



BG-N10

BATTERY GRIP


Designed for the Nikon
D600 and D610 SLR Camera



Introduction

Thank you for choosing Vello and congratulations on your new BG-N10 battery grip purchase. Enjoy the many benefits that a battery grip offers, such as extended shooting time and more control and comfort when shooting in a vertical (portrait) orientation.

The Vello BG-N10 is compatible with the Nikon D600 and D610 DSLR cameras. The BG-N10 accepts one Nikon EN-EL15 rechargeable battery, in addition to the camera's internal battery. Six AA batteries (alkaline, Ni-MH, lithium, or nickel-manganese) can be used instead for added convenience. The BG-N10 is equipped with an alternate shutter-release button, AE-L/AF-L button, multi selector, and main and sub-command dials for shooting in a vertical position.

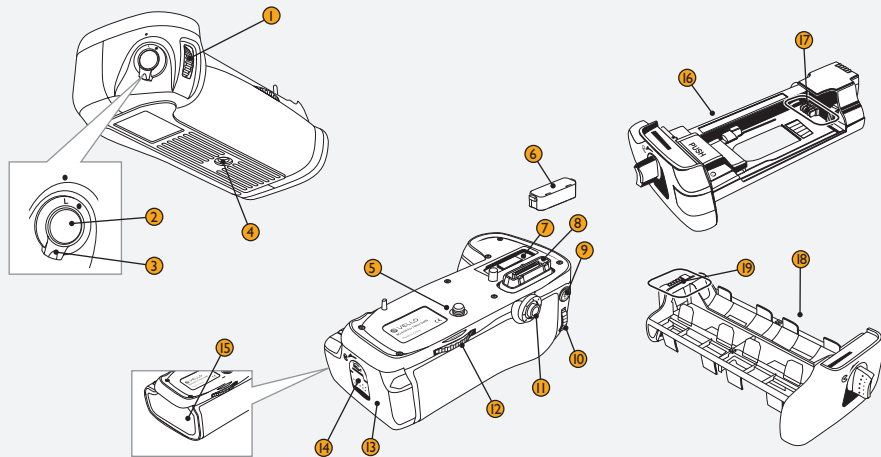


Please read through this entire manual before using the BG-N10 battery grip.

Precautions

1. The BG-N10 should only be used with compatible devices specified in this manual.
2. Use only with batteries and battery holders recommended in this manual. The BG-N10 can not be used with other batteries or battery holders.
3. When the BG-N10 is not attached to the camera, cover the power terminal with the contact cap. This prevents electrical shorts caused by metal coming into contact with the power terminals.
4. When the battery holder is removed from the grip, remove the batteries or place the holder in a container to prevent electrical shorts caused by contact with other metal objects.
5. The memory card access lamp may light up temporarily when the BG-N10 is mounted or removed from the camera. This is part of the normal operation.
6. If you notice smoke, noise, or an unusual smell from the battery pack, discontinue use immediately. Remove the batteries and take the device to a Vello authorized reseller.
7. The BG-N10 does not have a power switch. Instead, use the camera power switch to turn the power on or off.
8. The battery level may not display properly if batteries are inserted before mounting the grip.
9. Remove batteries from the grip when not in use.
10. Do not attempt to disassemble.
11. Avoid water or extreme humidity and keep in a dry and cool place.
12. Keep out of reach of children.

Overview



① Sub-Command Dial *

② Shutter-Release Button *

③ Control Lock Switch

To prevent accidental triggering, the control lock switch locks the shutter-release button, AE-L/AF-L button, multi selector dial, as well as the main and sub-command dials on the BG-N10. Unlock prior to use by switching to the ● position. The control lock is not a power switch.

④ Tripod Socket

⑤ Mounting Screw

⑥ Contact Cap

⑦ Camera Contact Cover Holder

⑧ Power/Signal Contacts

⑨ AE-L/AF-L Button *

⑩ Main Command Dial *

⑪ Multi Selector *

⑫ Locking Wheel

⑬ Battery Chamber Cover

⑭ Battery Chamber Latch

⑮ Battery Chamber

⑯ EN-EL15 Battery Holder
Holder for Nikon EN-EL15 battery.

⑰ Power Terminals

(EN-EL15 Battery Holder)

⑱ AA Battery Holder

Holds six AA batteries.

⑲ Power Terminals

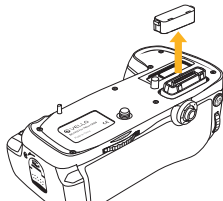
(AA Battery Holder)

** These controls perform the same functions as their on-camera equivalents and are affected by changes to the Custom Settings menu. See camera manual for details.*

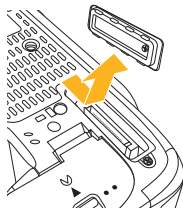
Attaching The Grip



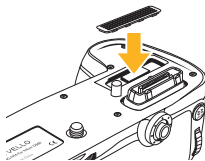
1. Ensure that the power is turned off on the camera and that the Control Lock on the BG-N10 is in the **L** position before attaching the grip.



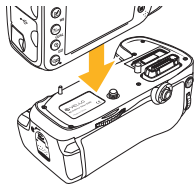
2. Remove the contact cap from the BG-N10 battery grip. When the BG-N10 is not attached to the camera, replace the contact cap to protect the contacts.



3. The contacts for the BG-N10 are on the bottom of the camera where they are protected by a contact cover. Remove the contact cover before mounting the grip.

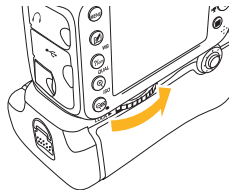


- 4.** To prevent loss, place the camera contact cover in the contact cover holder on the BG-N10.



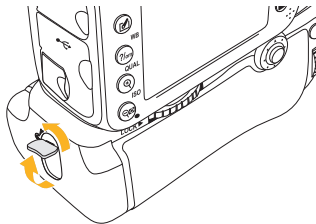
- 5.** Connect the BG-N10 grip to the camera while aligning the grip's mounting screw with the camera's tripod socket.

It is not necessary to remove the battery from the camera before mounting the grip.

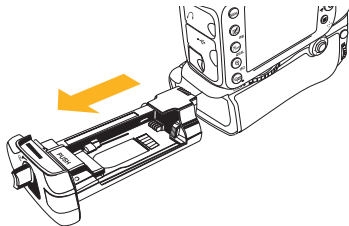


- 6.** Rotate the attachment wheel in the direction shown by the LOCK arrow until it is firmly tightened.

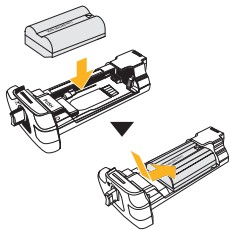
Inserting Batteries



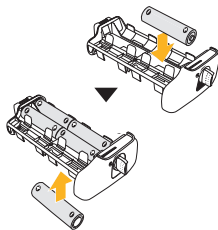
1. Ensure that the power is turned off on the camera and the Control Lock on the BG-N10 is in the **L** position. Turn the battery-chamber latch counterclockwise to open the battery chamber door.



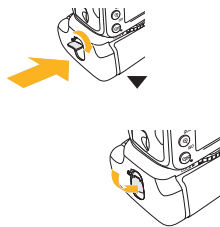
2. Remove the battery holder from the BG-N10 grip. The **EN-EL15** battery holder comes pre-installed.



- 3. Nikon EN-EL15 Battery:** Matching the indentations on the battery with the **EN-EL15** holder, press the battery down and slide it in the direction of the arrow until the power terminals click into place.



- 4. AA Batteries:** Place Six AA batteries of the same type in the **AA** battery holder as shown, while ensuring that they are in the correct orientation.











- 5.** Insert the battery holder into the grip. Close the battery chamber and then turn the latch clockwise to lock. Turn the camera on and check the battery level in the control panel or viewfinder.






Battery Info

The camera displays the following battery levels.

Nikon EN-EL15 Battery:

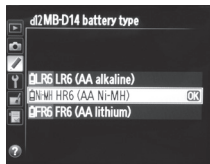
Control Panel	Viewfinder	Description
	—	Battery fully charged.
	—	Battery partially discharged.
		
		
		Low battery. Prepare spare batteries.
 (blinking)	 (blinking)	Battery exhausted. Shutter release is disabled.

AA Batteries:

Control Panel	Viewfinder	Description
	—	Batteries fully charged.
		Low battery power. Prepare spare batteries.
 (blinking)	 (blinking)	Batteries exhausted. Shutter release is disabled.

AA Battery Settings

To ensure that the camera shows the correct battery level when AA batteries are used, choose the appropriate setting in the Custom Settings menu (Group “d”).

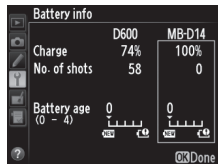


Battery Type	Menu Option To Select
AA alkaline (LR6)	LR6 (AA alkaline)
AA Ni-MH (HR6)	HR6 (AA Ni-MH)
AA Lithium (FR6)	FR6 (AA lithium)


Note: The menu screens on this page are from the D600.

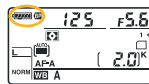
Nikon Rechargeable Batteries

The camera can display information (including calibration information) for Nikon EN-EL15 batteries via the Battery Info option in the Setup Menu. For AA batteries, only battery levels are displayed.

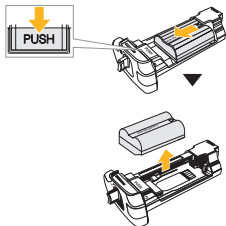


Battery Order

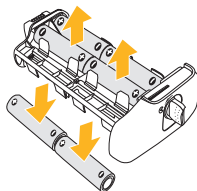
Set the order in which the internal camera and BG-N10 batteries are used via the Custom Settings menu (Group “d”). When the camera is drawing power from the BG-N10, a  icon is displayed in the control panel.



Removing The Batteries



1. **EN-EL15 Battery Holder:** While pressing and holding the **PUSH** button on the holder, slide the battery toward the button and lift up to remove.



2. **AA Battery Holder:** Remove the batteries one row at a time (as shown). Be sure that the batteries do not drop during this process.

Battery & Power

EN-EL15 Batteries

At low temperatures of about 50° F (10° C) and below, Nikon EN-EL15 batteries will decrease in performance. Warming up a cold battery can recover some of the lost charge. AA batteries have lower capacity and performance at low temperatures.

AA Batteries

In most cases, a Nikon EN-EL15 battery will provide better performance than AA batteries when used in the Vello BG-N10. AA LR6 alkaline batteries have limited capacity. Performance of AA batteries decreases significantly at temperatures below 68 °F (20 °C) and is therefore not recommended.

Remove the batteries when the BG-N10 is not in use.

Specifications

Power Source	One EN-EL15 rechargeable Li-ion battery or six LR6 Alkaline, HR6 Ni-MH or FR6 Lithium AA batteries
Operating Temperature	32 – 104 °F (0 – 40 °C)
Dimensions	5.3 × 1.8 × 3.1 in. (135 × 45 × 78 mm)
Weight	272.2 g (9.6 oz.) with EN-EL15 battery holder (excluding battery)

Specifications and design are subject to change without notice.

ONE-YEAR LIMITED WARRANTY

Vello provides a limited warranty to the original purchaser that this product is 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. Vello's responsibility with respect to this limited warranty shall be limited solely to repair or replacement, at Vello's discretion, of any product that fails during normal consumer use. Inoperability of the product or part(s) shall be determined by Vello. If the product has been discontinued, we reserve the right to replace it with a model of equivalent quality and function.

To obtain warranty coverage, contact Vello 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.

This warranty does not cover damage or defect caused by misuse, neglect, accident, alteration, abuse, improper installation or maintenance. EXCEPT AS PROVIDED HEREIN, VELLO 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.





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