

**Bolt™**

*Inspiration strikes.*



**VX-710N**

**TTL FLASH**

**User's Manual**



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## Introduction

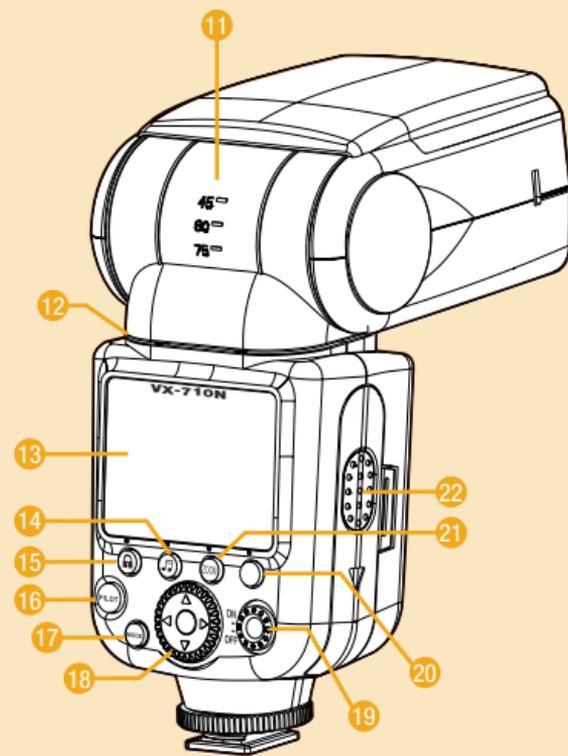
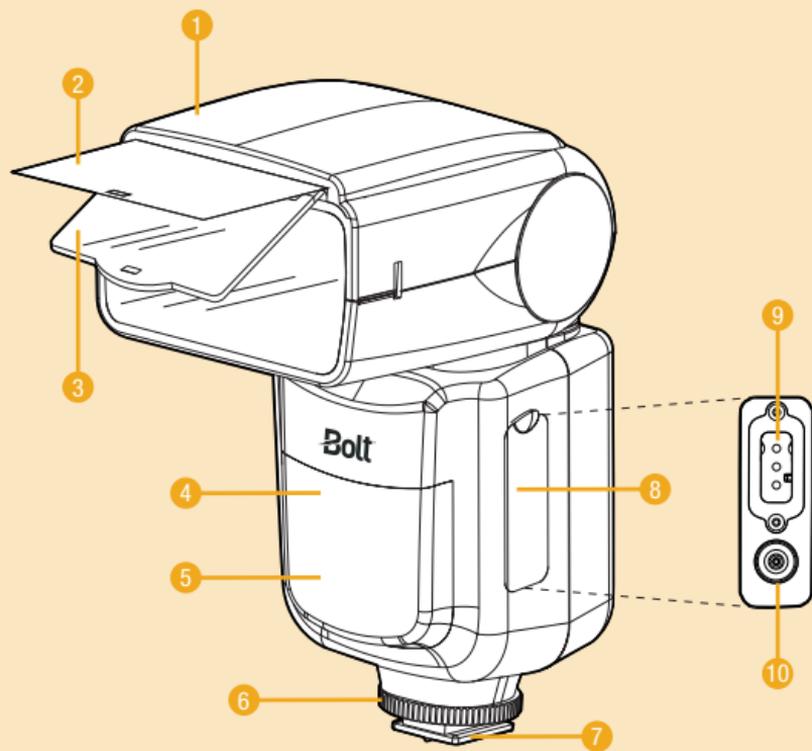
Thank you for choosing the Bolt VX-710N Flash. This advanced digital flash unit puts creative control in your hands with a broad range of automatic and manual features. It can be used as both an on-camera flash and as a wireless slave flash. Among the benefits you'll enjoy:

- Full compatibility with Nikon's i-TTL metering system
- Flash exposure bracketing
- Automatic and manual zoom from 24mm to 180mm
- Tilt and swivel head:  $-7^{\circ}$  down,  $90^{\circ}$  up,  $180^{\circ}$  right, and  $90^{\circ}$  left
- Two-inch backlit LCD
- Eight manual flash levels: full to 1/128 power, plus fine-tuning by 1/3
- Autofocus-assist for low-light photography
- Wireless optical slave
- Rear-curtain sync
- Built-in reflector and diffuser panels
- Automatic power-saving function

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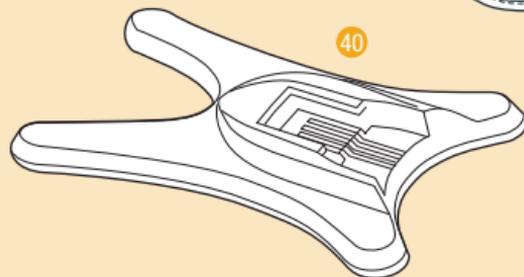
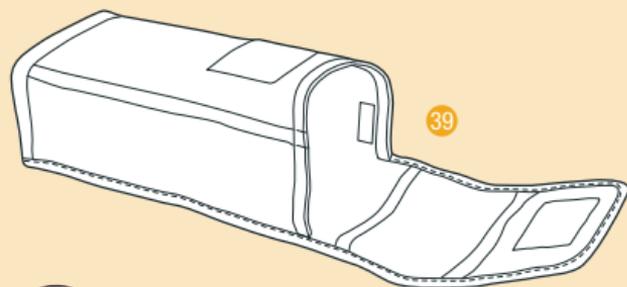
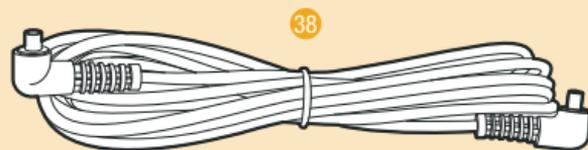
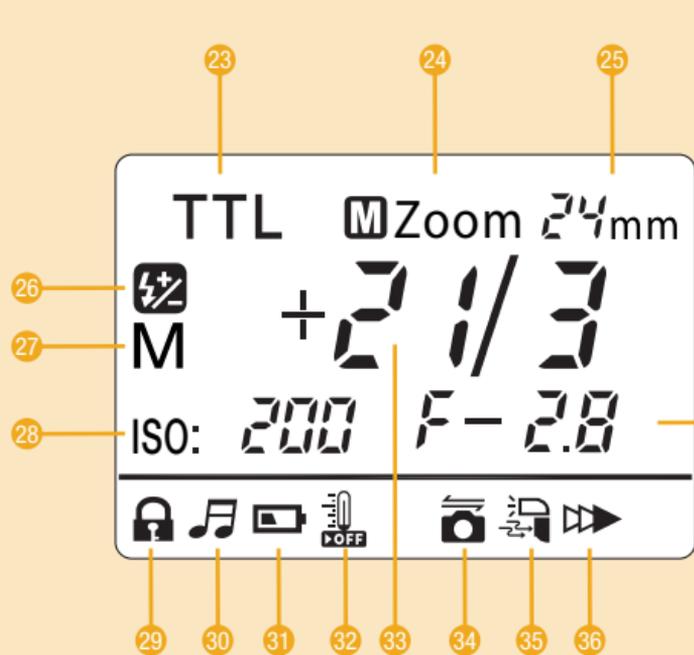
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## Overview

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38. PC sync cord
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40. Stand / Tripod mount

## Warnings

Before using your VX-710N, please read the following safety notices carefully and thoroughly to ensure safe use, and to help prevent damage to your flash or injury to yourself or 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.
- Always switch the flash off before changing the batteries.
- Always install AA batteries of the same type, brand, and age. Do not combine different types or brands, or old and new batteries. This can cause the batteries to leak, overheat, or explode.
- Install the batteries in the proper orientation, according to the indicator in the battery chamber. Installing batteries in the reverse orientation may cause them to leak, overheat, or explode.

- Do not use or store the VX-710N 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.
- Do not clean the VX-710N with agents containing corrosive or flammable substances such as paint thinner, benzene, or nail polish remover.
- This product is not water resistant. Keep it away from rain, snow, humidity, and general moisture.
- Should the VX-710N sustain physical damage, do not touch any exposed interior metal parts. If touched, they may generate an electric shock or cause a malfunction. Promptly remove the batteries and take the product to an authorized service center for repair.
- If you detect excessive heat, smoke, or a burning smell coming from the flash, immediately stop operation and remove the batteries to prevent the product from igniting or melting. Take the product to an authorized service center for repair.
- Do not drop or otherwise cause a strong physical impact to the VX-710N, as this can cause a malfunction that may cause it to explode or ignite.
- Remove all batteries from the VX-710N before long-term storage in order to prevent the product from igniting or leaking corrosive liquids.
- Do not store or use this product at temperatures above 104°F (40°C).
- Keep the metal contacts in the battery compartment clean and free of corrosion and dirt. Do not touch them with your fingers. Corrosive elements on the contacts can damage the VX-710N and prevent it from functioning properly. Contacts may be cleaned with isopropyl alcohol on a cotton swab.

- Dispose of used batteries properly. Never heat them or throw them into a fire, as this can cause the batteries to leak corrosive liquids, generate heat, or explode.

## Installing Batteries

**The VX-710N can be powered by four AA batteries of several types:**

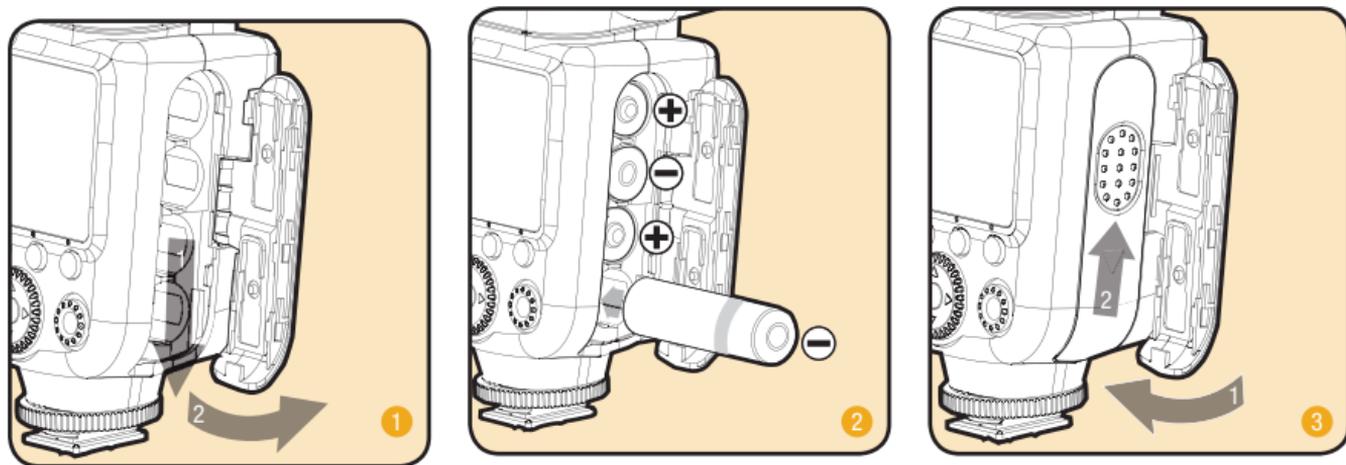
- Lithium (1.5 V)
- Nickel-metal hydride (Ni-MH) (1.2 V)
- Alkaline (1.5 V)

**Note:** For the fastest recycle times and longest battery life, lithium or Ni-MH batteries are recommended.

**To install batteries, make sure the VX-710N is turned off and follow these steps:**

1. Press on the battery compartment cover and slide it in the direction of the arrow to open it.
2. Insert batteries in the orientations indicated by the illustrations inside the compartment.

3. Close the battery compartment cover by pressing and sliding it into place, in the opposite direction of the arrow on the cover.



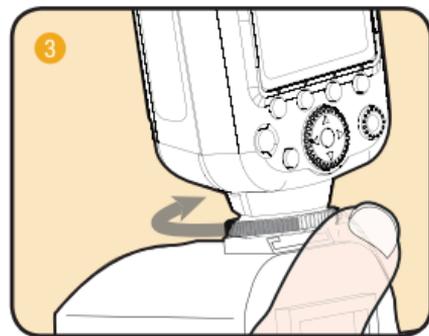
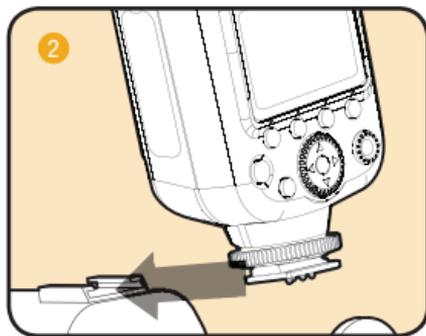
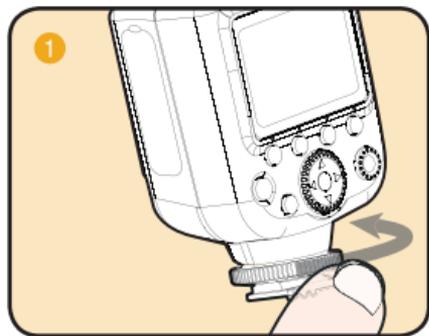
When the battery power is low, the low battery indicator (🔋) will appear on the LCD, the flash ready light will turn red for twenty seconds or longer, and the flash will continuously beep for approximately ten seconds.

**Important!** Replace all four batteries at the same time. Do not mix battery types or brands, or use old and new batteries together.

## Mounting the Flash

To mount the flash on your camera, make sure the VX-710N is turned off and follow these steps:

1. Rotate the locking wheel counterclockwise to loosen it.
2. Slide the mounting foot all the way into your camera's hot shoe.
3. Rotate the locking wheel clockwise until secure.

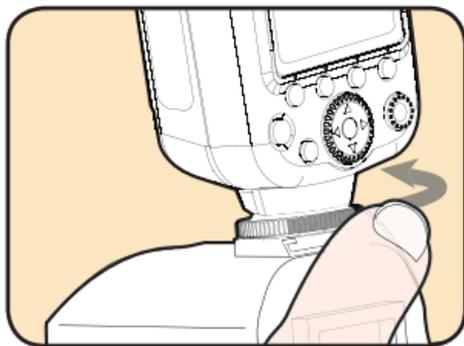


**To dismantle the flash from your camera, make sure the VX-710N is turned off and follow these steps:**

1. Rotate the locking wheel counterclockwise to release the flash.
2. Slide the mounting foot out of your camera's hot shoe.

**Mounting the VX-710N on the included stand:**

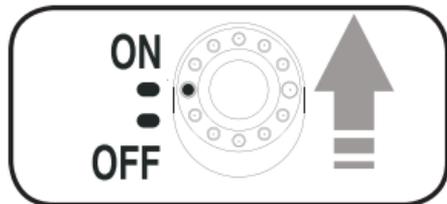
You can mount the VX-710N on the included stand in the same way you would mount it on your camera. This allows you to set the flash up on a flat surface, or to attach it to a tripod head, light stand, or clamp that has a compatible 1/4"-20 screw mount.



## Turning on the Flash and Firing a Test

To turn the flash on, slide the power switch to the ON position.

**Flash ready light:** The flash ready light indicates the status of your flash:



Color of flash ready light	Status of VX-710N	Operation
● Green	Flash ready	Normal
● Red	Recycling	Normal
● Red for 20+ seconds	Battery low	Replace batteries

If the flash is mounted on your camera, a flash icon will also appear in the camera's viewfinder.

To fire a test flash, press the PILOT button.

**Automatic power-saving function:** After three minutes of inactivity, the flash will automatically enter power-saving mode to conserve battery life. The LCD and the flash ready light will turn off. To reactivate the VX-710N, press the PILOT button or press your camera's shutter-release button halfway. During long periods of inactivity, use the power switch to turn the flash off completely.

**LCD illumination:** When you turn the flash on or press any button, the LCD will be illuminated for about six seconds.

**Audio monitor:** The audio monitor feature causes the flash to emit one or more beeps to indicate the status of the flash:

Audio monitor	Status of VX-710N	Operation
One beep	Pressed button/fired flash	Normal
Two beeps	Flash ready	Normal
Long beep for 10+ seconds	Entering overheating protection mode	Turn the flash off for 10 minutes to let it cool off
Continuous beeping for approx. 10 seconds	Low battery warning	Replace batteries

To turn on the audio monitor, press the AUDIO (🔊) button. The audio icon (🔊) will appear on the LCD, and the flash will emit a beep. Repeat this step to disable the audio monitor. Note that the low battery warning will sound even if the audio monitor is off.

**Lock mode:** To prevent inadvertent operation of your flash, you can lock it by setting it to lock mode. To lock the device, press and hold the LOCK button (🔒) until the lock icon (🔒) appears on the LCD. Repeat this step to unlock the device.

### **Important!**

Make sure that slave mode is turned off when mounting the VX-710N on your camera. Turn it on only when using the flash as an off-camera wireless slave.

**Overheating protection mode:** If the operating temperature of the VX-710N is too high, or after 25 continuous flashes at 1/1 (full power), the flash will enter overheating protection mode. The thermal warning icon (🔥) will appear on the LCD, the unit will emit a long beep for over ten seconds, and you will be unable to fire a flash. We suggest you turn the unit off for ten minutes to let it cool down.

## Extended Interface

You can connect your VX-710N to an external power source or PC sync via the extended interface on the side of the flash.

**External power source:** An external power source, such as the Bolt Cyclone Battery Pack, can greatly increase the battery life of your flash and reduce the recycle time in between flashes.

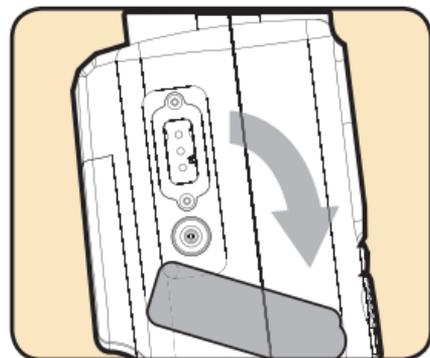
**Note:** When using an external power source, the AA batteries must still be in the flash in order to operate.

**PC Sync:** You can synchronize your VX-710N with a camera by running a PC cord between your camera and the VX-710N's PC sync terminal. This lets you position the flash away from the camera, thus giving you more lighting options.

**Note:** The PC sync terminal on the VX-710N is only for synchronous signal input, and not output.

To access the extended interface, follow these steps:

1. Pull back the contact cover on the side of the flash.
2. Plug the cable into the corresponding socket or terminal.
  - A. For an external power source, plug the power cable (Canon CZ-type, not included) into the external power source socket.
  - B. For PC sync, plug the PC cord into the PC sync terminal.

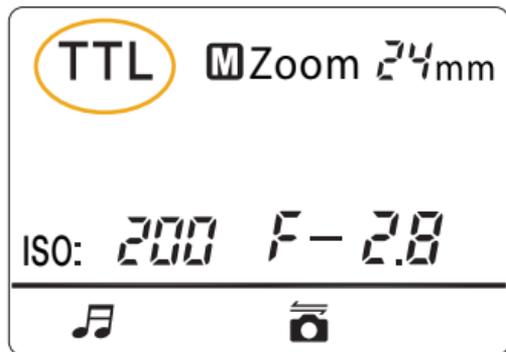


**Note:** When using both cables at the same time, first insert the PC cord and then insert the power cord. Very rarely, a thick-profiled PC cord will not fit at the same time as the power cable. In that case, use the supplied PC cord.

## Using the Automatic TTL Flash Mode

When the VX-710N is mounted on a compatible camera, it can set the appropriate flash level automatically, in conjunction with the camera's through-the-lens (TTL) metering system. To use the automatic flash mode, mount the flash on the camera and follow these steps:

1. Turn the flash on and press the MODE button repeatedly to cycle through the flash modes until the TTL mode indicator appears on the LCD.
2. Make sure your camera is set to a programmed or automatic mode, or on a priority mode such as aperture priority.
3. Press the shutter-release button on your camera halfway to ensure that the camera is communicating with the flash. The camera's ISO and aperture settings will appear on the flash LCD, and a flash icon will appear in the camera's viewfinder.
4. Press your camera's shutter-release button to take the picture.



## Locking Flash Value

In automatic TTL mode, you can lock the flash output level that is optimal for specific elements of your scene by using the flash value lock (FV Lock) on your camera. To lock flash value, follow these steps:

1. Set your camera to P, S, or A mode.
2. Position the element of your scene that you want to be correctly exposed in the center of your viewfinder.
3. Press the FV Lock button on your camera. The flash will fire a test shot and lock its output level, and an asterisk (\*) will appear next to the flash icon in the viewfinder.
4. Reframe your image as desired and take the picture.

For more information about the FV Lock feature, consult your camera's manual.

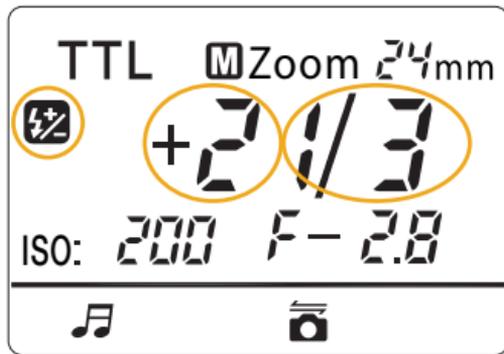
## Using Flash Exposure Compensation

Flash exposure compensation lets you adjust and optimize your flash's automated setting by increasing or decreasing its light output without affecting the exposure as a whole.

In automatic TTL mode, you can use flash exposure compensation to adjust the VX-710N's flash output incrementally, just as you would adjust exposure with the exposure compensation function on your camera.

To apply flash exposure compensation, use the left and right navigation buttons to adjust by full stops, and the up and down navigation buttons to fine-tune in increments of one-third. The flash exposure compensation indicator will appear on the LCD.

**Note:** When decreasing flash exposure compensation in increments of one-third from a whole stop, you will need to decrease it by one whole stop, and then increase by two-thirds. For example, when fine-tuning from +2 to +1⅓, you will need to adjust the value to +1, and then fine-tune to +1⅓. When working with negative numbers, e.g., when fine-tuning from -1 to -1⅓, you will need to adjust the value to -2, and then fine-tune to -1⅓.



## Red-Eye Reduction

The VX-710N supports red-eye reduction on cameras that offer the setting. Consult your camera's instruction manual to find out how to activate it.

## Using Flash Exposure Bracketing

Flash exposure bracketing (FEB) lets you take three continuous pictures while automatically changing the flash exposure compensation between -3 and +3, once above and once below the set flash exposure. FEB is useful for shooting in situations in which it is difficult to determine the appropriate flash exposure.

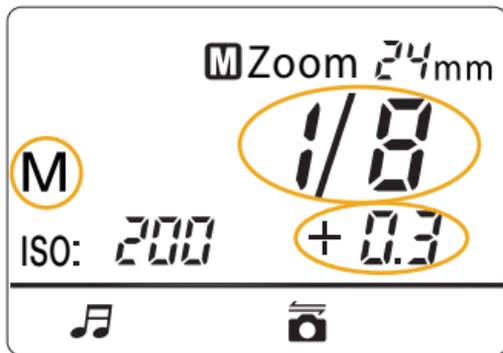
The VX-710N supports FEB on cameras that offer the setting. To find out how to enable FEB, consult your camera's instruction manual.

## Using the Manual Flash Mode

You can set the VX-710N's flash output level manually, for greater creative control over your images. The 1/1 setting is the full-power flash, and each successive setting halves the light output, all the way down to 1/128. You can also fine-tune the flash output in increments of one-third.

To use the manual mode, turn the flash and camera on and follow these steps:

1. Press the MODE button repeatedly to cycle through the flash modes until the manual mode indicator and the flash output level appear on the LCD. Use the left and right navigation buttons to set the flash output, and the up and down navigation buttons to fine-tune.
2. Set the exposure settings you want to use on your camera.
3. Press your camera's shutter-release button to take the picture.
4. Adjust your camera's exposure settings and the light output level of the flash as needed.



**Note:** When decreasing the flash output in increments of one-third from one setting to a lower setting + 0.3 or 0.7, you will need to decrease it to the next lowest setting, and then fine tune it up. For example, when decreasing from 1/4 to 1/8 + 0.7, you will need to decrease to 1/8, and then increase to 1/8 + 0.7.

When setting exposure settings on your camera, the highest shutter speed available will be your camera's flash sync speed.

**Tip:** For best results, use a handheld light meter when shooting in manual flash mode.

## Controlling Flash Coverage (Zoom)

The VX-710N's angle of coverage can be adjusted, or zoomed, to match the focal length of your lens, so that your image is evenly illuminated from edge to edge.

When the flash zoom setting is adjusted, the reflectors inside the flash head shift position in order to widen or narrow the angle of coverage.

**Automatic zoom control:** In automatic zoom mode, when you zoom in with your camera lens, the flash will automatically adjust to match the lens focal length, and the LCD will display the closest zoom setting. The available range is between 24mm and 180mm.

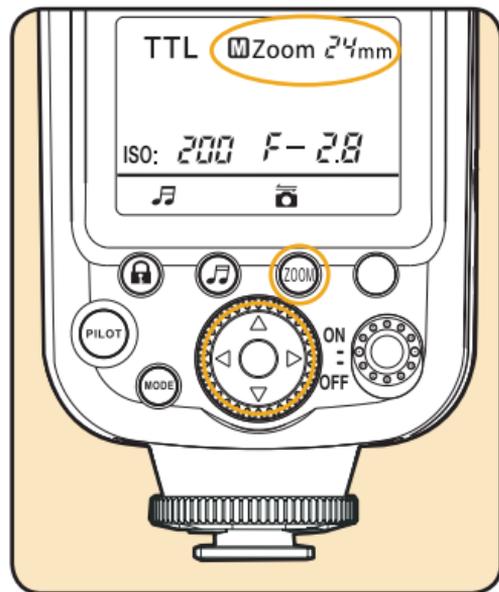
To enable automatic zoom control, press the ZOOM button, and then press the down navigation button so the manual zoom mode indicator on the LCD disappears. Press the ZOOM button again to confirm your selection. Press the shutter-release button on your camera halfway to initiate communication between the camera and the flash, and the flash zoom setting will change automatically.

**Note:** Older cameras that do not offer digital data transmission with the flash do not support the automatic flash zoom control. The manual zoom control must then be used.

**Manual zoom control:** To manually select a setting that corresponds to the focal length of your lens, press the ZOOM button, and then use the left and right navigation buttons to adjust the focal length settings. Press the up navigation button to skip directly to 180mm, or press the down navigation button to return to auto zoom control. Press the ZOOM button again to confirm your selection.

The available manual zoom positions are 24, 28, 35, 50, 70, 85, 105, 120, 135, and 180mm.

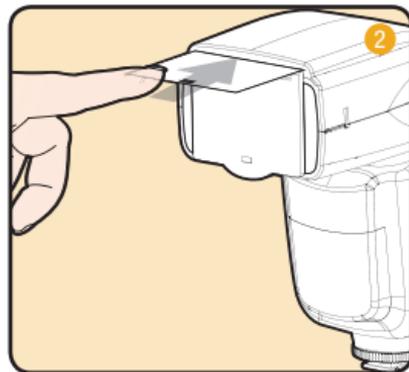
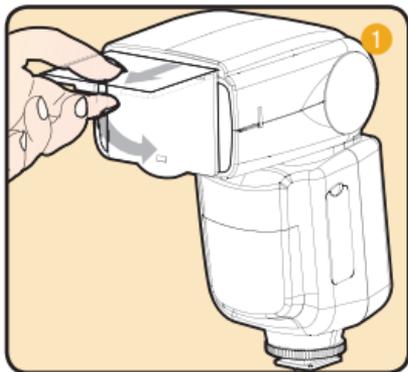
**Tip:** Manual zoom can also be used to achieve special effects, such as using the 180mm setting with a wide-angle lens to produce a vignette.



**Using the flash with wide-angle lenses:** When you have a lens wider than 24mm mounted on your camera, you can use the built-in diffuser panel to give the flash an angle of coverage equivalent to that of an 18mm lens.

**To use the diffuser:**

1. Pull the diffuser and reflector panels out of their slot in the flash head.
2. Push the reflector back in and let the diffuser lay flat against the flash lens.



The diffuser also softens the light, providing an alternative when no surface is available for bouncing the flash (see *Bouncing Your Flash* on page 30).

## Using the Autofocus-Assist Light

Camera autofocus systems can have difficulty locking onto a subject in dim light. When the ambient light level is low, the VX-710N will emit a red autofocus-assist beam when you press your camera's shutter-release button halfway in order to autofocus. The camera will then be able to autofocus by locking onto the projected light.

**Note:** The autofocus-assist light is available only when your camera's autofocus system is set to AF-A or AF-S. It is not available when AF-C is selected.

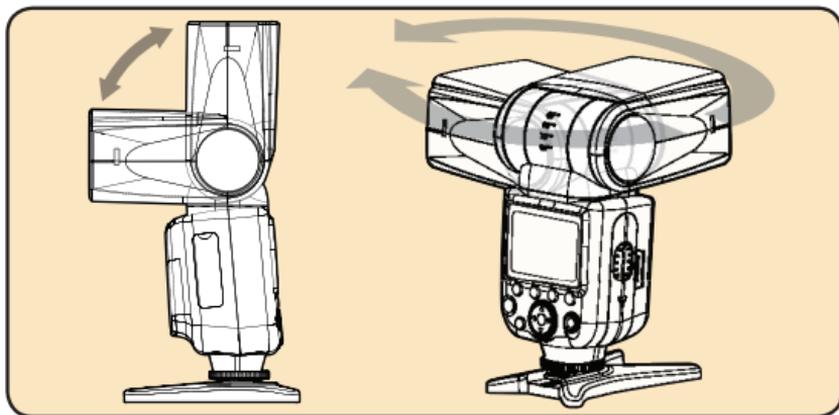
## Bouncing Your Flash

The VX-710N flash head can tilt down to  $-7^{\circ}$ , and up at  $45^{\circ}$ ,  $60^{\circ}$ ,  $75^{\circ}$ , and  $90^{\circ}$  angles to the lens. It can also swivel horizontally  $180^{\circ}$  to the right and  $90^{\circ}$  to the left.

Using flash to directly illuminate a subject often creates harsh, unnatural, and unattractive shadows. To avoid this, the flash can be tilted or swiveled, allowing you to aim your flash at a large white or neutral-colored surface, such as a ceiling, a wall, or a reflector. The light will bounce off the larger surface before striking your subject, providing softer, more natural illumination. In addition, the flash can tilt down by seven degrees in order to fully illuminate your subject when shooting close-up photography.

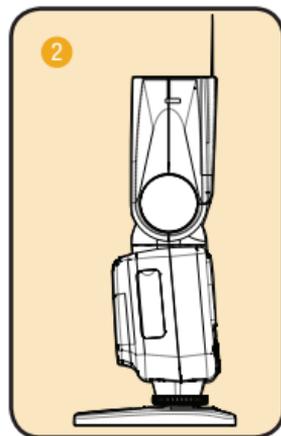
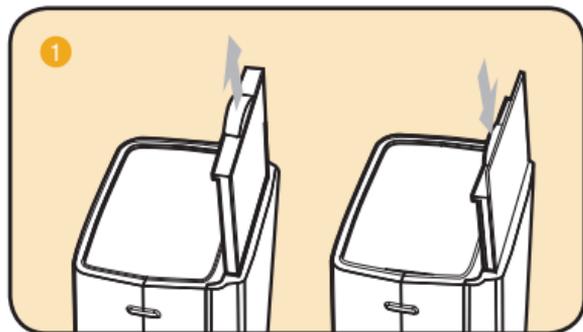
When bouncing your flash, you may need to adjust your exposure settings, since there will be less light falling on your subject. The farther away the bounce surface and your subject are, the less illumination there will be.

**Tip:** Bouncing your flash off colored surfaces can create a color cast in your images. Bouncing off a white or neutral-colored surface will not alter the color of the light, while bouncing off a gold-toned surface can give portraits a warmer look. Other colors, while usually not desirable, can be used for creative effects.



**Creating catchlights:** Catchlights are the reflections that appear in people's eyes in photographs. Without catchlights, eyes can have a dull, lifeless look. To create catchlights in your subjects' eyes when bouncing your flash, follow these steps:

1. Pull the built-in reflector and diffuser panels all the way out of their slot in the flash head. Push the diffuser back in while leaving the reflector extended.
2. Position the flash head at the 90° angle (pointing straight up) to bounce your flash off the ceiling or an overhead reflector.



## Using Rear- or Second-Curtain Synchronization

When you photograph a moving subject with a flash and a slow shutter speed (1/30 second or longer), the flash will freeze the moving subject and the long exposure will cause motion blur and light trails to appear in the image, especially in low light.

This slow-sync flash technique, also known as “dragging the shutter,” can be applied in two different ways. The first, which is called front-curtain or first-curtain flash sync, synchronizes the flash with the camera’s shutter release so that the flash fires at the beginning of the period when the shutter opens. This causes motion blur and light trails to appear in front of moving subjects.

The second method, which is called rear-curtain or second-curtain sync, synchronizes the flash to fire near the end of the exposure. Since rear-curtain sync causes motion blur and light trails to appear behind moving subjects, it creates a more realistic impression of movement and is most often preferable to front-curtain sync. When rear-curtain sync is activated, the rear-curtain sync icon (  ) appears on the LCD.

The VX-710N supports rear-curtain sync modes on cameras that offer the setting. Consult your camera’s instruction manual to find out how to activate it. Use your camera’s shutter-priority or manual mode to control the amount of blurring and light trails you capture by varying the shutter speed.

**Note:** In i-TTL mode, the VX-710N will fire a preflash followed by the primary flash.

## Using Your VX-710N as a Wireless Manual Slave

The VX-710N is equipped with a wireless (optical) manual slave function, allowing you to fire the flash remotely. Using the optical slave feature, the VX-710N can be set to fire whenever it detects a signal from the master flash. This works optically—when the VX-710N sees another flash firing, it will instantaneously fire along with it.

**Important terms:** Here are the terms you'll need to be familiar with in order to learn how to work with multiple wireless flash units:

**Master:** This can be any flash that is triggered by the camera, such as a built-in or hot-shoe mounted flash. The master controls how the slave flashes operate in wireless mode. Only one master flash is allowed in a multiple-flash photography setting.

**Slave or remote flash:** Flash units that are not directly connected to the camera and are controlled via the master flash or a controller are called slave or remote units. There is no limitation on the number of slave flash units that can be used at once.

**Setting the slave mode:** Depending on your camera and flash settings, the master flash may emit more than one burst of light in quick succession (called a “pre-flash”). Pre-flash is used to help the camera meter and/or focus, and is done automatically by the camera. If the slave flash is not set correctly, it may be triggered by the pre-flash and fire before the camera’s shutter opens. In order to ensure that the VX-710N fires at the correct time, there are two different slave modes available: modes S1 and S2.

To select the correct slave mode, follow these steps:

1. Press the MODE button repeatedly to cycle through the flash modes until the S1 or S2 icon appears on the LCD.
  - A. The S1 icon () has one arrow to indicate that the slave flash unit will fire on the first burst of light. Use this mode when the master flash is set to manual mode.
  - B. The S2 icon () has two arrows to indicate that the slave flash unit will ignore the preflash and will fire on the second burst of light. Use this mode when the master flash is set to TTL or automatic modes.
2. Press the left and right navigation buttons to set the flash output, and the up and down navigation buttons to fine-tune (see Using the Manual Flash Mode on page 25).

3. Make sure that the master flash on your camera is on and set to the appropriate mode. If you do not want the master flash to illuminate a subject in front of the camera, tilt or swivel the flash head.
4. Press the ZOOM button to adjust the zoom setting if desired (see Controlling Flash Coverage on page 27).

**Important!** Always take a test exposure to ensure that the slave is set correctly.

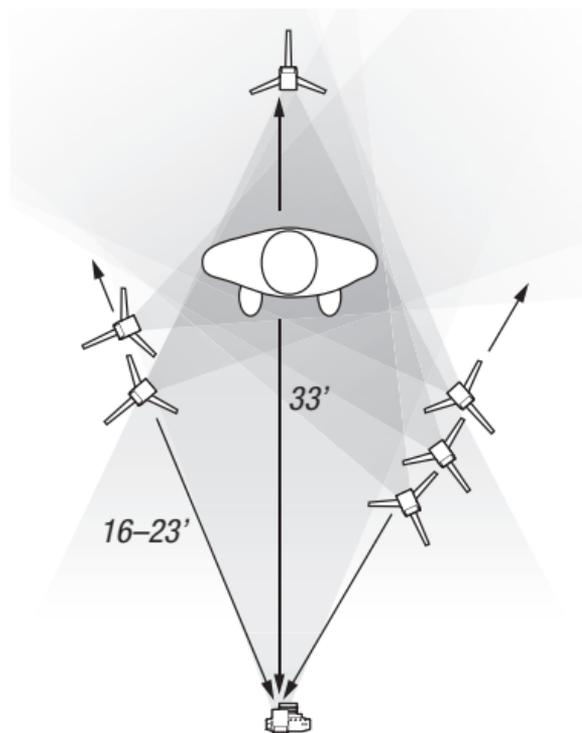
**Note:** Some cameras, when set to red-eye reduction, will emit a series of quick flashes lasting a second or more. This may not work properly with either slave mode. We suggest you avoid using red-eye reduction when using the VX-710N as a slave.

## Positioning Slave Flash Units

You can create a professional lighting setup by positioning slave units individually or in groups to function as main, fill, accent, and other lights. Metering your scene with a handheld light meter and setting your light ratios to achieve specific looks will give you a professional level of creative control.

## When positioning wireless slaves to light a subject, keep in mind the following:

- The effective communication range between master and slave flash units is approximately 33 feet (10 m) in the front position, and approximately 16–23 feet (5–7 m) on both sides. These ranges may vary, depending on the ambient light.
- The flash head should not be aimed directly into the camera lens.
- The optical sensor is located on the front of the VX-710N. Make sure that the sensor is facing the master flash and that there are no obstructions between the two units.
- When photographing outdoors or in bright ambient light, the sensors can be overwhelmed by ambient light, which will lower their sensitivity.



## Troubleshooting

Problem	Solution
The flash is stuck in the camera hot shoe.	Make sure that the mounting foot lock is released. (Page 15)
The flash is turned on but won't fire.	<ul style="list-style-type: none"><li>• Make sure that fresh batteries are installed and in the proper orientation. (Page 12)</li><li>• Make sure the flash is securely attached to the camera. (Page 14)</li><li>• Make sure that the electrical contacts on the foot of the flash are not dirty. Clean them and try again.</li><li>• The flash has entered overheating protection mode. Turn the unit off for ten minutes to let it cool down. (Page 18)</li></ul>
The flash buttons don't respond.	The control buttons are locked. (Page 18)
There's a whining sound coming from the flash.	This is normal and does not indicate a malfunction. When the flash heats up from continuous use, vibrations inside the unit may cause this sound. It will dissipate as the unit cools.

Problem	Solution
<p>The flash is set up as a wireless slave, but the light is not noticeable in the picture.</p>	<ul style="list-style-type: none"> <li>• Make sure that the master flash is within the transmission range, and that the wireless sensor on the slave is pointing toward the master flash. Remove any obstructions in the line of sight between the two. (Page 36)</li> <li>• Make sure that the flash is set to the appropriate slave mode. (Page 35)</li> <li>• The ambient light may be too high. (Page 37)</li> </ul>
<p>The edges of the images look dark.</p>	<ul style="list-style-type: none"> <li>• Make sure that the flash zoom setting corresponds to the focal length of your lens. (Page 27)</li> <li>• Your lens is wider than 24mm. Use the built-in wide-angle diffuser. (Page 29)</li> </ul>
<p>The bottom of the images look dark.</p>	<ul style="list-style-type: none"> <li>• To fully illuminate your subject when shooting close-up photography, tilt the flash down to the <math>-7^{\circ}</math> position. (Page 31)</li> <li>• Your camera's shutter speed is higher than its max sync speed in manual mode. Use a slower shutter. (Page 26)</li> </ul>

## Specifications

*Type:* On-camera TTL automatic and manual, and wireless manual flash

*Compatible cameras:* Nikon cameras with i-TTL flash system support

*Guide number (at 50mm focal length, ISO 100):* GN 50

*Flash coverage:* 24–180mm (18–180mm with diffuser panel)

*Flash duration:* 1/800–1/20000 second

*Flash recycle time:* 0.3–3 seconds (AA Ni-MH)

*Manual mode power output:* 1/1, 1/2, 1/4, 1/8, 1/16, 1/32, 1/64, 1/128, fine-tuning in increments of 1/3

*Slave timing modes:* Instant sync (S1), skip preflash (S2)

*Power source:* 4 AA lithium, Ni-MH, or alkaline batteries; optional external power source

*Tilt positions:* -7°, 0°, 45°, 60°, 75°, 90°

*Swivel range:* Right 0°–180°, Left 0°–90°

*Dimensions:* 3.0 × 5.7 × 4.7 in. (78.0 × 146.0 × 118.5 mm)

*Weight:* 14.4 oz. (408 g) without batteries

## **FCC notices for customers in the U.S.A.**

Tested to comply with FCC Standards for home or office use.

### **FCC Statement**

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, and (2) this device must accept any interference received, including interference that may cause undesired operation.

### **CAUTION**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference, which can be determined by turning the equipment off and on, the user is encouraged to try to correct to the interference by one or more of the following measures: re-orient or re-locate the receiving antenna; increase the separation between the equipment and receiver; connect the equipment into an outlet on a circuit different from that to which the receiver is connected; or consult the dealer or an experienced radio/TV technician for help.

You are cautioned that any changes or modifications not expressly approved in this manual could void the user's authority to operate the equipment.

### **ICES notices for customers in Canada:**

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

## Notes

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## Limited Warranty

Bolt provides a limited warranty that this product is free from defects in materials and workmanship to the original purchaser under normal use for a period of one (1) year from the original purchase date or thirty (30) days after replacement whichever occurs later. Our responsibility with respect to this limited warranty shall be limited solely to repair or replacement, at its option, of any product which fails during normal consumer use. To obtain warranty coverage during the Warranty Period, contact your place of purchase (“Seller”) to obtain a return merchandise authorization (“RMA”) number, and return to Seller the defective product along with proof of purchase and the RMA number. This warranty does not extend to damage or failure which results from misuse, neglect, accident, alteration, abuse, improper installation or maintenance. EXCEPT AS PROVIDED HEREIN, BOLT 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 which vary from state to state.

## Customer Service

For customer service, please go to [www.boltflashes.com](http://www.boltflashes.com)



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