Bolt VM-160-V2 LED Macro Ring Light User Manual

VM-160-V2
LED MACRO RING LIGHT

User Manual

Contents

VM-160-V2 LED Macro Ring Light

Thank you for choosing Bolt
Thank you for choosing the Bolt VM-160-2 LED Macro Ring Light. This LED light combines a compact design withversatile features to give you both ease of use and creative lighting contol. I' great for shooting close-ups of flowers, insects, and products. Among the benefits you'll enjoy:

- Eight levels of brightness adjustment
- Left-and right-only ilumination
- Flashmode
- Automatic power-saving function

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 oranimals. This can cause damage to the retina and may even lead to biindness
- Do ot disassemble or attempt to repair this product Yourselr. There are high-voltage components inside that can produce a hazardous electric shock.
- Keep this product and s batteries out of the reach of children
- Use only the power sources specified n this manua,
- Aways sitchthe flash off before changing the batteries
- Aways install batteries of the same type, brand, and age.
  Do not combine differenttypes or brands, or old and new batteries. This can cause the batteries to leak, overheat or explode. Instal the bateries in the proper orientation, according to the indicator in the battery chamber.
  Installing batteries in the reverse orientation may cause them tolleak, overheat, or explode.
- 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, starta fire or cause an electic shock.
- This product is not water resistant. Keep it away from rain, snow, humidity, and general moisture.
- If you detect a burning smell, smoke, or excessive heat coming from the flash, immediately stop operation and remove the batteries to prevent the prodct from igniting or metting
- Do ot drop o athenwise cause a strong physical impact to this produdt, as this can cause a malfunction that may cause itto explode or ignite.
- If the product sustains physical damage, do not touch any exposed interior metal parts. I touched, they may generate an electric shock o cause a malfunction
  Promptly remove the batteries, and take the product to an authorized service center for epair
- For long-erm storage, remove all batteries from this product to prevent the product from igniting or leaking cortosive liquids.
- Do not store or use this prodct at temperatures above WUIF (65°C).
- Keep the metal contacts in the battery compartment clean and free of corrosion and dirt. Do ot touch them with your fingers. Corrosive elements on the contacts can damage this product and prevent it fom functioning properly. Contacts may be cleaned with isopropyl alcohol on cotton swab.
- Dispose of used batteries properly. Never heat them or throw them into a fire, as this can cause the batteries to Teak cortosive liquids, generate heat, of explode:
- Images are for ilustrative purposes only.

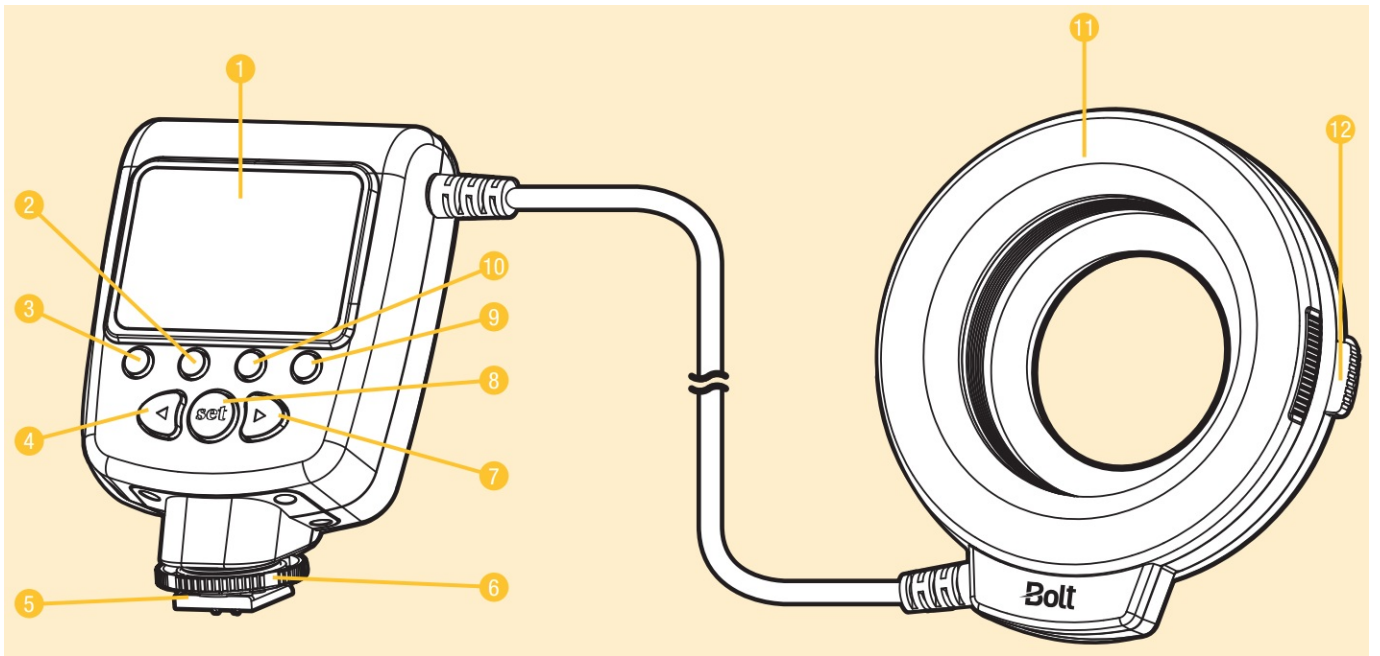## Overview

Power Control Unit

1. LCD
2. Mode button
3. Pilot button (Test)
4. Left navigation button
5. Mounting foot
6. Locking Wheel
7. Right navigation button
8. Set button
9. Power button
10. Light button

    LED Ring Light
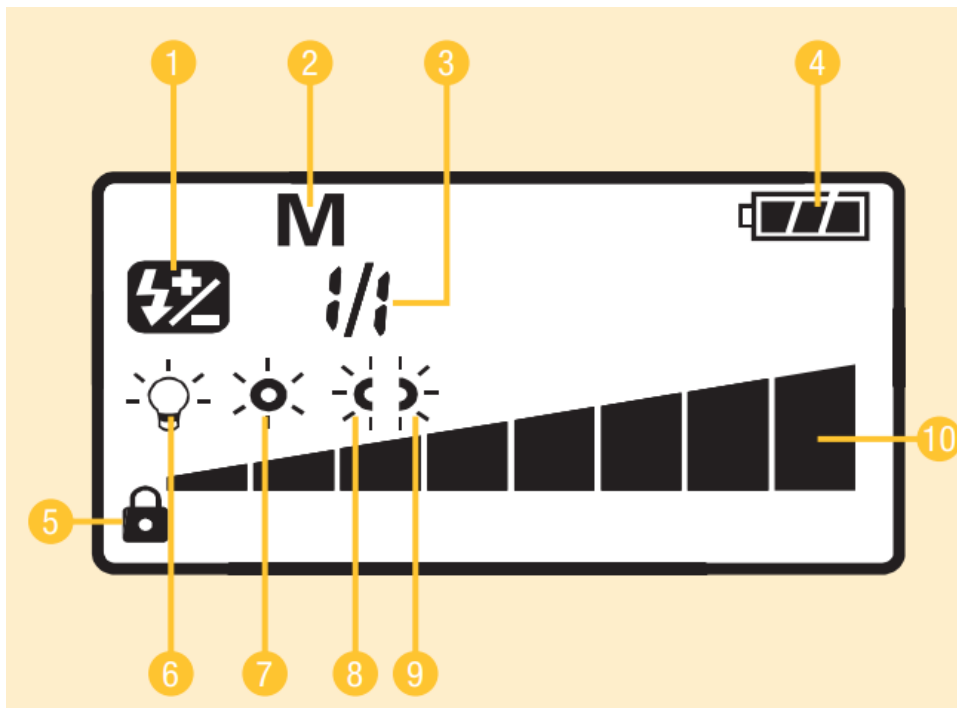11. LED
12. Lens adapter ring locks

Included Accessories

- Amber filter
- Eight adapter rings (40.5, 52, 55, 58, 62, 67,72, and 77 mm)

LCD

1. Exposure parameter
2. Manual mode
3. Flash output power
4. Battery capacity
5. Lock
6. Light mode
7. Full lash mode
8. Left flash mode
9. Right flash mode
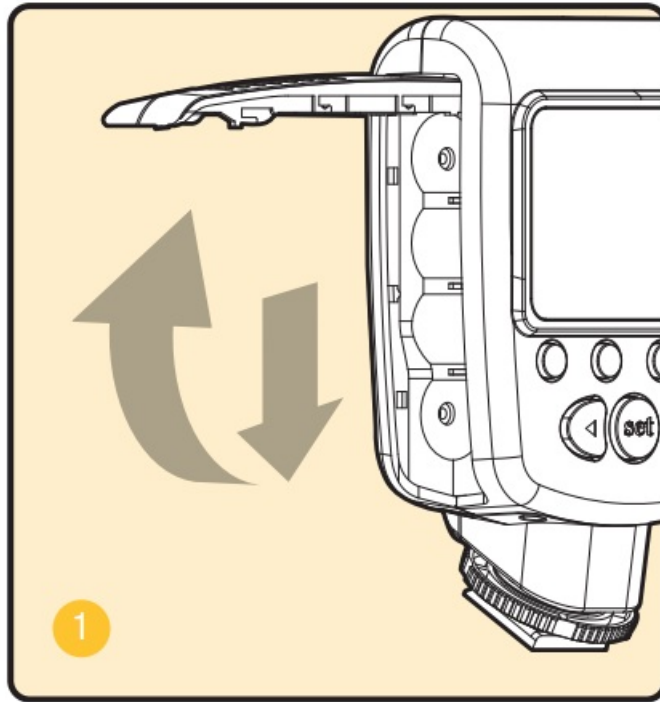10. Power level

Battery Installation

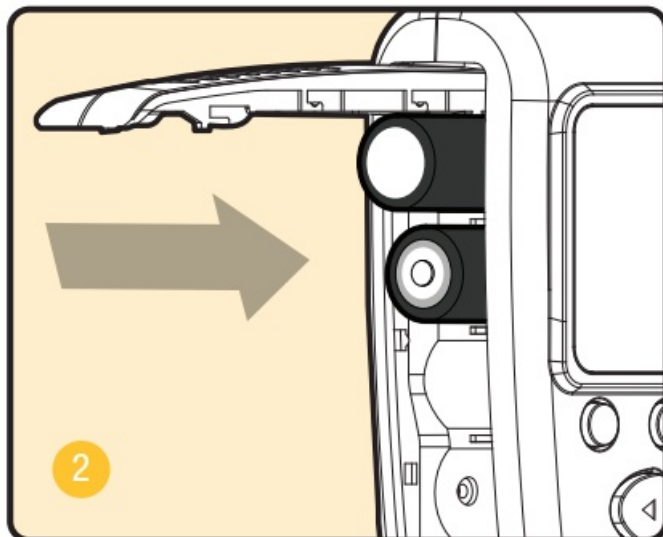The VM-160/2 can be poviered by four AA batteries of several types:

- Lithium (15 V)
- Nickel-metal hydride (NiMH) (1.2 V)
- Akaline (1.5 V)

Note: For the longest battery life, lithium or NiMH batteries are recommended.
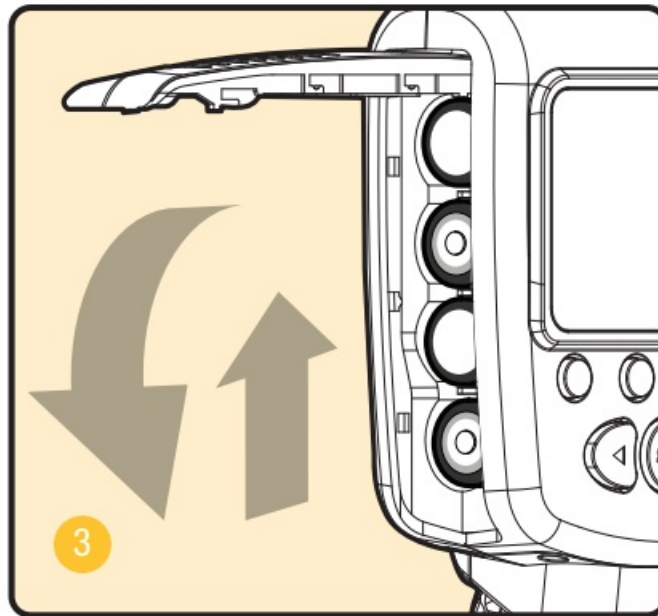To install batteries, make sure the VM-160-V2 is turned off, and follow these steps:

1. Press onthe battery compartment cover, and slide it in the direction of the arrow to open it.
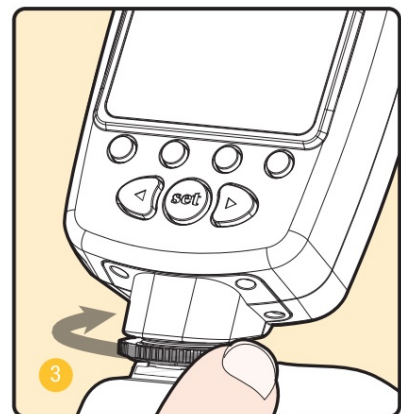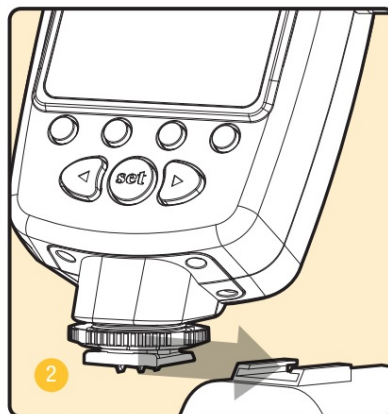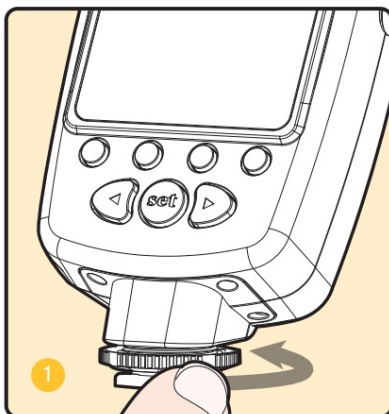

2. Insert batteries in the correct orientations.

3. Close the battery compartment cover.

Important! When battery power is low, the battery level indicator wil blink on the LCD. Replace all four batteries at the same time. Do not mix battery types or brands, or use old and new batteries together.
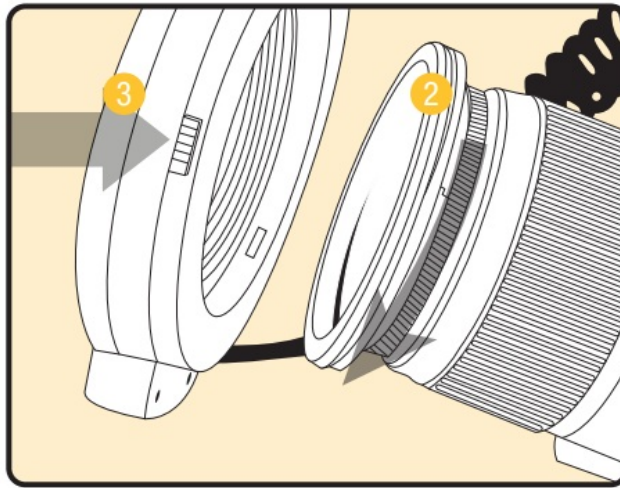
Mounting the Power Control Unit

1. Make sure the VM-160-V2 is turned off, and rotate the locking wheel counterclockwise to loosen it.
2. Slide the mounting foot al the way into your camera's hot shoe.
3. Rotate the locking wheel clockwise until secure.

Mounting the LED Ring Light

The LED ring light mounts onto your carmera's lens via one of the included adapter rings: 40.5, 52, 55, 58, 62, 67,72,and 77 mm.

1. Detemine the adapter ring size for your camera lens. The engraving on the ring should match your lens's fitter thread.
2. Screw the adapter ring onto your camera lens.
3. Press and hold both lens adaper ring locks and attach the ring light onto the lens adapter. Make sure the ring light is securely attached onto the lens adapter, and refease the locks.

Note: Make sure the Bolt logo is on the bottom of the ring light and facing away from the camera.
Important! Use manual focus as some lenses have front elements that rotate during autofocusing.

Operating the VM-160-V2

Power
Press and hold the Power button for 3 seconds untl the LCD on the power control unit turns on.
**Test Flash**
Fire a test by pressing the Pilot button. The fing light willflash once.

☀ Full Flash Mode
Full Flash uses all the ring light's LEDs and turns on for approximately half a second when the camera's shutter s released. Engage the Full Flash mode by pressing the Mode button repeatedly until the indicator appears on the LCD.

☀/☀ Left and Right Flash Mode
For more dramatic lighting, you can set your M-160-V2 to iluminate only from the et or right half of the LED ring light. To set your VMH0V2 to Leftor Right mode, press the Mode button repeatedly unti the ☀ or ☀ indicator appears on the LCD.

☀ Light Mode
Pressing Light mode will tum on the LEDs for continuous lighting. This is ideal for seeing exactly where the light will fall, as well s for shooting video.
Press the Light button so the indicator appears on the LCD.

▬▬▬██ Brightness Adjustment
You can adjust the brightness output of your VM-1602 with eight levels from 1/128, /64, 1/32, 116, U8, 114, 1/2,and 11, Adjust by pressing the Right or Left navigation buttons to increase or decrease the brightness. The onscreen powe level displays the current brightness output.
LCD Illumination
To illuminate the LCD, press the Set button. The LCD will illuminate for about 10 seconds.
Sleep Mode
After 30 seconds of inactivity,
the VM-160-V2 will automatically enter SL power-saving mode to conserve battery life. To reactivate the VM-160-V2, press the Power button or your camera's shutter-release button. During long periods of inactivity, use the Power button to turn the ring light off completely.

▭▰▰ Battery Level Indicator
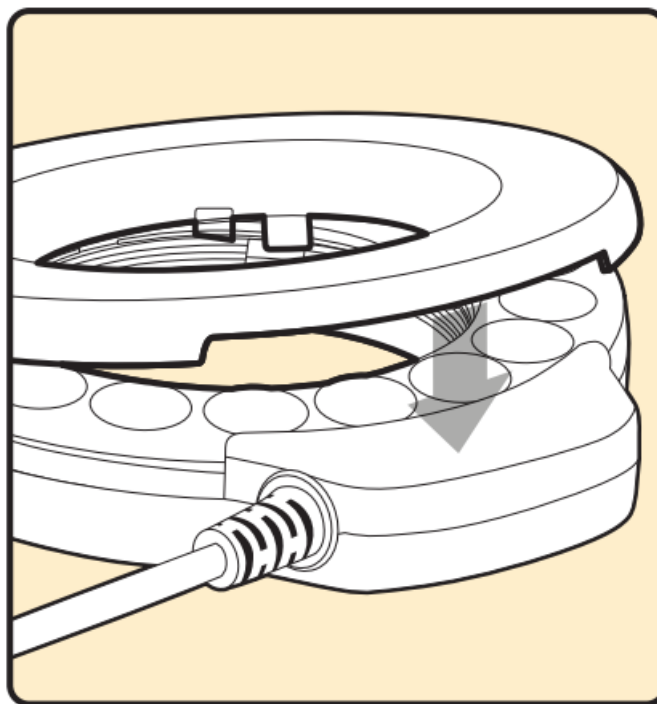The battery level indicator on the LCD shows the remaining battery power.
When switching from Light mode to a Flash mode, the power level indicator may rise to a higher level. This happens when the battery power is very low and indicates the batteries will have a longer effective life in Flash mode.

LCD Display Status	Battery Level
70%-100%	70%-100%
40%-69%	40%-69%
10%-39%	10%-39%
0%- 9%	0%- 9%

Attaching the Amber Filter

The VM-160-V2 comes with an amber fikter which modifies the light output and produces a warmer glow on your subject.
Match the fiter with the base of the ring light and press it on until secure.

Troubleshooting

Problem	Solution
The VM-160-V2 is stuck in the camera hot shoe.	Make sure the mounting foot lock is loosened.
The VM-160-V2 is turned on and is in Light mode but won't light up.	Make sure fresh batteries are installed and are in the proper orientation.
The VM-160-V2 is turned on and is in Flash mode but won't fire.	Make sure fresh batteries are installed and are in the proper orientation. Make sure the control unit is securely attached to the camera. Make sure the electrical contact on the foot of the control unit is not dirty. Clean it and try again.
The VM-160-V2 is rotating right or left while the camera is focusing.	Your lens has a rotating front element. Use manual focus.
The battery indicator fluctuates between full and empty when reinstalling the same batteries repeatedly.	This is normal and may happen when the batteries are nearly exhausted. Replace the batteries.

Specification

Mount	Standard hot shoe
Lens filter thread	40.5, 52, 55, 58, 62, 67, 72, and 77 mm
Color temperature	5500 K
Filter color temperature	3200 K
Exposure time	1/100 sec.
Power source	4x AA lithium, NiMH, or alkaline batteries
Dimensions (H x W x D)	Power control unit: 4.1 x 2.75 x 1.65 in. (104 x 70 x 42 mm) LED ring light: 4.8 x 4.6 x 0.8 in. (123 x 117 x 21 mm)
Weight (without batteries)	7.8 oz. (224 g)

One-Year Limited Warranty

This BOLT product is wartanted 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 o thirty (30) days after replacement, whichever occurs later. The warranty provider's responsiblity with respect o thislimited warranty shall b limited solely torepairor replacement, atthe provider' discretion, f any prodct that ail during norma use ofthis productin it ntended manner and i s intended environment

Inoperabilty of the product or part(s) shall be determined by the warranty provider. Ifthe product has been discortinued, the wartanty provider reserves the rightto replace it with a mode of equivalent quality and function.

This warranty does not cover damage or defect caused by misuse, neglect, accident, alteration, abuse, mproper 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 acitional rights that vary from state tostate.

To obtain wartanty coverage, contact the BOLT Customer Service Department to obtain a feturn merchandise authorization ("RMA") number, and retur the defective product to BOLT along with the RMA number and proof of purchase. Shipment of the defective
products at the purchaser's own sk and expense.

For more information or to arrange service,visit **www.bolflashes.com** or callCustomer Service at 212-594-2353. Product warranty provided by the Gradus Group.

Documents / Resources

	Bolt VM-160-V2 LED Macro Ring Light [pdf] User Manual VM-160-V2, VM-160-V2 LED Macro Ring Light, LED Macro Ring Light, Ring Light, Light

References

- ⚡ **Bolt | Flashes & Battery Packs**
- **G** **Gradus | Gradus Group**

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