

SIGMA

ELECTRONIC FLASH

EF-530 DG SUPER

使用説明書

INSTRUCTIONS

BEDIENUNGSANLEITUNG

MODE D'EMPLOI

INSTRUCCIONES

ISTRUZIONI PER L'USO

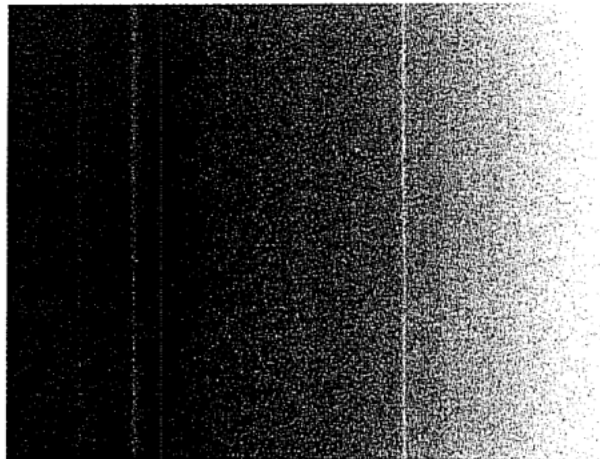
BRUGSANVISNING

GEBRUIKSAANWIJZING

用戶手冊

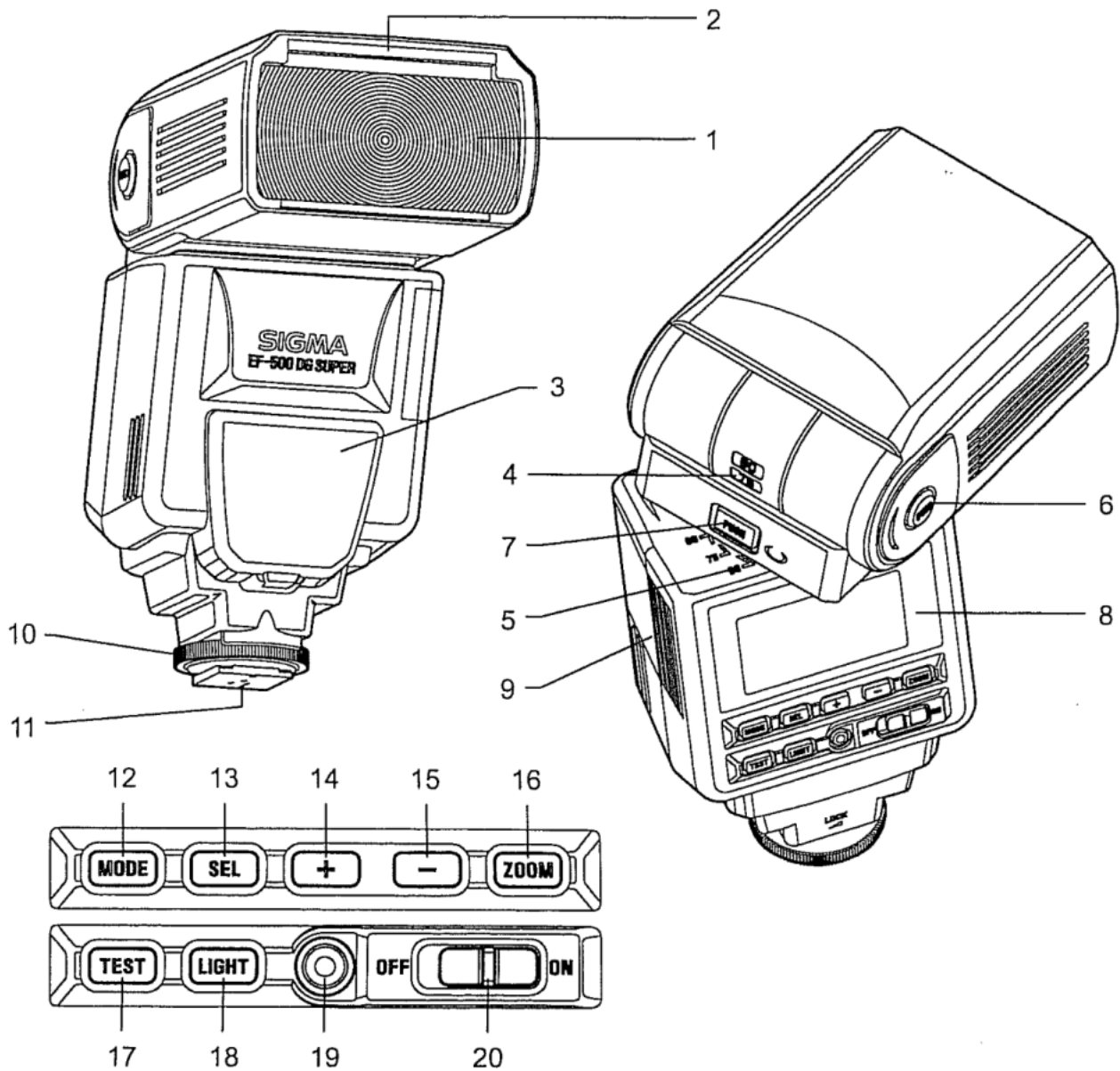
사용자 설명서

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ENGLISH

The CE Mark is a Directive conformity mark of the European Community (EC).

DEUTSCH

Die CE-Kennzeichnung ist eine Konformitätserklärung des Herstellers, die dokumentiert, daß das betreffende Produkt die Anforderungen von EG-Richtlinien einhält.

FRANÇAIS

Le label CE garantit la conformité aux normes établies par la Communauté Européenne.

NEDERLANDS

Het CE teken is een aanduiding voor de Europese Gemeenschap (EC).

ESPAÑOL

El logotipo CE es una directiva de conformidad con la Comunidad Europea (CE).

ITALIANO

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SVENSKA

CE-märket betyder att varan blivit godkänd av EU:s gemensamma kvalitetsnorm.

DANSK

CE-mærket er i overensstemmelse med de gældende regler i EU.

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ENGLISH


Thank you very much for purchasing the Sigma EF-530 DG SUPER PA-PTTL Electronic Flash. This product is specifically developed for the PENTAX AF series autofocus SLR cameras. Depending on the camera model, functions and operation may vary. Please read this instruction booklet carefully for your camera body. To add to your enjoyment of photography, the flash has a variety of features. To make the most of all these features, and to get the maximum performance and enjoyment from your flash, please read this instruction booklet, together with your camera's instruction manual, before using the flash, and also keep it handy for your future reference.


PRECAUTIONS

In order to avoid causing any damage or injury, please read this instruction manual very carefully, paying attention to the cautionary signs below, before using the flash.
Please take special note of the two cautionary signs below.





 **Warning !!** Using the product disregarding this warning sign might cause serious injury or other dangerous results.

 **Caution!!** Using the product disregarding this caution sign might cause injury or damage.








 Symbol denotes the important points, where warning and caution are required.

 Symbol contains information regarding the actions that must be avoided.

Warning !!

-  This flash contains high voltage circuits. To avoid electric shock or burns, do not attempt to disassemble the flash. If the outside shell of the unit is broken or cracked, do not touch the mechanism inside.
-  Do not fire the flash close to eyes. Otherwise the bright light could damage the eyes. Keep at least 1m/3feet distance between face and the flash unit, when taking a picture with flash.
-  Do not touch the synchro terminal of your camera when the flash is attached to hot shoe. High voltage circuitry could cause electric shock.
-  Never use your camera in an environment where flammable, burnable, gas, liquids or chemicals, etc, exist. Otherwise, it might cause fire or explosion.

Caution !!

-  Do not use this flash unit on any camera other than the PENTAX AF cameras; otherwise the flash may damage the circuitry of these cameras.
-  This flash unit is not waterproof. When using the flash and camera in the rain or snow or near water, keep it from getting wet. It is often impractical to repair internal electrical components damaged by water.
-  Never subject the flash and camera to shock, dust, high temperature or humidity. These factors might cause fire or malfunctioning of your equipment.
-  When the flash is subjected to sudden temperature change, as when the flash unit is brought from a cold exterior to warm interior, condensation might form inside. In such a case, place your equipment in a sealed plastic bag before such a change, and do not use the flash unit, until it reaches room temperature.
-  Do not store your flash in a drawer or cupboard etc., containing naphthalene, camphor or other insecticides. These chemicals will have negative effects on the flash unit.
-  Do not use a thinner, Benzene or other cleaning agents to remove dirt or finger prints from the component. Clean with a soft, moistened cloth.
-  For extended storage, choose a cool dry place, preferably with good ventilation. It is recommended that the flash be charged and fired several times a month, to maintain proper capacitor functioning.

DESCRIPTION OF THE PARTS

EXTERNAL PARTS

1.Flash Head 2.Built-in Wide Panel 3.AF Auxiliary Light 4.Bounce Angle; Up and Down
5.Bounce Angle; Right and Left 6.Bounce Lock and Release Button; Up and Down 7.Swivel Lock
and Release Button; Right and Left 8.LCD Panel 9.Battery Cover 10.Shoe Ring 11.Shoe

CONTROLS

12.MODE Button 13.<SEL> SELECT Button 14.< + > Increment Button 15.< - > Decrement Button
16.ZOOM Button 17.TEST Button 18.LIGHT Button 19.Ready Light 20.Power Switch

ABOUT THE BATTERY

This flash unit uses four "AA" type Alkaline dry cell batteries, Ni-Cad or Ni-MH rechargeable batteries. Manganese batteries can also be used but as they have a shorter life than Alkaline batteries, we do not recommend using them. Please replace batteries if it takes more than 30seconds to light the Ready Lamp.

- ◆ To assure proper electrical contact, clean the battery terminals before installing the batteries.
- ◆ Ni-Cad or Ni-MH batteries do not have standardized contacts. If you use Ni-Cad or Ni-MH batteries, please confirm that the battery contacts touch the battery compartment properly.
- ◆ To prevent battery explosion, leakage or overheating, use four new AA batteries of the same type and brand. Do not mix the type or new and used batteries.
- ◆ Do not disassemble or short-circuit the batteries, or expose them fire or water; they may explode. Do not recharge the batteries other than Ni-Cad or Ni-MH rechargeable batteries.
- ◆ When the flash will not be used for an extended period of time, remove the batteries from the flash to avoid the possibility of damage from leakage.
- ◆ Battery performance decreases at low temperatures. Keep batteries insulated when using the flash in cold weather.
- ◆ As with any flash, it is recommended you carry spare batteries when on a long trip or when photographing outdoors in cold weather.

BATTERY LOADING

1. Be sure to set the Power Switch to the off position then slide, the battery cover in the direction of the arrow to open.
2. Insert four AA size batteries into the battery chamber. Be sure the + and - ends of the batteries are aligned according to the diagram in the chamber.
3. Close the cover.
4. Slide the Power Switch to the ON position. After few seconds, the Ready Lamp will light, indicating that the flash unit can be fired.
5. Please press the "Test Button" to be sure that the flash is working properly.

AUTO POWER OFF


To conserve battery power, the flash unit automatically turns itself off when the flash is not used within approximately 3 minutes. To turn the flash on again, depress the **TEST** button or the camera shutter button, halfway. Please note that, "Auto Power Off" mechanism does not work with normal slave flash, and designated slave flash modes.

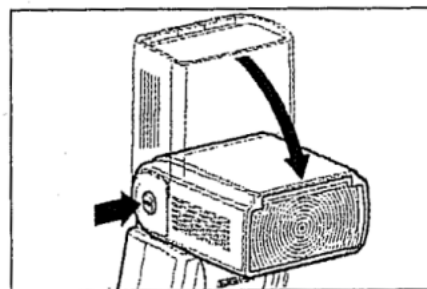
ERROR INDICATION

If the battery power is not sufficient or there is electric information error between the camera and flash unit, the "Er" mark will blink on the LCD panel. When this occurs, turn the power switch off and on. If it still blinks, after this procedure, check the battery power.

ADJUSTING THE FLASH HEAD

Depress the Bounce "Up and Down" Lock and Release Button, and adjust the flash head to the desired position.

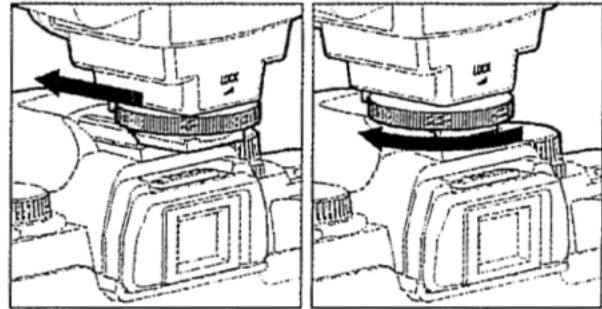
- ◆  appears on the LCD panel, when you turn on the flash, and if this mark blinks, then the flash head is adjusted to an incorrect position.



ATTACHING AND REMOVING THE FLASH TO AND FROM THE CAMERA

Be sure turn off the Power Switch. Then insert the Shoe Base into the hot shoe on the camera and turn the Shoe Locking Ring until it is tight.

- ◆ When you attach or remove the flash, grasp the bottom of the flash to prevent damage to the shoe foot and camera's hot shoe.
- ◆ If the camera's built-in flash is set in up position, please close it before you attach the flash unit.
- ◆ To remove the flash, rotate the shoe-locking ring in the opposite direction of ◀LOCK mark, until it stops.



SETTING OF FLASH COVERAGE ANGLE

When you press the **ZOOM** button **M** symbol appears. Each time you press the **ZOOM** button, the LCD panel display will change and indicate the zoom position in sequence, as follows.

24mm → 28mm → 35mm → 50mm → 70mm → 85mm → 105mm → (Auto)

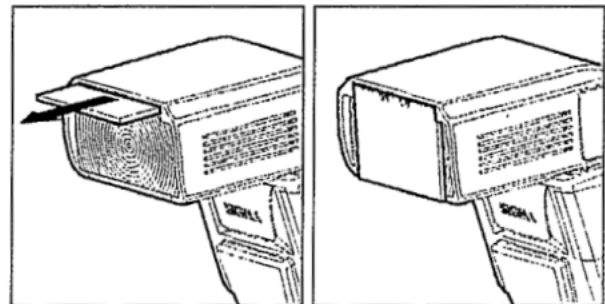
When you use with DA, DFA, FA, FAJ, F type lenses or SIGMA AF lenses, the flash will be automatically set the zoom head position according to the focal length of your lens.

- ◆ When you use a digital SLR camera, the angle of view difference between the focal length of 35mm film camera and focal length of the digital SLR camera will be automatically converted.
- ◆ When you turn on the main switch, the flash will memorize and set the zoom head position to the last setting used.
- ◆ If you use a lens wider than the flash head setting, there may be under exposed areas around the edge of the picture.
- ◆ Depending on the flash head setting, the flash's Guide Number will be changed.

WIDE PANEL

This flash is equipped with built in type wide panel, which can provide ultra wide 17mm angle of coverage. Slide out the wide panel and flip it down to cover flash's head. Then the coverage angle setting of the flash will be set to 17mm automatically.

- ◆ If the built-in wide panel comes off accidentally, the **ZOOM** button will not function. In this case please contact the store where you have purchased the flash, or a service station.



LCD PANEL ILLUMINATION

When you press the **LIGHT** button, the LCD panel will illuminate for about 8 seconds. The illumination stays on longer than 8sec, if you press the **LIGHT** button once again.

ABOUT DISTANCE DISPLAY

When you use the combination of MZ / Z series, and *ist film SLR cameras or PENTAX digital SLR cameras with a lens which is produced after A series lens, the LCD panel of flash unit will indicate the effective flash distance ranges. If you use an earlier series lens with these cameras, the effective distance ranges will not appear on the LCD panel.

TTL AUTO FLASH

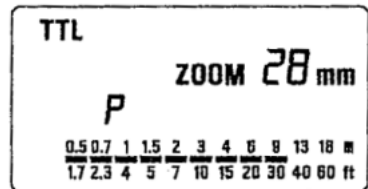
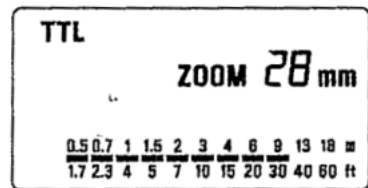
In the TTL AUTO Mode, the camera will control the amount of flash lighting to provide the appropriate exposure for the subject.

1. Set the camera's exposure mode to P (PICT) Mode.
2. Turn on the power switch of the flash, the TTL mark will appear on the LCD panel and flash will start charging. (If TTL mark does not appear, depress the **MODE** button several times to select the TTL mode).
3. Focus on your subject.

4. Check that the subject is located within the effective distance range, indicated on the LCD panel.
5. Press the shutter button, after the flash is fully charged.

When the flash is fully charged, the ready light in the viewfinder, and appears on the flash unit.

- ◆ If flashgun is used with a P-TTL compatible camera, TTL will be controlled by the P-TTL system. If the flash is set as TTL, "P" will be displayed on the liquid crystal display.
- ◆ When the camera receives the appropriate exposure, the TTL icon on the LCD panel will appear for 5 seconds. If this indication does not appear, the flash illumination is not enough for that particular situation. Please re-take the picture, at a closer distance. (In the case of digital SLR cameras, "Flash Exposure Level" cannot be confirmed from the camera's viewfinder display or from the blinking display indicator of the flash's LCD panel. Please confirm the Flash Exposure Level visually from the image that you capture.)
- ◆ The AF Auxiliary Light will turn on automatically as you focus on a subject in a dark area. The effective range of the AF Auxiliary Light is up to about 0.7meter to 9meter (2.3-29.5 feet).
- ◆ When the flash is fully charged, the flash mark will appear in the finder. If the shutter is released before the flash is fully charged, the flash will not fire, and the camera will take the picture at a slow shutter speed.



USING FLASH IN OTHER CAMERA MODES

Shutter Speed Priority Setting

When you set the desired shutter speed, the camera will select the appropriate aperture value. You cannot choose shutter a speed faster than the camera's sync speed.

Aperture Priority Setting

By selecting the Av mode, after you select the desired aperture the camera will set the appropriate shutter speed for the background exposure.

When used with M Mode

You can set the desired shutter speed and aperture value. You can set the shutter speed from top sync speed to bulb.

LIMITS OF CONTINUOUS SHOOTING

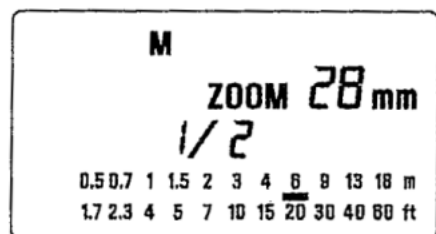
To prevent overheating of the flash's circuitry, please do not use your Flash unit for at least 10minutes after using the number of flash exposures, shown in the below table have been made in quick succession.

Mode	Number of Flash Exposures
TTL, M(1/1, 1/2)	15 Continuous Flash Shots
M(1/4, 1/8)	20 Continuous Flash Shots
M(1/16-1/32)	40 Continuous Flash Shots
Multi	10 Cycle

MANUAL FLASH OPERATION

Manual flash is provided when shooting the subjects when the correct, Exposure is difficult to obtain in the TTL mode. In the manual flash mode, you can set the flash power level from 1/1 (full) to 1/64 power in one step increments.

1. Set the camera's exposure mode to M.
2. Press the **MODE** button on the flash unit to select M.
3. The guide number value blinks when you press the **SEL** button.
4. Press **+** or **-** button to set the desired flash power output.
5. The manual flash output display will stop blinking and remain displayed after you press the **SEL** button again.



6. Adjust the focusing by pressing the shutter button, read-out subject distance from the focus ring on the lens. Then, adjust the F-stop or flash power, until the distance indicated on the LCD panel of the flash, and subject distance becomes about equal.

7. When the Ready Light of the flash is illuminated, the unit is ready for use.

◆ You can calculate the correct exposure by using the following formula:

$$\text{Guide Number "GN" / Flash to Subject Distance} = \text{F-stop}$$

This flash unit will automatically calculate and indicate the appropriate Subject Distance according to the above formula. (Please refer to **table1** on the last page)

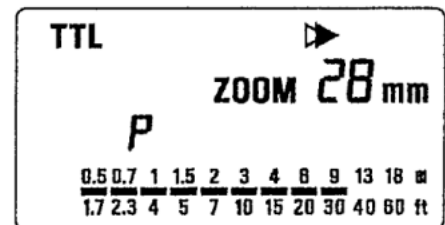
SECOND CURTAIN SYNCHRONIZATION

When you photograph a moving subject with slow synchronization, usually the furrow of the subject will be exposed in front of the subject. The ordinary flash light will fire when the first shutter curtain is fully opened, thus the subject will be exposed from the time flash is fired to the time the shutter is closed (This is called First Curtain Synchronization). When you use second curtain synchronization, the flash will fire just before the second curtain begins to closes, and the subject will be exposed by ambient light from the time the shutter opens until the flash fires. The furrow of the subject will therefore be exposed behind the subject, creating a more natural effect.

1. Set the desired picture-taking mode of the camera
2. Select the Mode of the flash. (TTL mode)
3. Press **[+]** or **[-]**, button **▶▶** mark will be displayed on the LCD panel.
4. Adjust the focus, and take the picture after confirming the ready light is lit.

◆ First curtain synchronization will be set, if **▶▶** mark is not displayed.

◆ To cancel second –curtain synchronization, turn off the **▶▶** mark on the LCD panel.



HIGH SPEED SYNC FLASH(FP) (Only for P-TTL compatible cameras)

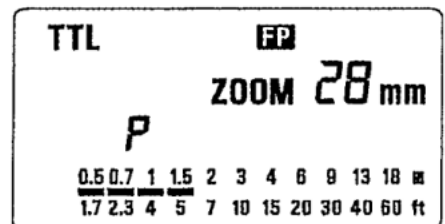
When you take a picture with an ordinary flash, you cannot use a shutter speed faster than the camera's synchronized speed because the flash must fire when the shutter curtain is fully open. The FP flash keeps firing, while the shutter curtain is running. Thus you can use a shutter speed faster than the synchronized speed.

1. Set the mode of camera. (The exposure mode changes by each camera models.) Please confirm it with the instruction manual of the camera in use.
2. Choose the Flash Mode by using **[MODE]** button (P-TTL, CONTRAST-CONTROL-SYNC FLASH, WIRELESS FLASH can be used).
3. Press the **[+]** or **[-]** button and make the indicate **FP** indicator appear on the LCD panel.
4. Focus on the subject
5. When the Ready Light of the flash is illuminated, the unit is ready for use.

◆ If the camera's synchronized speed is slower than the camera's shutter speed, it switches to ordinary flash.

◆ Depending on the shutter speed, the Guide Number will be changed.(Please refer to table2 on the last page)

◆ If you want to cancel the FP Flash mode, please follow the FP flash procedure to make the **FP** indicator display from the LCD panel.




MODELING FLASH

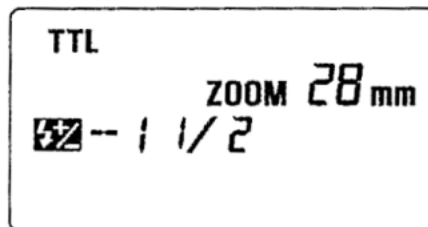
If you use the Modeling flash, you can check the lighting and shadow effects, before you take the picture.

1. Press the **[MODE]** button and select the mode.
2. Press the **[+]** button or **[-]** button several times to make the **MODEL** icon on the LCD panel appear.
3. Confirm that the flash is charged, then press the **[TEST]** button to fire.

EXPOSURE COMPENSATION (Only for P-TTL compatible cameras)

You can use flash exposure compensation in combination with normal exposure compensation (to control the background exposure level) in flash picture. Flash exposure compensation can be set 1/2 stops in -3~+1 stop increments.

1. Choose the Flash Mode by using **MODE** button (P-TTL, HIGH SPEED SYNC FLASH, CONTRAST-CONTROL-SYNC FLASH, WIRELESS FLASH can be used).
2. Press the **SEL** button to make the indicator of  mark blink.
3. Press the **+** button or **-** button to set the compensation amount.
4. Press the **SEL** button to make compensation amount indicator stop blinking.
5. Focus on the subject.
6. Please check that the subject is within the flash range displayed on the EF 530 DG SUPER PA-PTTL's LCD panel.
7. You can take the picture after confirming that the Ready Light of the flash is illuminated.




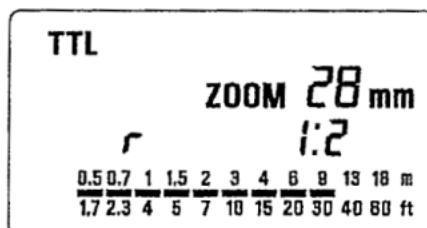
- ◆ To cancel exposure compensation, please start from step 2 and choose + 0 on display.
- ◆ In wireless photography, setting is possible for each master side and slave side.
- ◆ If two or more flashguns will be compensated at the same time, please use exposure compensation of camera.

CONTRAST-CONTROL-SYNC FLASH

When the EF-530 DG SUPER PA-PTTL flash is used in combination with the camera's built-in flash, Twin flash photography is possible.

- ◆ If hot-shoe is located on the "grip" of your camera, you can attach the EF-530 DG SUPER PA-PTTL directly to the camera. In the case of MZ series, and *ist film SLR cameras or PENTAX digital SLR cameras, the camera's built-in flash cannot be used with external flash, because, MZ series, and *ist film SLR cameras or PENTAX digital SLR camera has the hot shoe on the "penta prism" of the camera. However, "Contrast-Control-Sync Flash" can be used with following Pentax's accessories. (Hot Shoe Adapter FG, Extension Cord F5P and Off-Camera Shoe Adapter F)

1. Set the mode of camera.
2. Set the P-TTL mode on the EF-530 DG SUPER PA-PTTL.
3. Press the **+** button or **-** button of the EF-530 DG SUPER PA-PTTL until the LCD panel indicates the  / 1:2.
4. Check the focus. Make sure that the flash ready lamp on the EF-530 DG SUPER PA-PTTL is lit and the camera's built-in flash is charged before releasing the shutter.

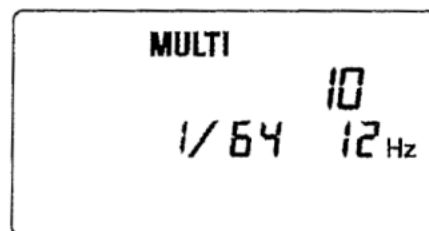


- ◆ This procedure will provide a flash output ratio of 1 : 2 (camera's built-in flash : EF-530 DG SUPER).

MULTI FLASH MODE

While the shutter is open, the flash will fire repeatedly. By doing so a series of images of the subject will be exposed in one frame. A dark background with a bright subject shows more effectively in this mode. It is possible to set the firing frequency between 1Hz and 100Hz. Up to 90 flashes can be fired continuously. The maximum number of flashes varies, depending on the flash guide number and firing frequency settings. (Please refer to table 3 on the last page)

1. Set the camera's exposure mode to M mode, and set the F number
2. Press the **MODE** button until the Multi-flash mode appears
3. Press the **SEL** button until the flash firing frequency starts to blink.
4. Press the **+** or **-** button to set the desired flash frequency value.
5. After pressing the **SEL** button again, the flash power level will blink.
6. Press the **+** or **-** button to set the desired power level.
7. Press the **SEL** button again, the number of flashes will blink.
8. Press the **+** or **-** button to set the desired number of flashes.
9. Press the **SEL** button again, the display will stop blinking.
10. When the ready light of the flash is illuminated, the unit is ready to use.




Note: Please set the shutter speed longer than; Number of Flashes you want ÷ Firing Frequency

BOUNCE FLASH

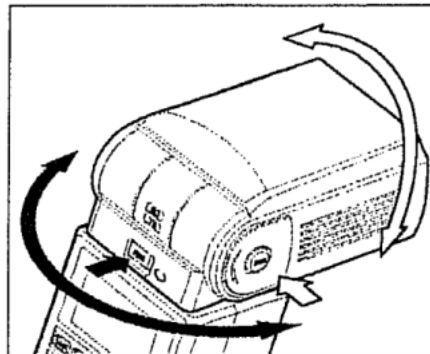
When you take a photo with flash in a room, sometimes a strong shadow will appear behind the subject, if you point the flash head upwards or sideways to reflect the light off the ceiling, wall etc. the subject will be illuminated softly. Press the lock button and adjust the flash head to set the bounce angle.

UP: 0°, 60°, 75°, 90° DOWN: 0°, 7°
RIGHT: 0°, 60°, 75°, 90° LEFT: 0°, 60°, 75°, 90°, 120°, 150°, 180°


When the bounce flash mode is activated, a bounce indicator  will appear on the LCD panel.

The picture will receive the color from the reflecting surface. Please choose a white surface for bouncing.

Depending on the reflecting surface, the subject distance and other factors, the effective distance range for the TTL AUTO may change. Please check for correct exposure confirmation (TTL mark on the LCD panel) after releasing the shutter.



Close-up Exposures

For bounce flash can be tilted 7° downward for close-ups. The Flash will be effective only for the subjects 0.5 meter to 2 meters. When the flash head is tilted 7°  will blink.

WIRELESS FLASH


(Only for P-TTL compatible cameras)

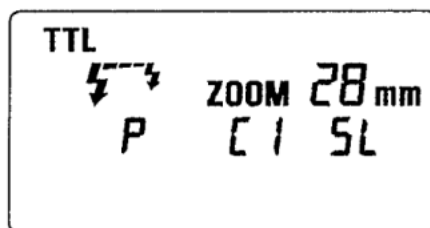
When you use the "Wireless Flash" mode, you can take pictures with a more three-dimensional effect by shadow, or you can make natural image by shadow depending on the flash position, without any extension cord connecting the camera body and the flash. In the case of the EF-530 DG SUPER PA-PTTL, communication between the camera body and the flash will be done by the means of the light of the flash. In the "Wireless Flash" mode, the camera will calculate the correct exposure automatically.

- ◆ It would be helpful to use a mini-stand when the flash unit is separated from the camera. The mini-stand has a threaded hole to attach the flash unit to a tripod.
- ◆ Make sure not to position the flash your picture area.
- ◆ Place the flash approximately between 0.5m-5m (1.5-5.6ft) range, and camera approximately 1m-5m (3-16ft) range from the subject.
- ◆ In case of other people using Wireless Flash mode near you, your flash may be influenced by the other person's flash and your flash may fire. In this circumstance, please set your flash to a different channel; from that of the other person's flash. Please refer to above settings.

USING THE SIGNAL OF BUILT-IN FLASH AS A TRIGGER.

(Except *ist Ds/Ds2/DL/DL2, K100D, K100D Super, K110D)

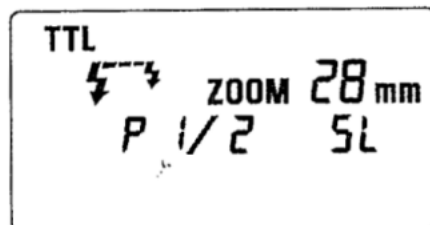
1. Press the **MODE** button to Select the **P / TTL /  / SL** mark.
2. Channel information will blink when the **SEL** button is pressed.
3. Set the channel number by pressing **+** or **-** button.
4. Press the **SEL** button several times until the display stops blinking.
5. Attach the flash to the camera, turn the power switch of your camera on and press the shutter button halfway, flashgun's channel information will be transferred to the camera.



6. Remove your flash from the camera and place it at the desired position.
 7. Pop-up the built-in flash of your camera, and confirm that it is fully charged.
- ◆ In wireless flash mode, AF Auxiliary Light will blink to indicate that the flash is fully charged.
 - 8. Adjust the focus of your camera for taking picture.
 - ◆ It is possible to use Exposure Compensation. For more details please refer to Exposure Compensation section.
 - ◆ By custom function setting of the camera, it is possible to cancel built-in flash as a main flash. Please refer to instruction manual of the camera for details.
 - ◆ It is possible to use High Speed Syncro photography. Please set flash mode of camera as High Speed Syncro (**W** HS), as explained above and refer to instruction manual of the camera for details.
 - ◆ It is also possible to use amount of discharge adjustment (1/1 ~ 1/64). P-TTL flash can be performed by maximizing the setting value.

Amount of discharge adjustment setting

1. Press the **SEL** button several times to make the flash output amount indicator blink.
2. Press the **+** button or **-** button to set the flash output amount.
3. Press the **SEL** button several times to make the display stop blinking.



USING THE SIGNAL OF THE FLASH THAT IS ATTACHED TO THE CAMERA AS THE TRIGGER

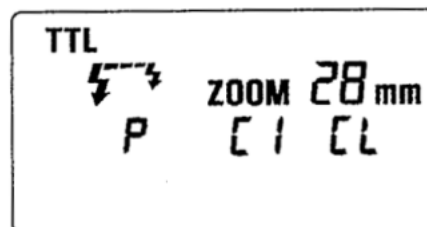
It is possible to use the signal of EF-530 DG SUPER PA-PTTL flashgun that is attached to the camera for triggering another EF-530 DG SUPER PA-PTTL apart from the camera.

- ◆ This only works with 2pcs or more EF-530 DG SUPER PA-PTTL flashguns.
- ◆ In this instruction, we call a flash unit, which is attached to the camera body the "Controller", and we call a flash unit at a remote position the "off-camera flash".

When only OFF-CAMERA FLASH is triggered

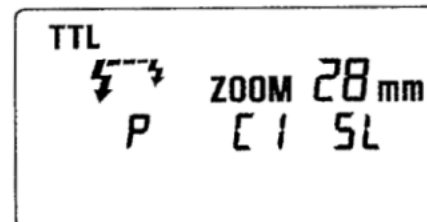
Controller Setting

1. Attach the flash unit to the camera.
2. Press the **MODE** button to select the **P/TTL/⚡/[L]** mark.
3. Press **SEL** button, to make the channel indicator blink on the display.
4. Press **+** or **-** button to set the desired channel number.
5. Press the **SEL** button several times until the display stops blinking.



Off-Camera Flash Setting

6. Press the **MODE** button to Select the **P/TTL/⚡/SL** mark.
7. Press **SEL** button, to make the channel indicator blink, on the display.
8. Press **+** or **-** button to choose the same channel number as set on the controller.
9. Press the **SEL** button several times until the indicator stops blinking.
10. Place the off-camera flash at the desired position.
11. Check that both flashes are fully charged.

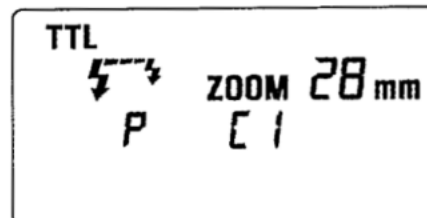


- ◆ Ready light lamp will light, and the AF Auxiliary lamp will blink to indicate that the flash is ready for shooting.
12. Adjust the focus on the subject, and take the picture.
- ◆ It is also possible to use High Speed Synchro photography. After the above-mentioned setting please set flash of controller as High Speed Synchro. Please refer to High Speed Synchro photography section for more details.

When triggering both CONTROLLER and OFF-CAMERA FLASH.

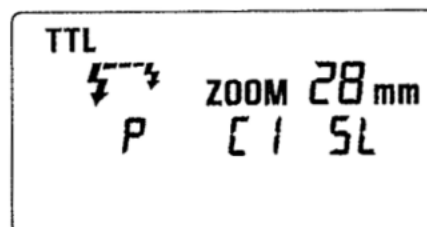
Controller Setting

1. Attach the Flash to the camera.
2. Press the **MODE** button to select the **P/TTL/⚡** mark.
3. Press **SEL** button, to make the channel indicator blink on the display.
4. Press **+** or **-** button to set the desired channel number.
5. Press **SEL** button to make the indicator stop blinking.



Off-Camera Flash Setting


6. Press the **MODE** button to Select the **P/TTL/⚡/SL** mark.
 7. Press **SEL** button, to make the channel indicator blink on the display.
 8. Press **+** or **-** button to choose the same channel number as on the controller.
 9. Press the **SEL** button several times until blinking stops.
 10. Place the off-camera flash at the desired position.
 11. Check that both flashes are fully charged.
- ◆ Ready lights will be lit and the AF Auxiliary lamp will blink, to indicate that the flash is ready for shooting.
12. Adjust the focus on the subject and take the picture.

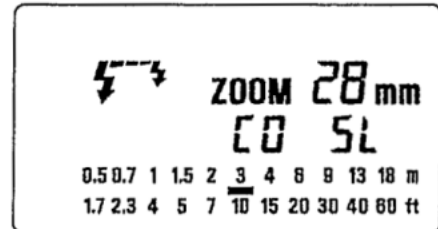


SLAVE FLASH

NORMAL SLAVE FLASH

Even if the EF-530 DG SUPER PA-PTTL is not attached to the camera body, you can fire the flash by using the camera's built-in flash or another flash unit

1. Attach the flash unit to the camera's hot shoe.
2. Set the camera's exposure mode to the desired mode. If you use **A** or **M** mode, set the desired aperture value also.
3. Turn on the flash unit. Then press the shutter button half way.
 - ◆ Now, the aperture value and film speed are automatically transmitted to the flash unit.
4. Remove the flash unit from camera.
5. Press the **MODE** button and select the  / **SL** (Slave) mode.
6. Press the **SEL** button several times to make the flash output amount indicator blink.
7. Press the **+** button or **-** button to set the flash output amount.




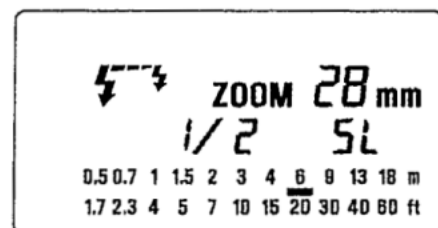
- ◆ Determine the appropriate flash power by setting the distance indicator on the LCD panel to coincide as closely as possible, with the actual distance from the slave flash to the subject. If the actual distance is out of range, you need to change the aperture value.
 - ◆ You can set the film speed or aperture value on the flash unit manually, if desired.
 - a. For the film speed... Press the **MODE** to select the **ISO**, then press the **SEL** button to make the indicator blink. Press the **+** button or **-** button and set the desired film speed, then press the **SEL** button once again.
 - b. For the aperture value ... When the flash unit is set to the Slave mode, press the **SEL** button to make the indicator for the aperture value blink, and press the **+** button or **-** button to set the desired aperture value. Then press the **SEL** button.
 - 8. Press the **SEL** button several times to make the display stop blinking.
 - 9. Place the slave unit in the desired location. Do not place the slave unit within the Picture area.
 - 10. After you confirm that all flash units are fully charged, press the shutter button to take the picture.
- ◆ When the EF-530 DG SUPER PA-PTTL is fully charged, the AF Auxiliary Light will blink.
 - ◆ The flash will not fire if the EF-530 DG SUPER PA-PTTL is attached to the camera body while it is in the Slave Mode setting.
 - ◆ Since malfunction is caused by pre-flash in P-TTL mode, built-in flash of MZ-S, MZ-L, *ist or digital SLR cameras cannot be used. In addition, if you use Pentax brand flashgun for the camera side, please use it in Manual flash mode.

DESIGNATED SLAVE FLASH

If you use two or more EF-530 DG SUPER PA-PTTL flash units, you can designate which flashes will fire together by using the channel settings. In this mode, one flash unit will be used as the Slave Controller and the others for firing as Slaves.

Setting the Slave Flash unit(s) for firing

1. Attach the firing flash unit to the camera body.
2. Set the camera's exposure mode to **Tv** or **M** mode.
 - ◆ Then set the shutter speed to 1/30 or slower. The slave Controller will transmit the designated signal before the others fire. Thus if you use a shutter speed faster than 1/30, the firing flash units will not be synchronized.
3. Switch "ON" the flash unit, and press the camera's shutter button halfway.
 - ◆ Now, aperture value and film speed are automatically transmitted to the slave flash unit.
4. Remove the slave flash unit from camera.
5. Press the **MODE** button and select the  / **SL** (Slave Mode)
6. Press the **SEL** button to make the channel display indicator blink.
7. Press the **+** button or **-** button to set the channel number. (C1 or C2)



8. Press the **SEL** button to make the output amount display indicator of flash blink.

9. Press the **+** button or **-** button to set the flash output amount.

- ◆ Set the flash power by setting the distance indicator on the LCD panel to coincide as closely as possible with the actual distance from the slave flash to the subject. If the actual distance is out of range, you need to change the aperture value.

10. Press the **SEL** button several times to make the display stop blinking.

11. Place the slave unit in the desired location. Do not place the slave unit within the picture area.

Setting for Slave Controller unit

12. Attach the Slave Controller flash unit to the camera body.

13. Press the **MODE** button and select the **SL** (Slave Mode).

14. Press the **SEL** button to make the channel display indicator blink.

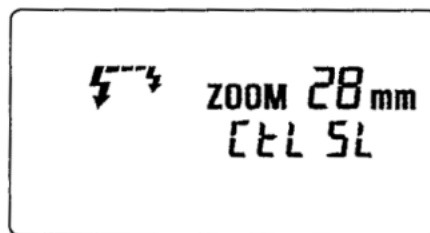
15. Press the **+** button or **-** button to set the same channel number as that set on the firing flash unit.

16. Press the **SEL** button to make the flash output amount display indicator blink.

17. Press the **+** button **CL** mark displayed.

18. Press the **SEL** button to make the display stop blinking.

19. After you confirm that all flash units are fully charged, press the shutter button to take the picture.



- ◆ When the firing flash unit of EF-530 DG SUPER PA-PTTL is fully charged, the AF Auxiliary Light will blink.

- ◆ You cannot set the aperture value by **SEL** button, if you select the **CL** mark at the setting of flash output amount. The flash unit will be set to the Slave Controller mode.

- ◆ The Slave Controller unit functions only to control the slave unit.

SPECIFICATIONS

TYPE : Clip-on type serial-controlled TTL auto zoom electric flash

GUIDE NUMBER : 53 (ISO 100/m, 105mm head position)

POWER SOURCE : Four AA type alkaline batteries or, : Four AA type Ni-Cd batteries or,
: Four AA type Ni-MH Nickel-Metal Hydride

RECYCLING TIME : about 6.0 sec. (Alkaline batteries)

: about 4.0 sec. (Ni-Cd, Ni-MH Nickel-Metal Hydride)

NUMBER OF FLASHES : about 220 flashes (Alkaline batteries)

: about 100 flashes (Ni-Cd, Ni-MH Nickel-Metal Hydride)

FLASH DURATION : about 1 / 700 sec. (full power firing)

FLASH ILLUMINATE ANGLE : 24mm - 105mm motor powered control (17mm with Built-in Wide Panel)

AUTO POWER OFF : Available

WEIGHT : 315 g/11.1oz.

DIMENSIONS : 77mm(W)/3.0in. x 139mm(H)/5.5in. x 117mm(L)/4.6in.