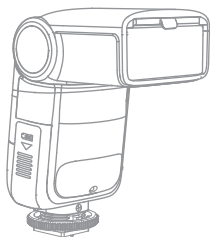


## Package Contents

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Speedlite



Mini Stand



Diffuser



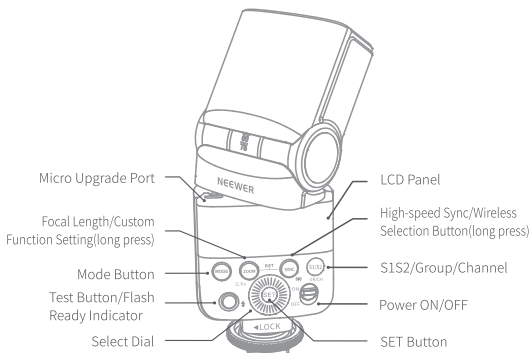
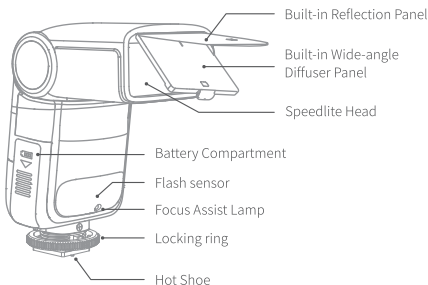
Protective Case



Manual

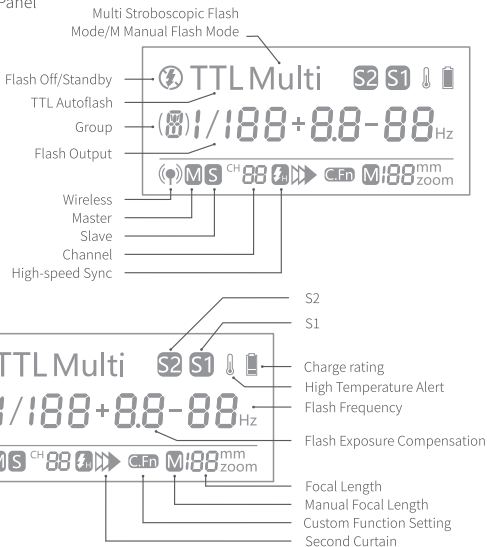
Please carefully check whether the contents of the package are complete and in good condition. If there are any missing or broken items, please contact Neewer Customer Service.

## Introduction to Functions



## Introduction to Functions

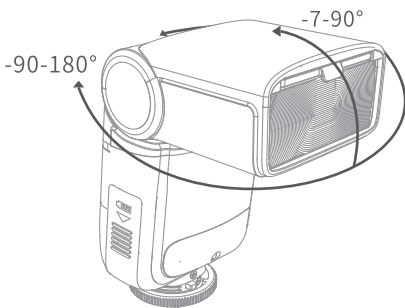
### LCD Panel



With the device completely shut down, long press the "MODE" button whilst powering on the flash to enter the firmware upgrade interface.

Press the "ZOOM" + "SYNC" combination button to restore the factory default value.

## Reflection Direction Adjustment

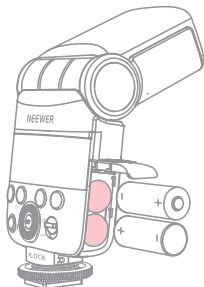


The flash head can be tilted up by 90°, lowered by -7°, and can be rotated horizontally by -90° to 180°. By pointing the flash head toward a wall or ceiling, the flash will bounce off the surface before illuminating the subject. This can soften shadows behind the subject for a more natural-looking shot.

## Power Supply

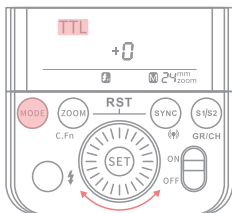
AA Battery-power

EN



## Introduction to Functions

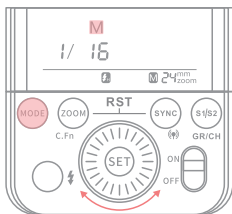
TTL Autoflash Mode



In TTL mode, the camera and flash will work together to calculate the correct exposure for the subject and the background to then automatically adjust the flash output. There are multiple TTL functions available in this mode including: FEC, HSS, Secondary-curtain sync, etc.

Short press the "MODE" button until "TTL" mode is displayed; then short press "SET" button and turn the select dial to set the flash output.

M Manual Flash



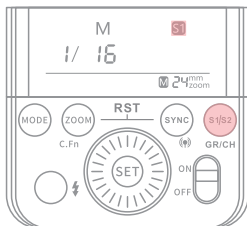
Flash output can be set between 1/128 power and 1/1 full power.

Short press "MODE" button until "M" mode is displayed, then turn the select dial to set the flash output.

## Introduction to Functions

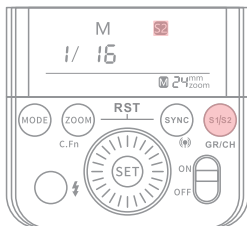
### S1 Optical Control Mode

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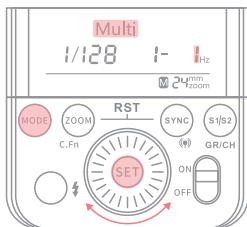
In M manual flash mode, short press "S1/S2" button to access the S1 mode. This will allow the flash unit to operate as an optical S1 secondary flash which helps create multiple lighting effects, appropriate for use in a manual flash environment.

### S2 Optical Control Mode



In M manual flash mode, short press "S1/S2" button to activate S2 mode. This allows the flash unit to function as an optical S2 secondary flash and support the main flash working in TTL mode by ignoring the pre-flash triggered by the TTL flash.

### Stroboscopic Flash Multi Mode



The stroboscopic flash fires a rapid series of flashes. It can be used to capture multiple images of a moving subject in a single photograph. It is possible to set the flash frequency(Hz), the number of flashes and the flash output.

Short press "MODE" button until "Multi" mode is displayed. Short press "SET" button until "1" flashes on the display, then turn the select dial to adjust the settings. Short press "SET" button again to adjust other settings.

Number of Flashes/Flash Frequency = Shutter Speed

For example, if the number of flashes is 10 and the flash frequency is 5 Hz, the shutter speed should be at least 2 seconds.

# Introduction to Functions

## Maximum Stroboscopic Flashes

Flash Output \ Hz	1	2	3	4	5	6-7	8-9	10-19	20-50	60-90
1/4	6	3	2	2	2	2	2	2	2	2
1/8	14	14	6	4	3	3	3	2	2	2
1/16	30	30	30	20	10	8	5	3	3	3
1/32	60	60	60	50	50	40	12	5	5	5
1/64	90	90	90	80	80	70	60	20	10	10
1/128	90	90	90	90	90	90	80	70	30	20

To avoid overheating and causing the flash head to deteriorate, do not use the stroboscopic flash more than 10 times in succession. After 10 successive flashes, allow the camera flash to rest for at least 15 minutes. If you try to use the stroboscopic flash more than 10 times in succession, the flash will stop triggering automatically to protect the flash head. If this happens, please allow the flash to rest for at least 15 minutes.

## C.Fn: Setting Custom Functions

Please follow the chart below to set up a custom function.

Custom Function Symbol	Function	Setting No.	Settings & Description
ST   <b>St</b>	Auto sleep(standby)	ON	ON
		OF	OFF
AF   <b>AF</b>	AF-assist Lamp	ON	ON
		OF	OFF
BL   <b>BL</b>	Backlighting control	10 sec.	Auto off in 10 sec.
		OF	Always off
		ON	Always on
ID   <b>ID</b>	Wireless ID	OF	OFF
		01~99	Set ID No.
1.01   <b>1.01</b>	Version Information	/	/

1. Long press the <ZOOM> button for 2 seconds until C.Fn menu is displayed.
2. Turn the Select Dial to select the Custom Functions.
3. Press the <SET> button until the Setting No. flashes.
4. Turn the Select Dial to set the desired number, then press the <SET> button to confirm the settings.
5. Press the <ZOOM> Button to exit C.Fn menu.

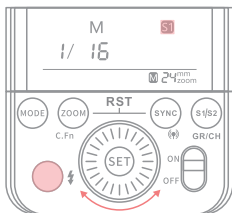
## Auto Focus Assist Lamp

In poorly-lit or low-contrast shooting environments, the built-in auto focus assist lamp will automatically light up to make it easier for autofocus. The red AF-assist lamp will light up when autofocus is difficult. When autofocus is accurate, the AF-assist lamp will automatically go out.

If you wish to turn off the auto focus assist function, set the "AF" to "OFF" on the C.Fn menu.

- ⚠ The autofocus assist lamp will automatically light up when use on a DSLR camera. This function will not activate with interchangeable lens digital cameras. Some cameras may not support external AF-assist lamp - please refer to the camera manual for details.

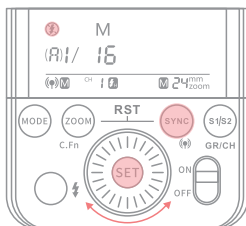
## Flash Test



- "⚡" button turns red to indicate that the flash is ready to fire. Short press
- "⚡" button to fire the test flash.

### Master Unit Setting

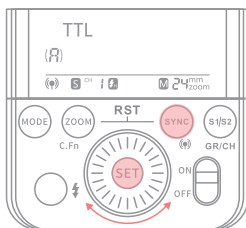
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Long Press "SYNC" button for 2 seconds until "⚡" blinks. Turn the Select Dial until the "M" displays, indicating that the master unit is displayed on the LCD panel. Press the "SET" button again to confirm.

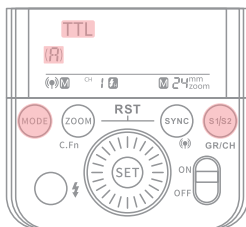
If the icon "⚡" is displayed on the LCD panel in master unit mode, it is not able to fire the flash.

### Slave Unit Setting



Long Press "SYNC" button for 2 seconds until "⚡" flashes. Turn the Select Dial until the "S" shows, which indicates that the slave unit is displayed on the LCD panel. Press the "SET" button again to confirm.

### Setting the flash mode of the group flash



Press "GR/CH" button to choose A/B/C group, then, press "MODE" button to enable the master unit to work in TTL/M/Multi flash mode. Choose one of them as the flash mode of master unit.

Canon:

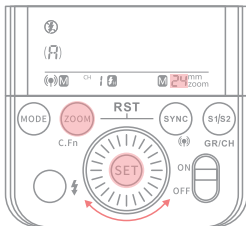
Short press "GR/CH" button to choose A/B/C group, then short press "MODE" button to choose TTL/M/OFF. Alternatively, long press the "MODE" button to select Multi mode. By selecting this mode and choosing group A, the main light will adopt the MODE settings of group A. The main flash and auxiliary flash can be triggered at the same time. The TTL/M/OFF function can also be selected.

Note: The "☹" icon represents the OFF function.

Nikon/Sony:

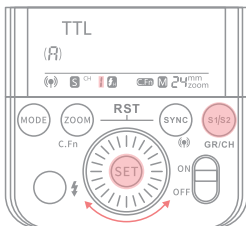
Press "GR/CH" button to choose between group A/B/C, then short press "MODE" button to select TTL/M/OFF. Alternatively, long press "MODE" button to select Multi mode. In this mode, choose group M to adjust the main light to flash automatically. TTL/M/OFF functions can also be selected. (TTL mode: When the auxiliary light flashes, the main light flashes simultaneously. M mode: When the auxiliary light flashes, the main light flashes at the same time. OFF mode: When the auxiliary light flashes, the main light does not flash).

### Focal Length Adjustment



Short press the "ZOOM" key to adjust the focus from 24~105mm (AU is automatic), turn the adjusting knob until it reaches the right value, then short press the "SET" button again to confirm.

### Setting the Communication Channel



If there are other wireless flash systems nearby, you can change the communication channel to prevent signal interference. The channel IDs of the master unit and the slave unit(s) must be set the same.

Long press "GR/CH" button until 1 channel flashes, turn the Select Dial to choose a channel ID from CH1 to CH32. Short press the "SET" button to confirm the settings.

## Wireless Settings

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Please note: The master flash and the slave flash must be set to the same ID, channel, and group in order to initiate wireless flash functionality. (ID Settings can be found in the custom function interface. The factory setting is OFF by default with no adjustment required)

Q-C/N/S trigger can also be purchased separately for wireless TTL flash control (not included).

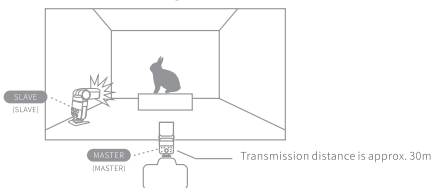
## Wireless Multiple Flash Shooting

It is possible to divide the slave units into two or three groups to perform TTL autoflash shooting simultaneously. In addition, it allows you to set and shoot with different flash modes for each flash group (up to 3 groups).

The illustration shows how to achieve an optimal positioning and range for each flash unit. Set the main control to <TTL> to start shooting wireless using the auto flash.

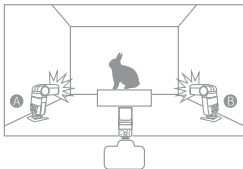
Positioning and Operation Range (an example of wireless flash shooting)

### • Autoflash Shooting with One Slave Unit

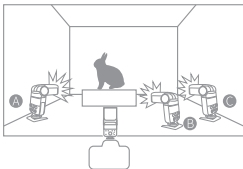


It is possible to divide the slave units into two or three groups to perform TTL autoflash shooting simultaneously. In addition, it allows you to set and shoot with different flash modes for each flash group (up to 3 groups).

### • Auto Shooting with Two Slave Groups



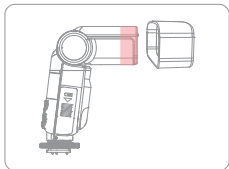
### • Auto Shooting with Three Slave Groups



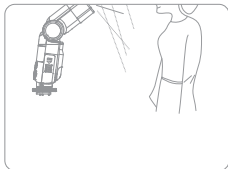
## Installation and Use Method

### Using a Diffuser

Using a diffuser can increase the flash's diffusion range, make the light softer and reduce the shadow.



Attach the diffuser to the flash body.



Adjust the flash head to an appropriate angle to achieve the desired effect.

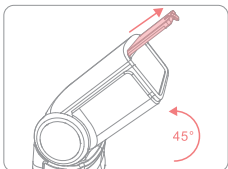


## Installation and Use Method

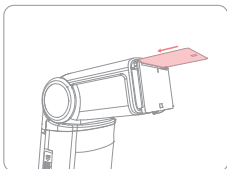
EN

### Using the Built-in Wide-angle Diffuser Panel

By pointing the flash head toward a wall or ceiling, the flash will bounce off the surface before illuminating the subject. This can soften shadows behind the subject for a more natural-looking shot.



Tilt the flash head up by 45° and pull out the wide-angle diffuser panel and the reflection panel.

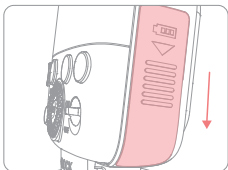


Push the reflection panel back in and keep the wide-angle diffuser panel out.

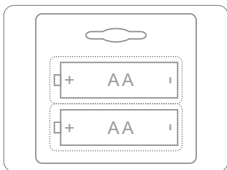
When using the wide-angle diffuser panel, the focal length of the flash is minimum.

## Installation Steps

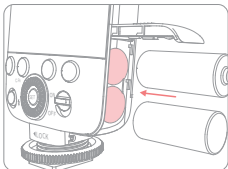
### AA Battery Installation



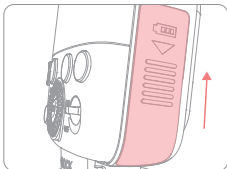
Slide the battery compartment cover along the arrow direction and open with your thumb.



Remove two AA batteries from their original packaging.



Please observe the positive and negative polarity positions when inserting batteries into the compartment.



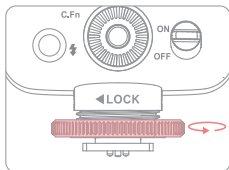
Slide the battery cover along the direction and slide it back in place. The battery cover will be locked when there is an audible click.

AA batteries are not included and need to be purchased separately.

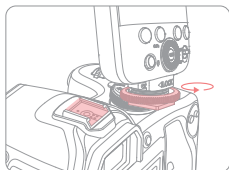
## Installation Steps

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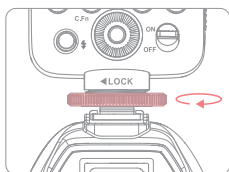
### Mounting the flash on the camera



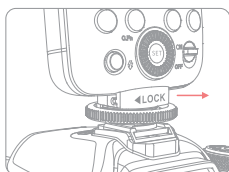
Rotate the locking ring in the direction of the arrow to the highest point.



Mount the flash into the camera's hot shoe completely.



Twist the locking ring clockwise to tighten it.



To remove the flash, loosen the locking ring to the top, then remove the flash from the hot shoe of camera.

When the flash is not in use, please make sure the power of both flash and camera is turned off before removing the flash. Do not exert excessive force when doing so.

## Safety Notes

1. Please do not trigger the flash in the vicinity of flammable liquids or gas (such as gasoline, natural gas, etc.) due to their explosive properties.
2. Please do not trigger the flash directly at moving vehicles to prevent causing a road traffic accident.
3. Do not use the flash at close range to the eyes of humans or animals to prevent retinal damage or even blindness.
4. Please do not charge the dry battery.
5. Please do not use the flash in the rain or in a humid environment.
6. Please do not use defective batteries in this speedlite which may cause the product to malfunction.
7. Please remove the battery when flash is not to be used for long periods.
8. If the speedlite fails to operate correctly, please follow these steps:  
Switch off the power of speedlite and camera, mount the speedlite on the hot shoe of camera and switch on the power again.  
If the speedlite still fails to work correctly, replace the batteries.
9. If functionality becomes abnormal or partially impaired during use, please replace with new AA batteries or check whether the locking pin is loose.

## Product Specifications

EN

Model	NW420-C	NW420-N	NW420-S
Guide Number	GN36(M/ISO100 105mm)		
Flash Cover Range	Manual zoom 24-105mm, Auto zoom		
Light Body Adjustment Angle	Swinging/tilting flash head(bounce flash):, -90°to 180° horizontally, -7 °to 90° vertically		
Flash Duration	1/350 to 1/20000 seconds		
Recycle Time	about 0.1 second to 2.2 seconds		
Sync Triggering Mode	Hotshoe, S1/S2, Radio 2.4G		
Exposure Control System	TTL, M, Multi		
Flash Exposure Compensation	Manual, FEB: $\pm 3$ stops in 1/3 stop increments (Manual FEC can be combined.)		
Sync Mode	High-speed Sync(up to 1/8000 seconds), First-curtain Sync, Second-curtain Sync		
Multi flash	Available (cycles: 90; 90Hz)		
Radio Transmission(2.4G)	Radio Type: Q series		
	Wireless master unit/slave unit/OFF		
	Master group: A/B/C(Canon) M\A\B\C (Nikon) M\A\B\C (Sony)★		
	Slave group: A/B/C		
	Channel: CH1-CH32		
	ID: 1~99\OFF		
	Transmission Length: $\leq 30$ m		
Optical Transmission Length	$\leq 15$ m		
AF Effective Range (approx.)	Center:0.6 to 4m / Periphery: 0.6 to 2.5m		
AA Battery	Ni-MH batteries (recommended) or 2*LR6 alkaline batteries		
Full Power Flash Times	Approx. 210 times (2500mA Ni-MH batteries)		
Standby	Powers off automatically after approx. 90 seconds of idle operation. (60 minutes if set as slave)		
Dimensions	150*64*39mm		
Net Weight (battery not included)	about 200g		
Operating Temperature	0°C ~ 40°C		
Frequency Range	2412.75MHz-2464.25MHz		
Maximum radio-frequency power	-3.09dBm		

The above documented specifications are based on internal company testing. Changes made to the specifications or designs may not be reflected in this manual.

★ When using wireless function, be sure to turn on "WL" flash mode of the camera.