranty

This BOLT product is warranted to the original purchaser to be free from defects in materials and workmanship under normal consumer use for a period of 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 BOLT Customer Service Department to obtain a return merchandise authorization ("RMA") number, and return the defective product to BOLT 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.boltflashes.com or call Customer Service at 212-594-2353.

Product warranty provided by the Gradus Group.

www.gradusgroup.com

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