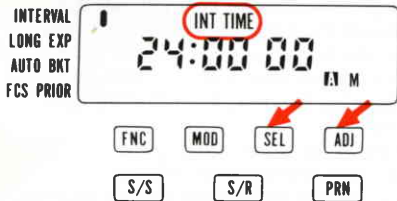


- With frames per shooting set at 00, Interval Timer operation cannot begin.
With interval time set at 00:00 00, Interval Timer will not function.
Setting interval time to 00:00 00 cancels Interval Timer set.
- With camera's shutter speed at 'bulb,' you cannot set Interval Timer function. Setting camera to 'bulb' cancels Interval Timer settings.
- If film reaches end of roll during shooting, Interval Timer operation stops automatically and start time resets to --. To avoid this, replace film cartridge during intervals.
- During Interval Timer operation, camera's meter turns on only when activated by the MF-21 and turns off 2 seconds after each shooting to save battery power.
- To ensure correct measurement by camera's exposure meter, use Eyepiece Cover DK-8 to prevent light from entering the viewfinder.
- During intervals you can take additional pictures in the ordinary way by depressing the shutter release button.
- Number of shootings indicated decreases by one with each shooting.
- When using a Nikon Speedlight with standby switch, speedlight charging begins one minute before the shooting time set in Interval Timer operation. If interval time is shorter than one minute, speedlight's standby switch does not function well.
- With camera body set for single servo autofocus in Interval Timer operation, shutter will not be released if focusing takes more than 10 seconds.
- When camera is set at autofocus mode with intervals of *more than three seconds*, and shooting time requires less than one second, the lens autofocus function will start two seconds before each shooting.
- If total of exposure and film advance time for one shooting extends beyond interval time, camera will skip one shooting and move on to the next shooting time.



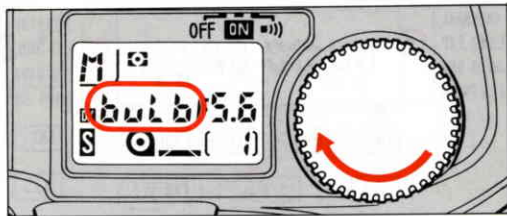
Using MF-21 as a timer

You can shoot at a given time every day by setting start time at your desired time and setting the interval time to 24:00 00.

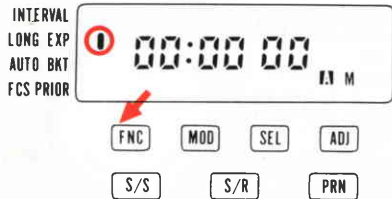
LONG TIME EXPOSURE FUNCTION

1. Make sure display shows Year/Month/Day, Month/Day/Year, Day/Month/Year, Day/Hour/Minute, Frame Count, Sequence Number, Fixed Number or shutter speed/aperture.

To imprint data during Long Time Exposure operation, select desired display, then push PRN button so Data Imprint function indicator appears. You cannot set or change imprint data while Long Time Exposure function is selected.

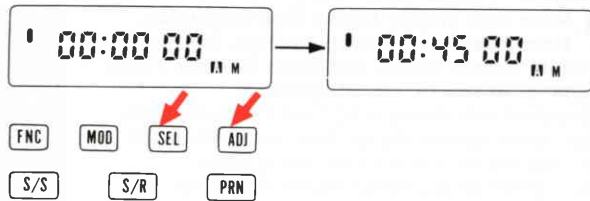


2. Set shutter speed on the camera to 'bulb' in manual exposure mode.



3. Push FNC button so Long Time Exposure function indicator appears.

Numerical indicator for exposure duration appears in LCD.



4. Set exposure duration.

With SEL and ADJ buttons, set desired exposure duration, using same method for setting date and time (pages 18 to 23).

Exposures can be performed for up to 99 hours 59 minutes 59 seconds.

In this example, 00:45 00 is set. Note that exposure duration depends on life of main camera battery.



- Blinking 'bulb' is displayed for warning with any camera shutter speed setting other than 'bulb.'

INTERVAL
LONG EXP
AUTO BKT
FCS PRIOR



- To confirm imprinted data, push MOD button to change display. To change imprint data, push FNC button four times to select Data Imprint function. After adjusting, push FNC button three times to activate Long Time Exposure function again. (This time, you do not have to set exposure duration.)

INTERVAL
LONG EXP
AUTO BKT
FCS PRIOR



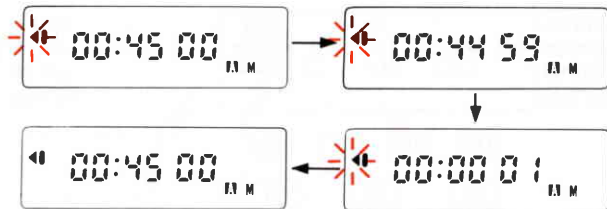
5. Push S/R button to finish Long Time Exposure setting.

Long Time Exposure set indicator appears.

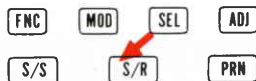


6. Start Long Time Exposure operation.

Push MF-21's S/S button or depress camera's shutter release button to start Long Time Exposure. The Long Time Exposure set indicator blinks throughout Long Time Exposure operation.



During operation, exposure duration display counts down second by second until it reaches 00:00 01, when shutter closes to complete the Long Time Exposure. Exposure duration display reverts to your previously set time and Long Time Exposure set indicator stops blinking.



7. Push S/R button to cancel Long Time Exposure set.

Long Time Exposure set indicator turns off.



To stop exposure before preset time:

Push S/S button. Shutter closes and Long Time Exposure set indicator turns off. Exposure duration display reverts to your previously set time.

- With exposure duration set at 00:00 00, Long Time Exposure does not function.
- With camera body set for single servo autofocus, Long Time Exposure cannot be activated by pushing S/S button if focusing takes more than 10 seconds.
- If you start a Long Time Exposure by depressing camera's shutter release button but hold button longer than the duration you have set, the shutter remains open as long as you hold the button, regardless of your setting.
- Shifting camera shutter speed from 'bulb' to other setting cancels Long Time Exposure set.
- Setting exposure duration to 00:00 00 cancels Long Time Exposure set.

AUTO EXPOSURE BRACKETING

At times when it is difficult to obtain a proper exposure (i.e., when shooting a sunset), use MF-21's Auto Exposure Bracketing function to shoot the same subject with several different exposures, for up to 19 frames.



For number of frames to be shot, set at any odd number from 3 to 19; for exposure compensation degree, choose any setting from 0.3 to 2 (0.3, 0.5, 0.7, 1.0, 1.3, 1.5, 1.7, or 2.0). Depending on exposure compensation degree set, the number of frames available may be limited. See table below.

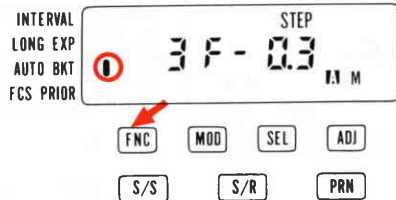
Exposure compensation degree	Number of frames you can set
0.3, 0.5, 0.7	3 to 19
1.0	3 to 17
1.3	3 to 13
1.5	3 to 11
1.7, 2.0	3 to 9

Make sure not to set an exposure compensation incompatible with the number of frames you intend to shoot. Otherwise, number of frames will be automatically reset to 3.

For practice, set MF-21 to take 7 shots with a shift in exposure of 0.5 degrees each time.

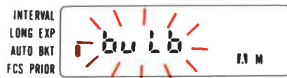
1. Make sure display shows Year/Month/Day, Month/Day/Year, Day/Month/Year, Day/Hour/Minute, Frame Count, Sequence Number, Fixed Number or shutter speed/aperture.

To imprint data during Auto Exposure Bracketing operation, select desired display, then push PRN button so Data Imprint function indicator appears. You cannot set or change imprint data while Auto Exposure Bracketing function is selected.

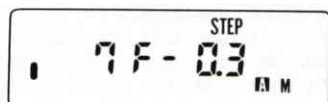
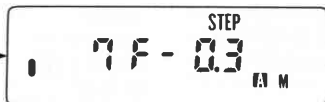
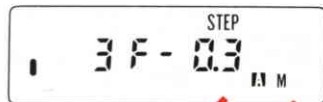


2. Push FNC button so Auto Exposure Bracketing function indicator appears in the LCD.

Numerical indicator for number of frames (with F) and numerical indicator for exposure compensation (with STEP) also appear.



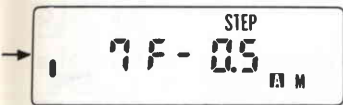
- With camera shutter speed set at 'bulb,' blinking 'bulb' warning appears in the LCD.



3. Set desired number of frames.

With SEL and ADJ buttons, set number of frames to 7 using same method described for setting date and time (pages 18 to 23).

Push SEL button once to access exposure compensation, then push ADJ button until 0.5 appears.



- To confirm imprinted data, push MOD button to change display. To change imprint data, push FNC button four times to select Data Imprint function. After adjusting, push FNC button four times to activate Auto Exposure Bracketing function again. (This time, you do not have to set number of frames and exposure compensation degree.)

INTERVAL
LONG EXP
AUTO BKT
FCS PRIOR

①

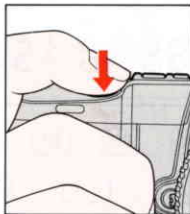
STEP
7 F - 0.5

1/1 M



4. Push S/R button to complete Auto Exposure Bracketing setting.

Auto Exposure Bracketing set indicator will appear.



INTERVAL
LONG EXP
AUTO BKT
FCS PRIOR

⚡

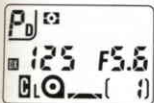
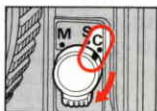
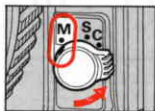
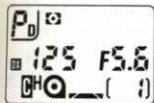
STEP
7 F - 0.5

1/1 M

5. Depress F-801/N8008's or F-801s/N8008s's shutter release button to release shutter and start Auto Exposure Bracketing operation.

Auto Exposure Bracketing set indicator blinks throughout the operation.

The operation progresses from underexposed to overexposed, with the correct exposure in the middle of operation (for 4th frame when number of frames is set at 7).

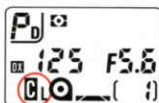
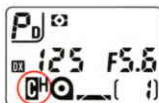


With camera's film advance mode set at CH or CL and focus mode set at either manual or continuous servo autofocus:

With F-801s/N8008s, depressing shutter release button and holding in triggers as many shots as the number of frames set. If you remove your finger from shutter release button before the set number of shots are taken, the operation stops; to take the remaining shots, depress and hold shutter release button again.

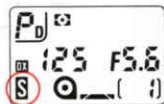
With F-801/N8008, depressing shutter release button triggers as many shots as the number of frames set.

With both F-801s/N8008s and F-801/N8008, when operation is complete, Auto Exposure Bracketing set indicator stops blinking.

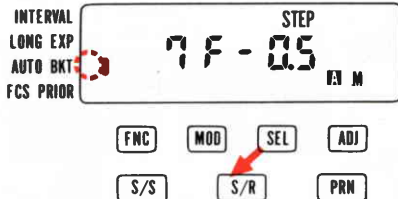


With camera's film advance mode set at CH or CL and focus mode set for single servo autofocus:

Depressing shutter release button and holding in triggers as many shots as the number of frames set. If you remove your finger from shutter release button before the set number of shots are taken, the operation stops; to take the remaining shots, depress and hold shutter release button again. When operation is complete, Auto Exposure Bracketing set indicator stops blinking.



With camera's film advance selector set at S:
Camera will take as many shots as set—one shot each time you depress shutter release button. When Auto Exposure Bracketing is complete, Auto Exposure Bracketing set indicator stops blinking.



6. Push S/R button to cancel Auto Exposure Bracketing set.
Auto Exposure Bracketing set indicator turns off.

- Pushing S/S button during Auto Exposure Bracketing turns off Auto Exposure Bracketing set indicator.
- With camera's shutter speed at 'bulb,' you cannot use Auto Exposure Bracketing. Setting to 'bulb' cancels Auto Exposure Bracketing settings.
- With camera's exposure mode at M for manual, exposure will not be compensated, although you will still be able to take as many shots as the number of frames set.
- In TTL auto flash photography, exposure shifts within the amount of light available from flash output.
- In single servo autofocus, shots will not be taken as long as subject is out of focus.

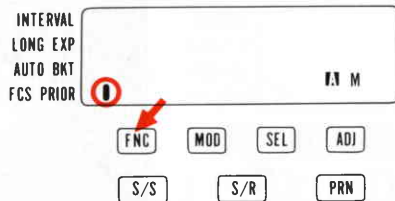
FREEZE FOCUS (FOCUS PRIORITY) FUNCTION

The MF-21's Freeze Focus function automatically released the shutter when the subject is in a present focus position in manual focus mode.

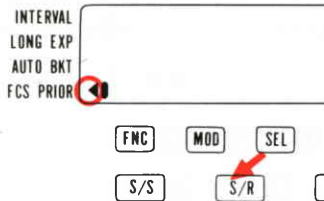


1. Make sure display shows Year/Month/Day, Month/Day/Year, Day/Month/Year, Day/Hour/Minute, Frame Count, Sequence Number, Fixed Number or shutter speed/aperture.

To imprint data during Freeze Focus operation, select desired display and push PRN button so Data Imprint function indicator appears.



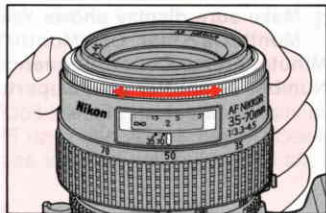
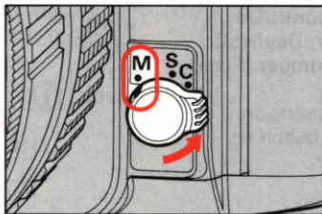
2. Push FNC button so Focus Priority indicator appears in LCD.



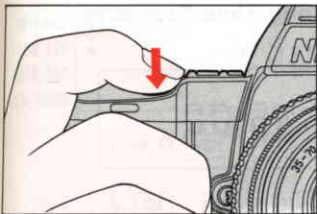
3. Push S/R button to set Focus Priority function.

Focus Priority set indicator appears.

- You can change or set imprint data after setting Focus Priority function. Push FNC button once so Data Imprint function is selected, then change and/or set data as desired. The Focus Priority set indicator remains on.



4. Making sure to set the focus mode selector to M (and set the lens A-M switch/ring to M if provided), rotate the lens focus ring to desired distance setting.



5. Depress shutter release button and hold it down to trigger Freeze Focus function.

With camera's film advance mode selector at CH or CL:

Shutter is released when subject comes in a preset focus position. As long as you keep shutter release button depressed, shutter will be released, unless subject is outside the focus bracket.

To stop Freeze Focus shooting, remove your finger from the shutter release button.

With camera's film advance mode selector at S:

Shutter is released when subject comes in a preset focus position.

Remove your finger from the shutter release button and depress again for the next shot. Shutter will be released each time you depress the shutter release button as long as the subject stays on the preset focus position.

INTERVAL
LONG EXP
AUTO BKT
FCS PRIOR



FNC

MOD

SEL

S/S

S/R

[

6. Push S/R button to cancel focus priority set.

Focus Priority set indicator turns off.

- With a object located at the same distance as your desired distance, you can perform autofocus to set lens focus ring. After autofocusing, never forget to set the camera's focus mode selector to M.

COMBINING MF-21'S FUNCTIONS

Certain MF-21 functions—Interval Timer, Long Time Exposure, Auto Exposure Bracketing and Freeze Focus (Focus Priority) function—can be combined. The following combinations are possible:

Interval Timer + Long Time Exposure

Interval Timer + Long Time Exposure

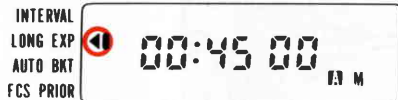
Interval Timer + Auto Exposure Bracketing

Interval Timer + Freeze Focus (Focus Priority) function

Long Time Exposure + Freeze Focus (Focus Priority) function

Interval Timer + Long Time Exposure + Freeze Focus (Focus Priority) function

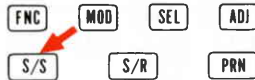
Interval Timer/Long Time Exposure Combination



1. Set Long Time Exposure function as desired.



2. Set Interval Timer.

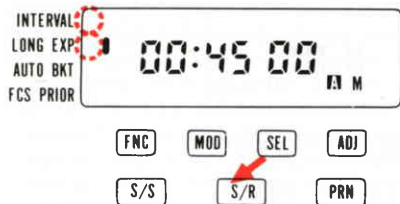


3. Push S/S button.

Long Time Exposures can be set for as many frames as you desire, with as many intervals as you choose to set.

Interval Timer set indicator blinks throughout operation; Long Time Exposure set indicator blinks each time shutter opens.

After all exposures are complete, operation automatically stops and both Interval Timer set indicator and Long Time Exposure set indicator stop blinking.

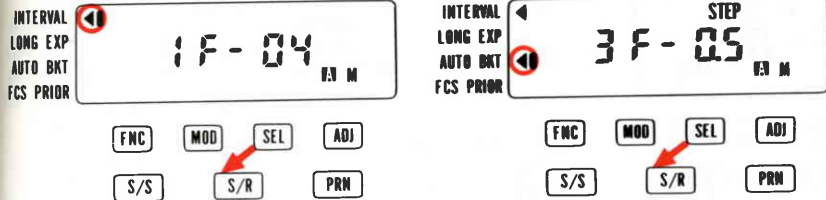


4. Push S/R button to cancel the settings.

With Long Time Exposure function display, pushing S/R button to cancel the Long Time Exposure set also cancels Interval Timer set.

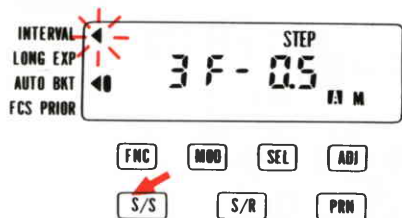
- To stop the operation before all exposures have been taken, push S/S button.
- Depressing the shutter release button during intervals triggers a Long Time Exposure at the duration that is set.

Interval Timer/Auto Exposure Bracketing Combination



1. Set Interval Timer and Auto Exposure Bracketing as desired.

Do not set number of frames for Interval Timer setting; it is automatically canceled when you set number of frames for Auto Exposure Bracketing.

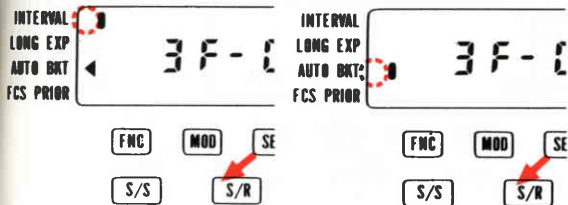


2. Push S/S button to trigger the operation.

Auto Exposure Bracketing shootings are performed as often as set, with the intervals you set.

Interval Timer set indicator blinks throughout the operation; Auto Exposure Bracketing set indicator blinks throughout shooting.

After all shootings are complete, operation stops automatically and both Interval Timer set indicator and Auto Exposure Bracketing set indicator stop blinking.



3. Cancel the settings.

With Interval Timer display, push S/R button to cancel Interval Timer set; to cancel Auto Exposure Bracketing set, push S/R button when Auto Exposure Bracketing display is showing.

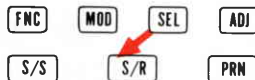
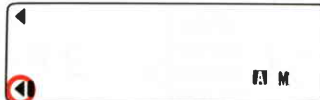
- To stop the operation before all exposures have been taken, push S/S button.
- Depressing shutter release button during intervals performs Auto Exposure Bracketing shooting according to your setting.

Interval Timer/Freeze Focus (Focus Priority) Combination

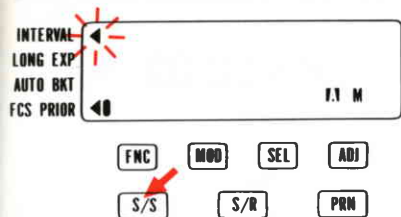
INTERVAL
LONG EXP
AUTO BKT
FCS PRIOR



INTERVAL
LONG EXP
AUTO BKT
FCS PRIOR



1. Set Interval Timer and Focus Priority as desired.



2. Push S/S button to start the operation.

Freeze Focus shootings are performed as often as you set with the intervals you set.

Interval Timer set indicator blinks throughout the operation.

After all shootings are complete, the operation stops automatically and Interval Timer set indicator stops blinking.

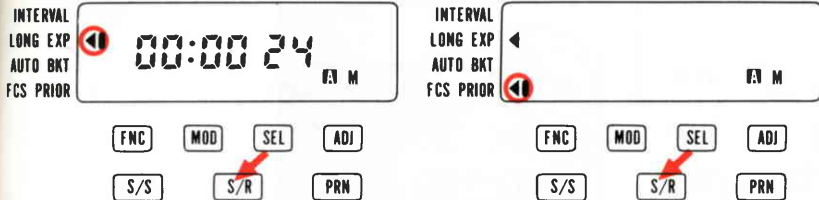


3. Cancel the settings.

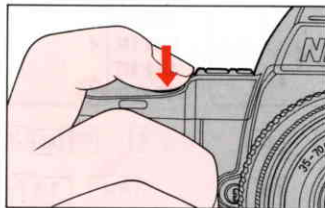
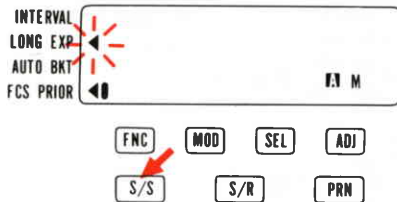
With Interval Timer display, push S/R button to cancel the Interval Timer set; to cancel Focus Priority set, push the S/R button when the Focus Priority display is showing.

- To stop the operation before all exposures have been taken, push S/S button.
- Depressing shutter release button during intervals triggers Freeze Focus shooting according to your setting.
- If subject does not enter preset focus position within approx. 10 seconds, MF-21 omits that shooting and continues as usual from next shooting time.

Long Time Exposure/Freeze Focus (Focus Priority) Combination



1. Set Long Time Exposure and Focus Priority as desired.



2. Start the operation.

Start the operation by pushing MF-21's S/S button or by depressing the camera's shutter release button.

With MF-21's S/S button depressed:

Long Time Exposure set indicator starts blinking. If subject enters the preset focus position within 10 seconds, shutter opens for Long Time Exposure. If subject does not enter focus position for 10 seconds or longer, Long Time Exposure is canceled.

After Long Time Exposure is complete, the Long Time Exposure set indicator stops blinking.

With camera's shutter release button depressed:

When subject enters the preset focus position, shutter opens for Long Time Exposure and Long Time Exposure set indicator starts blinking. When shooting is complete, Long Time Exposure set indicator stops blinking.

Note that shutter remains open for as long as you hold the shutter release button.

INTERVAL
LONG EXP 
AUTO BKT
FCS PRIOR ◀

00:00 2

FNC MOD SEL
S/S S/R

INTERVAL
LONG EXP
AUTO BKT
FCS PRIOR 

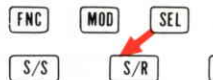
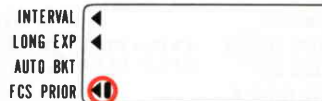
FNC MOD 
S/S S/R

3. Cancel the settings.

With Long Time Exposure display showing, push S/R button to cancel Long Time Exposure set; to cancel Focus Priority set, push S/R button with Focus Priority display.

- Pushing S/S button while Long Time Exposure set indicator is blinking cancels the Long Time Exposure shooting you have set.

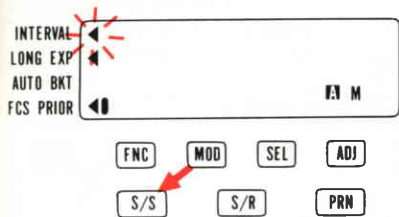
Interval Timer/Long Time Exposure/Freeze Focus (Focus Priority) Combination



1. Set Long Time Exposure, Interval Timer and Focus Priority as desired.

Make sure to set Long Time Exposure before Interval Timer set.

The three following indicators will appear: Long Time Exposure set indicator, Interval Timer set indicator and Focus Priority set indicator.

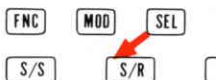
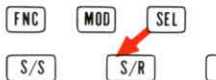


2. Push S/S button.

Long Time Exposures can be performed in freeze focus function with any number of shootings at set intervals, for any number of frames you set.

Interval Timer set indicator blinks throughout the operation; Long Time Exposure set indicator blinks each time shutter opens.

After all exposures are complete, the operation stops automatically, and both Interval Timer set indicator and Long Time Exposure set indicator stop blinking.



3. Cancel the settings.

Make sure you cancel the Interval Timer setting before cancelling Long Time Exposure setting.

- To stop the operation before all exposures have been taken, push S/S button.
- Depressing shutter release button during intervals triggers a Long Time Exposure as set, if subject is in focus.
- If subject does not enter preset focus position within approx. 10 seconds, camera omits that shooting and continues as usual from next shooting time.

LIQUID CRYSTAL DISPLAY (LCD)

1. Avoid using the MF-21 at high temperatures (60°C/140°F or above); the entire display turns black, making it hard to read display information.
2. Avoid storing the MF-21 in an excessively hot place, such as the trunk of a car parked in the sun. It could shorten the LCD's life.
3. When the temperature drops below freezing, the LCD's response time slows, and improper imprint may occur. When the temperature rises, the display works normally.
4. The MF-21's LCD is of the highest quality. After seven to ten years of normal use, however, contrast may deteriorate and display information may begin to fade. Should this occur, contact an authorized Nikon dealer or service facility to have the display replaced at a nominal charge.

CHANGING BATTERIES

If the MF-21's LCD begins to blink, the batteries must be replaced with a fresh set. After replacing the battery, reset data. At temperatures of -10°C (14°F) or colder, the LCD may blink even with new batteries, due to insufficient battery strength. If this happens, push PRN button to stop LCD blinking. When temperature rises, the batteries return to normal capacity.

1. Do not use any type of battery other than the 3V CR-2025-type lithium battery.
2. Do not install batteries in strong sunlight or bright illumination.
3. Do not dispose of batteries by burning, or disassemble batteries when disposing of them.
4. Keep batteries away from infants and small children. If battery is accidentally swallowed, call doctor immediately; the material inside batteries can cause serious injury.

TIPS ON MF-21 CARE

1. Do not shock the MF-21 or apply any sort of pressure to the LCD panel.
2. Do not use cleaning fluids to clean the MF-21.

ACCESSORIES

Camera Case Base Portion CF-39D

Use CF-39D in place of the standard lower part of the camera case when the MF-21 (or MF-20) is attached to the Nikon F-801/N8008 or F-801s/N8008s.

SPECIFICATIONS

Usable camera	Nikon F-801/N8008, F-801s/N8008s	Data imprint option	By pushing PRN button
Attachment method	Hinges to camera in place of standard camera back	Interval Timer function	Intervals can be set for up to 99 hours 59 minutes and 59 seconds; up to 99 shots can be taken between intervals, up to 99 times
Usable film speed	ISO 25 ~ 3200	Long Time Ex- posure function	Exposure duration available from 1 second to 99 hours 59 minute 59 seconds, with camera's shutter speed set at 'bulb' (may depend on life of main camera battery)
Imprint exposure adjustment	4 steps provided; automatically adjusted according to film speed in use; manual adjust- ment also available	Freeze Focus (Focus Priority) function	Controls camera's shutter release with focus signals from camera (with camera's focus mode set at M position)
Data imprint type	7-segment, 6-digit LCD with light from a built-in lamp	Auto Exposure Bracketing	Up to 19 frames can be taken for the same subject using a variety of exposures (with com- pensation degree from 1/3 to 2 steps between each frame)
Imprinted data	Year/Month/Day, Month/Day/Year, Day/Month/Year, Day/Hour/ Minute, frame count number same as that shown on main camera LCD; sequence number, fixed number, and shutter speed/aperture; date and time are automatically programmed and adjusted for leap years	Speedlight charge control	Turn on speedlight (having standby switch) one minute be-
Imprint area	Lower right-hand corner of pic- ture frame; 0.7mm (height) x 4.0 mm (width) when all 6 figures appear		

	fore shutter release during Interval Timer operation
Data adjustment	By pushing FNC, MOD, SEL and ADJ buttons
Data imprint signal	Transferred by camera body contacts
Data display	By 7-segment, 6-digit LCD
Power source	Two 3V lithium (CR-2025 type) batteries
Battery life	Approx. one year* at 20°C (68°F); built-in 24-hour-type clock starts from 00:00:00, January 1, 1988, whenever batteries are installed * May vary depending on extent of data imprint use, film speed in use and functions.
Timing accuracy	Within ± 30 seconds a month (20°C/68°F)
Temperature	-10°C (14°F) ~ +40°C (104°F) for usage; -20°C (4°F) ~ +60°C (140°F) for storage
Dimensions (WXHxD)	Approx. 139.7 × 60.8 × 29.0 mm (5.5 × 2.4 × 1.1 in.)

Weight (without batteries) Approx. 90 g (3.2 oz.)

Specifications and design are subject to change without notice.