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FLASH PHOTOGRAPHY



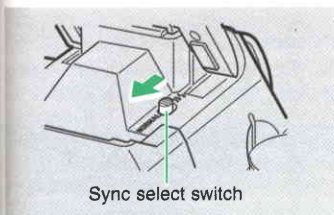
Use of the flash is recommended with indoor and night-time photography when the shutter speed is 1/30 second or shorter. The camera incorporates the "TTL direct metering" function for controlling the built-in flash automatically from the camera when it is used together with a Contax TLA flash system.

When using the TLA360 flash, be sure to read "2. Taking photographs using a Contax TLA360 flash" (page 78).

Refer to page 81 when using a non-dedicated flash with only an X contact.

◆ M (manual), modes

- In the "M" mode, the shutter speed is not set automatically. Be sure to set it to 1/125 seconds or slower.
- The set shutter speed is displayed in the viewfinder.



2 Set sync select switch to "NORMAL".

3 Set the aperture or shutter speed in accordance with the following table, and take the photograph.

Exposure mode	Aperture or shutter speed
P	Set automatically by camera.
Av, M	Set the aperture. Take the photograph at the set aperture.
Tv	The aperture is set automatically to the standard value for ambient light. Closed down automatically in bright light.

- The "⚡" mark flashes (twice per second) while the internal flash is charging. The shutter will not operate while the internal flash is charging.
- If the light is adjusted following photography, the "⚡" mark flashes rapidly (four times per second) for two seconds.
- If the "⚡" mark does not flash following photography, the subject is too far away resulting in under-exposure. Either move the camera closer to the subject, or open the aperture, and take the photograph. The distance range for photography is reduced if using reversal film, and photographs should be taken within the flash photography range shown on the following page.
- Over-exposure may still occur even if the "⚡" mark flashes following close-up photography. Photographs should be taken within the flash photography range shown on the following page.
- The ABC Exposure mode cannot be used with the flash.
- When drive mode "C" (continuous photography mode) is selected, the shutter operates repeatedly only waiting for the flash to charge.
- Use ISO25 to 800 film (does not include exposure compensation).

4 When photography is complete, close the internal flash by pressing it.

“**CF**” The flash may be set to reduce red-eye (*).

- * The pupil of the eye may sometimes appear red (red-eye) when taking photographs of people in dark locations. This setting reduces this problem.
- The flash is lit twice at approximately 0.7 second intervals, and the shutter operated simultaneously with the second flash. Take care to ensure that the camera and the subject remain stationary after the first flash.
- The effects of red-eye reduction differ between individuals.

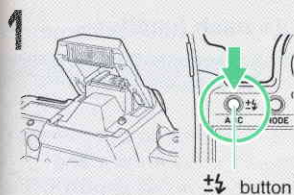
Range for internal flash photography (units in m)

Film speed (ISO)	ISO 100	ISO 400
Aperture		
F1.4	2.0 ~ 9.6 (m)	4.0 ~ 19.0 (m)
F2	1.4 ~ 6.7 (m)	2.8 ~ 13.4 (m)
F2.8	1.0 ~ 4.8 (m)	2.0 ~ 9.5 (m)
F4	1.0 ~ 3.3 (m)	1.5 ~ 6.6 (m)
F5.6	1.0 ~ 2.4 (m)	1.0 ~ 4.8 (m)

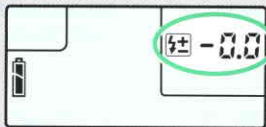
- The angle of illumination of the built-in flash is such that the angle of view is covered with a focal length of 28mm. When using wide-angle lenses of less than 28mm the edges of the scene will appear darker.
- When using the built-in flash, always remove the hood before taking photographs. Using the flash with the lens hood in place will restrict illumination of the scene, and the shadow of the hood may appear in some photographs.
- Always stand at least 1m from the subject when using the built-in flash. Photographs may appear darker if the distance to the subject is less than 1m.
- Illumination from the built-in flash is insufficient for use with the Vario-Sonnar 17-35mm F2.8 lens. Use a Contax TLA flash (except the TLA200) with this lens.
- When the distance to the subject is greater than the range of the internal flash, the light may not reach the subject and it will therefore be under exposed. In such cases, use an external Contax TLA flash with a high guide number.
- The built-in flash cannot be used simultaneously with a Contax TLA flash fitted on the accessory shoe.
- Close the internal flash before fitting a Contax TLA flash.

<2. Light compensation with the internal flash>

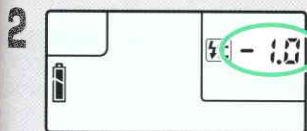
The internal flash may be used for light compensation with the camera in the same way as exposure compensation. The compensation range is -3EV to +1EV.



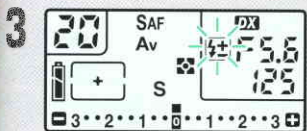
Display panel



Compensation setting mode



Compensation value set



Compensation setting completed



Display in viewfinder

1 Raise the internal flash and press the \pm button to select the light compensation setting mode.

2 Turn the F dial to set the compensation value.

3 Press the \pm button to set light compensation.

" \pm " is added to the display panel.
" \pm " is displayed in the viewfinder.

- The set light compensation is saved in memory until the camera is switched OFF or the internal flash is retracted. **Always cancel the setting after photography with light compensation.**

- The compensation value is returned to "0.0" after it is cancelled.

4 Check that " \pm " is lit in the viewfinder (charging complete) before taking the photograph.

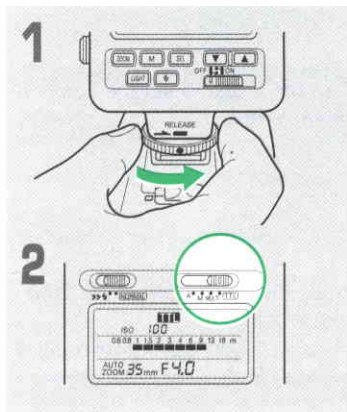
2. Taking photographs using a Contax TLA flash

A Contax flash unit is controlled from the camera in the same way as an internal flash to permit simple flash photography.

A flash unit separated from the camera is recommended when photographing subjects at a distance beyond the range available with the internal flash.

<1. Taking photographs using the TTL auto flash function>

The amount of light from the flash reflected off the subject onto the film is measured (TTL direct metering) to control the intensity of the flash.



1 Fit the TLA flash to the camera accessory shoe shown and switch the flash power supply ON.

- The built-in flash cannot be used simultaneously with a Contax TLA flash fitted on the accessory shoe.

2 Set the flash to the “TTL auto mode”.

When the flash is charged the “⚡” mark is lit in the viewfinder and the shutter speed is set automatically in accordance with the camera exposure mode.

❖ Av (aperture priority auto)

Metered value of ambient light	Automatically set shutter speed	Display
32 to 1/60 sec.	1/60 sec.	“60” lit
1/60 to 1/125 sec.	1/60 to 1/125 sec.	“60” to “125” lit
1/125 to 1/4000 sec.	1/125 sec.	“125” flashes (*)

* “125” flashes to indicate overexposure. Close the aperture until the flashing ceases and the LED is lit continuously.

❖ Tv (shutter priority auto)

Set shutter speed	Automatically set shutter speed	Display
32 to 1/125 sec.	32 to 1/125 sec.	Set shutter speed
1/125 to 1/4000 sec.	1/125 sec.	"125" lit

❖ P (program auto)

Metered value of ambient light	Automatically set shutter speed	Display
32 to 1/60 sec.	1/60 sec.	"60" lit
1/60 to 1/125 sec.	1/60 to 1/125 sec.	"60" to "125" lit
1/125 to 1/4000 sec.	1/125 sec.	"125" lit

❖ M (manual exposure)

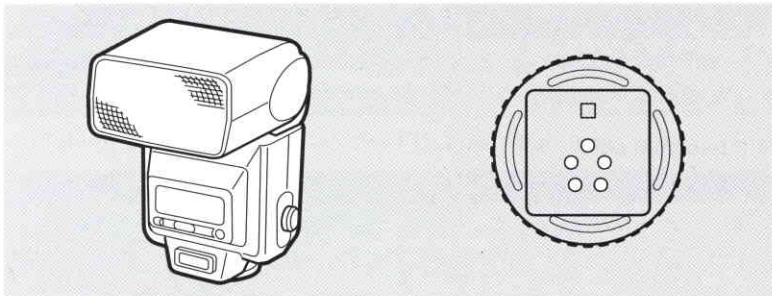
- The shutter speed is not set automatically with "M" selected. Always set to 1/125 sec. or less.
- The set shutter speed is displayed in the viewfinder.

3 Set the aperture or shutter speed in accordance with the table below, and take the photograph.

Exposure mode	Aperture or shutter speed
P	Set automatically by camera.
Av, M	Set the aperture. Take the photograph at the set aperture.
Tv	The aperture is set automatically to the standard value for ambient light. Closed down automatically in bright light.

- If the light is adjusted following photography, the "⚡" mark flashes for two seconds.
- If the "⚡" mark does not flash following photography the subject is under exposed. Change the aperture and distance to the subject and take another photograph.
- Over-exposure may still occur even if the "⚡" mark flashes following close-up photography. Photograph within the range described in the manual supplied with the flash unit.
- The ABC Exposure mode cannot be used with the flash.
- Check the flash performance when selecting drive mode "C" (continuous photography mode).
- Use ISO 25-800 film (does not include exposure compensation).

<2. Taking photographs using a Contax TLA360 flash>

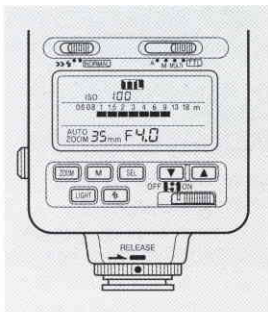


The TLA360 flash has a guide number 36 (ISO 100/35 mm lens angle of view). When used with this camera it offers the six functions described below in addition to regular TTL auto flash photography.

- These functions can be used when the flash unit is directly attached to the accessory shoe on the camera top.

The flash system is not automatically set when it is used off the accessory shoe and through the TLA extension code or TLA lighting system.

- With Contax TLA flashes equipped with the auto flash function, the flash mount has five contacts.



① Auto set function

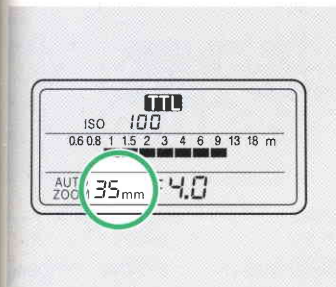
Function	Auto setting of film speed	Auto setting of aperture value
Flash photography mode		
TTL auto	<input type="radio"/>	<input type="radio"/>
External metering auto	<input type="radio"/>	<input type="checkbox"/>
Manual	<input type="radio"/>	<input type="radio"/>
Multi-flash	<input type="radio"/>	<input type="radio"/>

: The camera's settings are automatically set for the flash as well (after the flash is charged).

: The flash is not automatically set.

2 Auto setting of the angle of illumination

The flash's angle of illumination is set automatically according to the focal length of the lens mounted on the camera.



❖ Making the setting

Mount the flash on the camera's accessory shoe and turn it "on" the flash. The angle of illumination is set automatically according to the lens mounted on the camera.

The flash display panel indicates the automatically set angle of illumination for the focal distance of a 35 mm lens.

- The focal length of the lens is set to 24 mm, 28 mm, 35 mm, 50 mm, 70 mm or 85 mm.
- When a zoom lens is mounted, this function works automatically in conjunction with the lens setting within the above range.
- If the lens is replaced when "AUTO ZOOM" is indicated on the flash, the angle of illumination is reset according to the new lens.

3 Manual setting of the angle of illumination

When the flash's zoom button is pressed, the manual setting mode is set. The zoom focal length switches each time the zoom button is pressed. Display the desired focal distance on the display panel.

④ Flash intensity compensation

This is available only in the TTL auto flash photography mode.

Compensation is not possible in other modes.

- The flash intensity can be compensated within the range of -3 EV to +1 EV in 1/3 EV steps.
- The flash intensity is compensated in conjunction with the camera's exposure compensation value. If for example the camera's exposure compensation is "+1" and the flash's compensation is set to "+1", the flash intensity compensation is "+2EV".

1 Press the flash's "SEL" button.

- The compensation scale appears on the display panel and the "+/-" mark flashes.

2 Use the flash's "▲" and "▼" (up and down) buttons to set the compensation scale to the desired value.

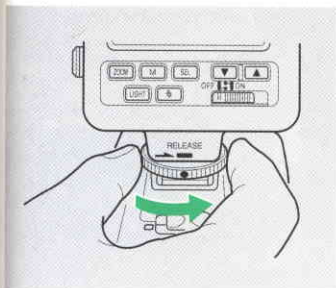
3 Press the "SEL" button again. The "+/-" mark stops flashing, remaining lit, and the compensation is set.

- The compensation scale on the flash's display panel indicates the compensation value for the flash.
- If the flash's compensation value is set to "0" (no compensation), the compensation scale turns off after 8 seconds.

⑤ "Auto off" and "auto on" functions

When the flash's power switch is set to "auto off", the flash's power turns off automatically after approximately 80 seconds. When the camera's shutter release button is half-pressed, the flash automatically turns on and charging starts.

These functions help save power when using the flash for long periods of time.



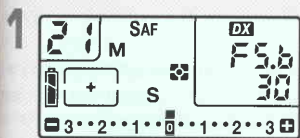
⑥ Shoe stopper

The TLA360's "mount" is equipped with a shoe stopper that prevents the flash from accidentally coming off the camera.

When attaching and removing the flash from the camera, be sure to line up the flash's "mount" mark with the mark on the shoe lock ring.

* The TLA360 is equipped with a variety of other functions as well. Be sure to read the TLA360's operating instructions to take advantage of all the flash photography possibilities the TLA360 has to offer.

3. Taking photographs using other flashes with the X contact

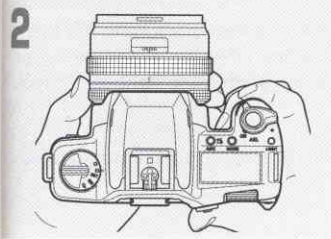


1 Fit the flash to the camera, select "M" as the exposure mode, and set the shutter speed to a maximum of "X125".

2 Set the aperture and take the picture.

Determine the aperture by following the flash's operating instructions.

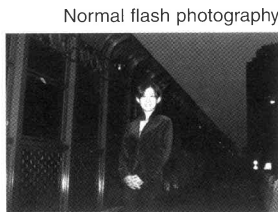
- For non-direct contact flashes requiring cords, connect the flash to the synchronization terminal on the side of the camera.



4. Flash photography techniques



Slow synchronization photography



Normal flash photography

<1. Slow synchronization photography>

Slow synchronization with the shutter speed set at 1/30 second or slower less can be effective for shooting evening or night views using a flash. Slow synchronization often adds more ambient light to the final picture. When the TLA flash's TTL auto mode is used, photographs can easily be taken with slow synchronization.

❖ When the exposure mode is set to "P" or "Av"

Determine the composition, then set the main switch to "AEL". The shutter speed is locked at the metered value of the ambient light. Check that the flash is charged, then take the photograph.

❖ When the exposure mode is set to "Tv"

Set the shutter speed to 1/30 sec. or less. Compose the picture and then set the main switch to "AEL". The aperture is locked at the metered value of the ambient light. Check that the flash is charged, and then take the photograph.

❖ When the exposure mode is set to "M"

Set the shutter speed to 1/30 seconds or less. Adjust the aperture to set the exposure to the metered value of the ambient light so that the exposure meter indicates that the exposure is appropriate, then check that the flash is charged and take the photograph.

- The shutter speed is slow when slow synchronization is used, so use a tripod to prevent camera shake.



Daylight synchronization photography

When no flash is used



<2. Daylight synchronization photography>

When taking photographs outdoors, for example of people in bright sunlight or lit from behind, the people tend to be dark in the resulting photograph. In such cases, photographs in which both the people and the background are well exposed can be achieved by using the internal flash or the TLA flash in the TTL auto mode.

❖ When the exposure mode is set to “P”

In bright scenes, the aperture and shutter speed are adjusted automatically and the daylight synchronization mode is set.

❖ When the exposure mode is set to “Tv”

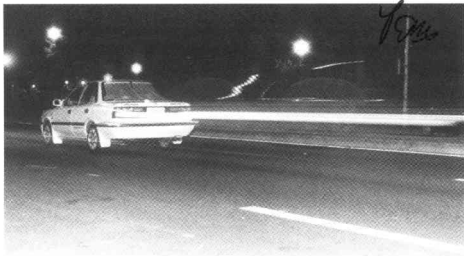
In bright scenes, the aperture is adjusted automatically and the daylight synchronization mode is set.

❖ When the exposure mode is set to “Av”

If “125” flashes in the shutter speed indication after the flash is charged, the picture will likely be overexposed. Decrease the aperture so that a shutter speed of under “125” is displayed, then take the picture.

❖ When the exposure mode is set to “M”

When in the “M” mode, set the shutter dial to $1/125(\times 125)$ or less. Adjust the aperture so that the exposure meter in the viewfinder indicates that the exposure is appropriate, then take the photograph.



Second curtain synchronization



First curtain synchronization

<3. Second curtain synchronization>

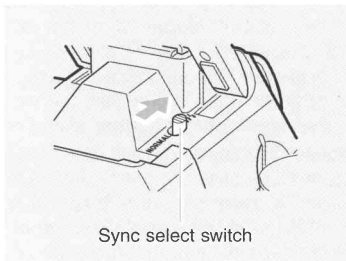
Taking photographs with second curtain synchronization is effective for shooting moving subjects using slow synchronization.

Normally with flash photography the flash is emitted directly after the shutter's front curtain has finished traveling (first curtain synchronization).

When an internal flash or a Contax flash equipped with the second curtain synchronization function is used, the flash can be triggered immediately before the shutter's rear curtain begins movement (second curtain synchronization).

The "ghost" movement of the subject thus appears more natural.

① Second curtain synchronization photography with the internal flash

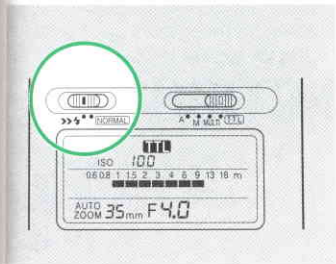


1 Set the sync select switch to " >>⚡ ".

2 Check that the " ⚡ " mark in the viewfinder is lit (flash is charged), and take the photograph.

- Exposure control is the same as for normal flash photography (first curtain synchronization).

② Second curtain synchronization photography with a Contax TTL auto flash

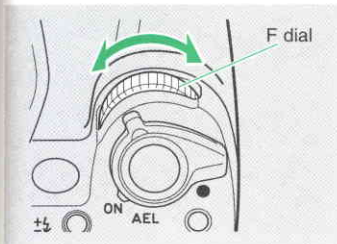


1 Set the sync select switch to “>>⚡”.

2 Check that the “⚡” mark in the viewfinder is lit (flash is charged), and take the photograph.

- Exposure control is the same as for normal flash photography (first curtain synchronization).


<4. Use with exposure compensation>



The flash intensity is compensated in conjunction with the camera's F dial exposure compensation with TTL auto flash photography. Use the F dial to adjust flash intensity for maximum effect.



CUSTOM FUNCTIONS



The functions of this camera can be customized to match your shooting style. As you work with this camera you will develop your own personal approach.

1. List of custom functions

This camera is equipped with the 20 custom functions, shown on the table below. When the camera is first purchased, these are all set to the standard or "default" functions (standard setting number "0"). (Note that all the explanations in this manual assume the detail numbers are set to "0"). To change the custom functions, refer to "Setting custom functions" (page 89).

• When the custom functions are set, the camera's functions and operating procedures change. Read this section carefully and be sure to use these features to your best advantage.

<List of Custom Functions>

Detail number Function number	Standard setting (0)	Changed setting (1)	Changed setting (2)	Changed setting (3)
① Power hold time • Illumination time also changed.	16 sec.	12 sec.	8 sec.	4 sec.
② AE lock by half-pressing the shutter button	No AE lock	AE lock on	_____	_____
③ Shutter time setting step	1 Tv	1/2 Tv	_____	_____
④ Exposure compensation step	1/3 EV	1/2 EV	_____	_____
⑤ Evaluative metering display	Exposure compensation value	Difference to the center divided partial metering	Difference to center-weighted average metering	_____
⑥ ABC Exposure order	Standard → over → under	Over → standard → under	_____	_____
⑦ AF target setting	Focus frame select lever	LIGHT button + focus frame select lever	_____	_____
⑧ AF supplementary light	On	Off	_____	_____
⑨ AF focus beep	On	Off	_____	_____
⑩ Superimpose when shutter button half-pressed	On	Off	_____	_____

Detail number Function number	Standard setting (0)	Changed setting (1)	Changed setting (2)	Changed setting (3)
⑪ Superimpose when focused	On	Off	_____	_____
⑫ Rewind auto return	Auto return on	Auto return off	_____	_____
⑬ Leave film tip when rewinding	Film tip not left	Film tip left	_____	_____
⑭ Selection of aperture stop-down button operation	Aperture stopped down while pressed	Aperture switches between stopped down and open each time button is pressed	_____	_____
⑮ Focus button function in "MF" mode	SAF	CAF	_____	_____
⑯ Red-eye reduction with internal flash	Off	On	_____	_____
⑰ Exposure compensation setting (with Av, P)	F dial	F dial and R dial	_____	_____
⑱ Exposure value display when zoom lens is fitted (*)	Align aperture ring	Link to zooming	_____	_____
⑲ Continued exposure compensation	Until power supply OFF	Until setting cancelled	_____	_____
⑳ Exposure compensation setting	F dial	Set with F dial while pressing LIGHT button	_____	_____

CLE: Resetting custom functions

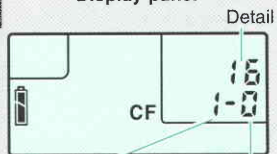
The custom functions (①~⑳) are always set to the standard settings.

- Note that if the exposure mode selector lever is set to any position other than "CF" at this time, all the custom functions are reset to the standard settings (i.e. to "0").

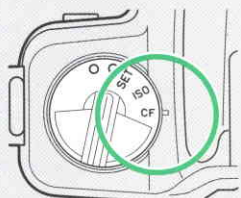
* When using lenses for which the open aperture value (brightness) with zooming varies (eg. Vario Sonnar 28-80mm F3.5-5.6), the actual aperture is controlled by the camera so that it assumes the value set with the aperture ring, rather than being controlled by zooming. Set Custom Function ⑱ to (1) to vary the aperture with zooming.

2. Setting custom functions

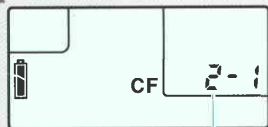
1 Display panel



Function number
Detail number
Custom function setting mode

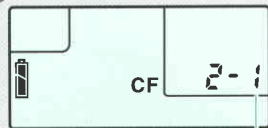


2



Function number

3



Detail number

1 Set the position dial to "CF".

The display panel is as shown at left (custom function setting mode).

2 Turn the R dial to select "Function number".

3 Turn the F dial to select "Detail number".

4 Set the position dial to a position other than "CF".

The custom function is set.

Return the dial to "O" (white) or "C" (green) and take the photograph.

The display panel returns to the normal display.

- To initialize all set functions, display "CLE" as previously described in 2, and set to a position other than "CF".



REFERENCE



<Exposure>

Exposure is the act of exposing the film to light, thus converting brightness values in a scene to tonal values on film. Exposure is composed of the size of the opening in the lens (the aperture) and the duration of time in which the light passes through the lens to strike the film (the shutter speed.)

<Shutter speed>

The camera adjusts the amount of light to which the film is exposed by adjusting the length of time in which the shutter is open. The length of time that the shutter is open is called the shutter speed.

<Aperture value>

The aperture is an opening in the lens. The amount of light passing through the aperture to the film is adjusted by increasing or decreasing the diameter of the opening. The size of this opening is called the aperture value.

<Film speed or sensitivity (ISO value)>

The film speed indicates the extent to which the film reacts to light, and is expressed as a figure determined by the ISO (International Standardization Organization).

2. Troubleshooting

If there seems to be a problem, check the following table before assuming the camera is malfunctioning.

Symptom	Cause	Solution	See page
1. Nothing appears on the display panel	• No battery is loaded.	• Insert battery.	16
	• Battery is fully spent.	• Replace the battery with a new one.	16
	• Battery is loaded upside-down.	• Insert the battery properly.	16
2. Battery mark ("⌚") is flashing	• Battery is spent.	• Replace the battery with a new one.	17
3. Exposure counter flashes "00" when film is loaded and camera back is closed	• Film has not been advanced properly.	• Reload the film.	20
4. Viewfinder display is not clear	• Diopter is not properly adjusted.	• Turn the diopter adjustment dial to adjust.	15
5. Shutter cannot be released	• Drive mode is set to the "selftimer" mode.	• Switch to a different drive mode.	31
	• Internal flash is charging.	• Wait until charging is complete (i.e. "⚡" lit) before taking the photograph.	73

Symptom	Cause	Solution	See page
6. Photographs are blurry	<ul style="list-style-type: none"> • Focus is not properly adjusted. • Camera is shaking when shutter button is pressed. • Shutter speed is slow. 	<ul style="list-style-type: none"> • Adjust the focus properly. • Press the shutter button gently so that the camera does not shake. • Use a tripod. 	38 19, 27
7. Exposure compensation mark is displayed.	<ul style="list-style-type: none"> • Exposure compensation is still set. 	<ul style="list-style-type: none"> • Set the exposure compensation back to "0.0". • Turn the main switch OFF. 	58 58
8. Shutter speed or aperture value flashes during auto photography	<ul style="list-style-type: none"> • Subject is either too bright or too dark. 	<ul style="list-style-type: none"> • Adjust the exposure as described on page 54. 	54
9. Exposure counter is flashing (other than "00")	<ul style="list-style-type: none"> • ABC mode is set. 	<ul style="list-style-type: none"> • Set ABC compensation back to "0.0". 	62
10. Metering mark flashes when shutter button is half-pressed	<ul style="list-style-type: none"> • "AE lock on" selected when half-pressed. 	<ul style="list-style-type: none"> • Set custom function to "2-0". 	87

3. Shutter speed and aperture value display

The shutter speed and aperture value are displayed as described below.

- The shutter speed display indicates shutter speeds between "4000" (1/4000 second) and "32" (32 seconds). When the camera's exposure mode is set to "Av" or "P", the shutter speed value with respect to the aperture is displayed in steps of 1/2, and when the exposure mode is set to "Tv" or "M", the set shutter speed value is displayed at every step (may also be displayed in steps of 1/2 with modes "Tv" and "M" in the "CF" mode).
- The aperture value is displayed in steps of 1/2 within the aperture range of the currently mounted lens. When operating with a precision of greater than 1/2 step, the closest value is displayed. For example, when the aperture is 3.3, the aperture is displayed "3.5".

Shutter speed		Aperture value	
Av or P (displayed in steps of 1/2Tv as custom function with Tv and M)	Shutter speed set in modes Tv and M	All modes	
4000	10	4000	1.2
2800	8	2000	1.4
2000	6	1000	1.7
1400	4	500	2.0
1000	3	×250	2.4
700	2	125	2.8
500	0" 7	60	3.5
350	1"	30	4.0
250	1" 4	15	4.5
180	2"	11	5.6
125	2" 8	8	6.5
90	4"	4	8.0
60	5" 6	2	9.5
45	8"	1"	11
30	11"	2"	13
20	16"	4"	16
15	22"	8"	19
	32"	16"	22
		32"	27
			32
			38
			45

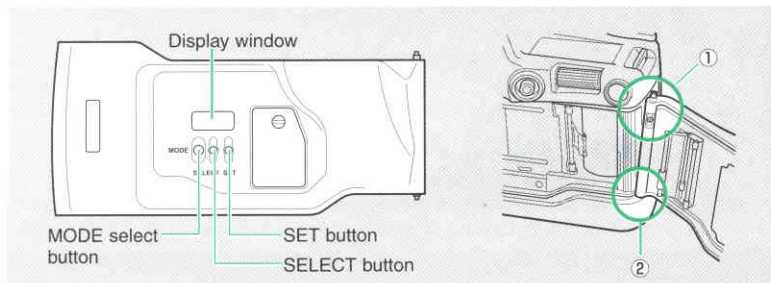


MAIN ACCESSORIES



This section describes the main accessories for expanding the range of photographic possibilities.

1. Contax Data back D-11



The D-11 is a quartz clock-controlled LCD data back mounted on the camera in place of the Contax NX camera back.

The auto date mechanism allows automatic imprinting of the date and time on the film.

<Fitting to the camera>

1 Open the standard camera back, hold the release pin down, and remove the back.

2 Insert the bottom of the shaft on the data back into the corresponding hole in the camera, hold the release pin down, align the top of the shaft with the corresponding hole in the camera, and release the pin. The data back is now fitted to the camera.

Data back specifications

Type: Quartz clock-controlled (auto calendar) LCD data back

Imprint function: Year Month Date, Date Hour Minute, No imprint, Month Date Year, Date Month Year

Imprint method: Automatic imprinting linked to shutter movement

Film speed setting: Automatic

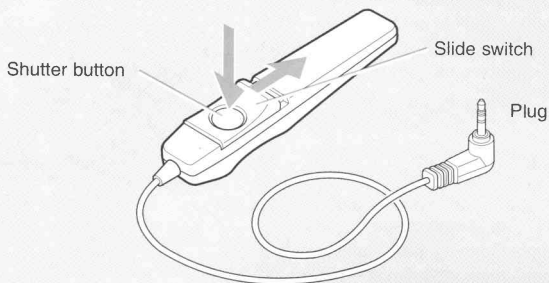
Battery: 3V lithium (CR2025)

Dimensions: 139mm (width) x 62mm (height) x 12mm (depth)

Weight: 75g (excluding battery)

* Specifications and appearance liable to change without prior notice.

2. Contax Cable switch LA type



The Cable switch LA type can be used for close-up or tele photograph photography when using a tripod or to release the shutter remotely from the camera. It is especially suited for close-up or tele photograph photography because it eliminates the risk of camera shake when the shutter is released.

Photographs are taken using the cable switch's shutter button (which also has a half-press function). The slide switch offers convenience for extended exposures and continuous shooting.

The cord length is 50 cm for the LA-50, 5 meters for the LA-500.

<Attaching>

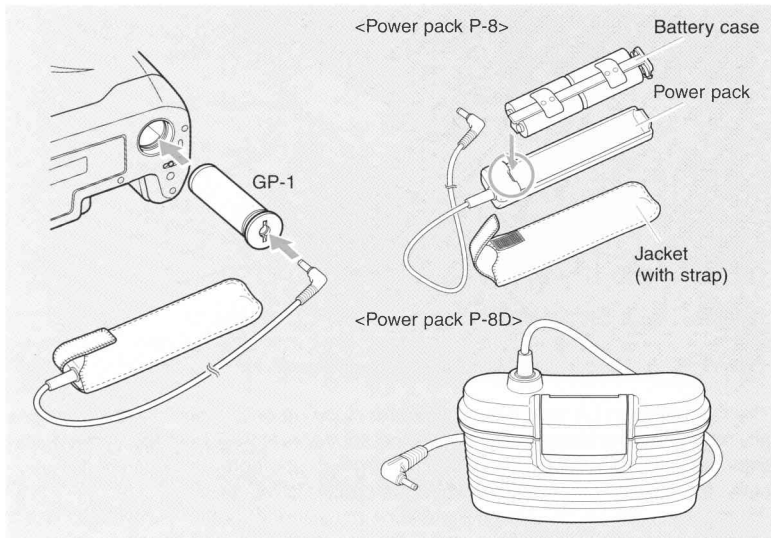
Insert the cable switch's plug into the camera's cable switch socket.

<Taking photographs>

The cable switch's shutter button functions in the same way as the camera's shutter button. Half-press it to measure the distance or light or to lock the focus, press it all the way in to release the shutter.

When taking long-time exposures or using continuous advance, use the slide switch for convenience. The shutter operates continuously when the slide switch is pulled forward (when the red mark is visible), and closes (exposure stops) when the switch is set back to its original position.

3. Contax Power pack P-8, P-8D



The Power pack P-8 is an external power supply using four 1.5V LR6/AA NiH batteries or four 1.2V LR6/AA Ni-Cd batteries. This pack allows the camera to be used with a remote power supply kept in a warm place. This prevents loss of battery performance due to the influence of cold working conditions.

The Power pack P-8D is an external power supply using four 1.5V D-size NiH batteries. Use it as required when large numbers of photographs are to be taken.

* The separately available GP-1 Contax power pack adapter is required when using the P-8D in conjunction with the Contax NX.

<Mounting>

1. Fit the GP-1 Contax power pack adapter to the camera.

Remove the lithium batteries from the camera, insert the GP-1, and turn to lock in place.

- Keep the battery cover in a safe place.

2. Load the batteries in the Power pack.

[P-8]

- ① Insert four AA-size batteries in the battery case (supplied with the P-8 power pack) as shown, and fit to the P-8.
- ② Place the P-8 main unit inside a jacket (case).

[P-8D]

Insert the batteries as described in the manual supplied with the P-8D.

3. Insert the plug on the power pack cord in the socket on the GP-1 adapter.

- When shooting, place the power pack in a thermal cover to prevent heat loss.
- When replacing batteries, do not mix different types of batteries, or old batteries with new batteries. Replace all four batteries at the same time with new batteries of the same type.
- When not using the power pack for a long period of time, remove the batteries from the battery case to prevent leakage of battery fluid.
- Hold the plug when disconnecting. Do not pull on the cord.

■ P-8 specifications

Configuration: Power pack body, battery case, jacket (with strap), cord (1.5m).

Power supply: Four 1.5V AA-size alkali batteries, or four 1.2V AA-size NiH batteries (cheap AA-size manganese batteries have insufficient capacity and should not be used).

■ Batteries and Films

Lens : VS28-80/3.5-5.6

Film : 24-exposure cartridge

Battery type : 1.5V AA-size alkali dry battery

Condition A: Close-up $\rightarrow \infty \rightarrow$ close-up, single shutter release, leave for 16 seconds.

	Normal temperature (20°C)	Low temperature (-10°C)
Not using flash	Approx. 20 rolls	Approx. 12 rolls
Using flash 50% of time	Approx. 10 rolls	Approx. 6 rolls
Using flash 100% of time	Approx. 8 rolls	Approx. 4 rolls

Condition B: Close-up $\rightarrow \infty \rightarrow$ close-up, single shutter release, leave for 4 seconds.

	Normal temperature (20°C)	Low temperature (-10°C)
Not using flash	Approx. 50 rolls	Approx. 25 rolls
Using flash 50% of time	Approx. 15 rolls	Approx. 8 rolls
Using flash 100% of time	Approx. 10 rolls	Approx. 5 rolls

Battery type : 5V AA-size lithium battery

Condition A: Close-up $\rightarrow \infty \rightarrow$ close-up, single shutter release, leave for 16 seconds.

	Normal temperature (20°C)	Low temperature (-10°C)
Not using flash	Approx. 60 rolls	Approx. 25 rolls
Using flash 50% of time	Approx. 25 rolls	Approx. 15 rolls
Using flash 100% of time	Approx. 15 rolls	Approx. 12 rolls

Condition B: Close-up $\rightarrow \infty \rightarrow$ close-up, single shutter release, leave for 4 seconds.

	Normal temperature (20°C)	Low temperature (-10°C)
Not using flash	Approx. 150 rolls	Approx. 50 rolls
Using flash 50% of time	Approx. 40 rolls	Approx. 20 rolls
Using flash 100% of time	Approx. 20 rolls	Approx. 15 rolls

Battery type : 1.2V AA-size NiH battery (fully charged)

Condition A: Close-up $\rightarrow \infty \rightarrow$ close-up, single shutter release, leave for 16 seconds.

	Normal temperature (20°C)	Low temperature (-10°C)
Not using flash	Approx. 30 rolls	Approx. 25 rolls
Using flash 50% of time	Approx. 15 rolls	Approx. 12 rolls
Using flash 100% of time	Approx. 10 rolls	Approx. 8 rolls

Condition B: Close-up $\rightarrow \infty \rightarrow$ close-up, single shutter release, leave for 4 seconds.

	Normal temperature (20°C)	Low temperature (-10°C)
Not using flash	Approx. 80 rolls	Approx. 60 rolls
Using flash 50% of time	Approx. 20 rolls	Approx. 15 rolls
Using flash 100% of time	Approx. 15 rolls	Approx. 10 rolls

■ P-8D specifications

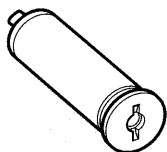
Type: Contax camera external power supply, cord (1.5m)

Power supply: Four 1.5V D-size dry batteries, or four 1.2V D-size NiH batteries (D-size manganese batteries have insufficient capacity and should not be used).

Cord: Approximately 1.5m

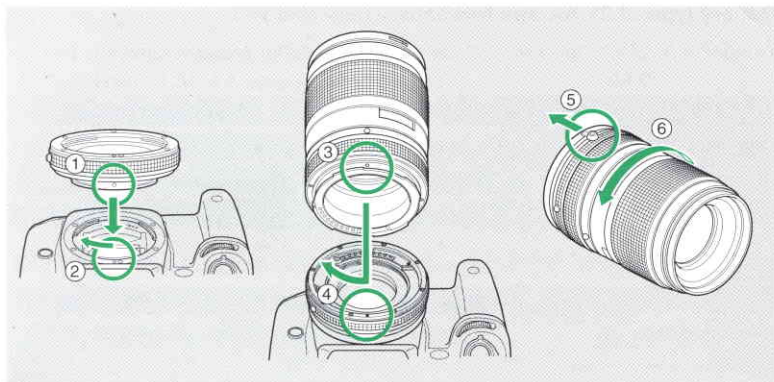
Dimensions: 148mm (width) x 84mm (height) x 58mm (depth)

Weight: 160g (excluding batteries)



The GP-1 adapter is used in combination with the Contax power packs P-8 and P-8D when used as external power supplies for the Contax NX.

5. Contax Mount adapter NAM-1



This adapter allows the use of Contax 645 System lenses with the Contax NX. Usable with all NX models.

<Mounting the mount adapter and lens>

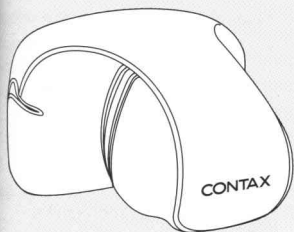
1. Line up the body mount mark ① on the mount adapter with the camera's lens mark ②. Insert, then turn in the direction of the arrow to mount.
2. Line up the mark on the lens (red) ③ with the lens mount mark on the adapter ④, then turn in the direction of the arrow to mount.

<Removing>

1. To remove the lens, slide the mount adapter's release button ⑤, hold it there, then turn the lens counterclockwise ⑥ and remove it.
2. To remove the mount adapter, turn it counterclockwise while pressing the camera's lens release button.

6. Contax Flexible case C-9

By extending or contracting the tip of the case, the NX can be placed in the case with the Data back D-11 and the following Carl Zeiss T* lenses mounted (645 mount lenses require the NAM-1 mount adapter).



Lenses (with one filter, lens cap, and hood (reversed))

Case	Tip	N mount lens	645 mount lens
C-9	Contracted	VS28-80/3.5-5.6 P50/1.4	P80/2
	Extended	VS70-200/3.5-4.5 VS24-85/3.5-4.5 VS17-35/2.8* (* without hood)	S140/2.8 D55/3.5

* Use the C-8 flexible case (for the N1) when the MS100/2.8, VS70-300/4.0-5.6, and 645 mount lens AMP 120/4, D45/2.8, D3.5/3.5 (* without hood) lenses are fitted.

- Type:** 35mm focal plane type AF/AE single lens reflex camera
- Picture size:** 24 x 36mm
- Lens mount:** Contax N mount
- Shutter type:** Vertical travel focal plane shutter
- Shutter speed:** **Av, Tv and P:** 32~1/4000 sec.
M: 32~1/4000 sec. and bulb
X: 1/125 sec. (M mode)
- Sync contact:** X contact (synchronized at up to 1/125 sec.)
 Direct contact and synchronization terminal included
- Selftimer:** Electronic type, 10 sec. delay
- Shutter release:** Electronic release, with dedicated cable switch socket
- Exposure control:** ① Aperture priority auto ② Shutter priority auto ③ Program auto
 ④ Manual exposure ⑤ TTL auto flash
- Metering system:** TTL evaluative metering, center-weighted average metering, or center divided partial metering selectable
- Metering range (ISO 100, F1.4):**
 Evaluative metering : EV 0~21
 Center-weighted average metering : EV 0~20
 Center divided partial metering : EV 3~20
- Film speed range:** Automatic setting with DX code ISO 25~5000
 Manual setting ISO 6~6400
- AE lock:** Image surface value memory
- Exposure compensation:**
 +3EV~-3EV (in steps of 1/3 or 1/2)
- ABC mechanism:** Exposure compensation with ABC button and F dial setting
 Compensation range $\pm 1/3EV/\pm 1/2EV/\pm 1EV$
- Internal flash:** Guide number 13.5 (ISO 100), angle of illumination up to a focal length of 28mm, red-eye reduction flash
- Automatic flash intensity adjustment:**
 TTL direct metering
- Flash synchronization:**
 Automatic selection of shutter speed when flash charged
- Flash auto setting function:**
 Possible by combination with Contax flash unit with flash auto setting function
- Second curtain synchronization:**
 Possible **with internal flash or** Contax flash unit with second curtain synchronization function
- Autofocus:** 5-point TTL phase difference detection

- Viewfinder:** Pentaprism eye-level (long-eye point)
 • Field of view 93% • Magnification 0.78x
 (with 50mm standard lens at infinity, -1D diopter)
- Diopter correction:** Eight different FL type lenses are available
- Focusing screen:** Fixed, full matte
- Viewfinder display:**
 Focus frame, exposure counter/selftimer time/ABC shooting order/film loading, flash mark, compensation mark, focus display, aperture value, shutter speed, metering mark, exposure meter, exposure compensation mark, manual exposure mark
- Display panel:** Exposure counter/selftimer time/ABC shooting order/bulb elapsed time/film loading, battery mark, distance display, focus mode (manual focus, single autofocus, continuous autofocus), exposure mode (manual exposure, aperture priority auto, shutter priority auto, program auto), metering display (center divided partial metering, center-weighted average metering, evaluative metering), drive mode (selftimer photography, single-frame photography, continuous photography), DX/ISO mark, ABC compensation mark, internal flash intensity compensation mark, aperture value/ABC compensation/internal flash intensity compensation, shutter speed/film speed/custom functions, exposure compensation, CF mark
- Film loading:** Auto loading with automatic advance to exposure counter "01"
- Film advance:** Automatic with built-in motor
- Film rewind:** Automatic with built-in motor (with auto return/auto stop function), mid-roll rewinding possible
- Drive modes:** Single frame, continuous, 10 sec. delay selftimer
- Winding speed:** Up to approximately 2.3 frames/sec. continuous shooting ("C" mode) (using a new battery, at normal temperature, and based on Contax testing standards)
- Exposure counter:** Auto reset additive type for display panel and viewfinder
- Accessory shoe:** Direct X contact (with TLA flash interlocking contacts)
- Custom functions:** See list of custom functions on page 86
- Camera back:** Opened and closed with camera back release lever, removable, with film check window
- Batteries:** 3V lithium battery (CR2) x 2
- Battery check:** Auto check, indicated on display panel

Number of films: Using a new battery based on Contax testing standards

Lens: VS28-80/3.5-5.6

Film: 24-exposure cartridge

Condition A: Close-up → ∞ → close-up, single shutter release, leave for 16 seconds.

	Normal temperature (20°C)	Low temperature (-10°C)
Not using flash	Approx. 25 rolls	Approx. 12 rolls
Using flash 50% of time	Approx. 8 rolls	Approx. 5 rolls
Using flash 100% of time	Approx. 5 rolls	Approx. 3 rolls

Condition B: Close-up → ∞ → close-up, single shutter release, leave for 4 seconds.

	Normal temperature (20°C)	Low temperature (-10°C)
Not using flash	Approx. 60 rolls	Approx. 25 rolls
Using flash 50% of time	Approx. 10 rolls	Approx. 8 rolls
Using flash 100% of time	Approx. 7 rolls	Approx. 4 rolls

Miscellaneous: Aperture stop-down button, AF supplementary light

Dimensions and weight:

NX : 142mm (width) x 113mm (height) x 66mm (depth)
605g (Not including batteries)

NXD : 142mm (width) x 113mm (height) x 66mm (depth)
625g (with Data back, not including batteries)

* Note that specifications and design are subject to change without notice. In order to take full advantage of the functions of this product, we recommend using Carl Zeiss interchangeable lenses and Contax accessories. Contax warranties do not cover accidents or damage resulting from the use of products of other manufacturers, even when such products are sold for use with Contax products.