PENTAX Flashes

Flashes/Accessories

Art. No. AF-360 FGZ	30333
Barcode	00270750051188

Art. No. AF-540 FGZ	39125
Barcode	00270750116269

AF-360 FGZ

AF-540 FGZ

- > Automatic zoom reflector to 24mm
- > 20mm wide-angle panel
- > Vertical tilt
- > Cableless operation with compatible cameras
- > With Catchlight Panel
- > High Speed Synchronisation
- > Contrast control with up to 4 flashes
- > Modelling and Test Flash functions, with 10 strobes/Sec.
- > Second curtain synchronisation
- > Usable with older cameras

- > Automatic zoom reflector 24mm 24mm – 85mm
- > 20mm wide-angle panel
- > Vertical tilt, horizontal rotate
- > Cableless operation with compatible cameras
- > High-Speed-Synchronisation
- > Contrast control with up to 4 flashes
- > Modelling and Test Flash functions, with 10 strobes/Sec.
- > Second curtain synchronisation
- > Usable with older cameras
- > Indication of actual focal length also for digital cameras

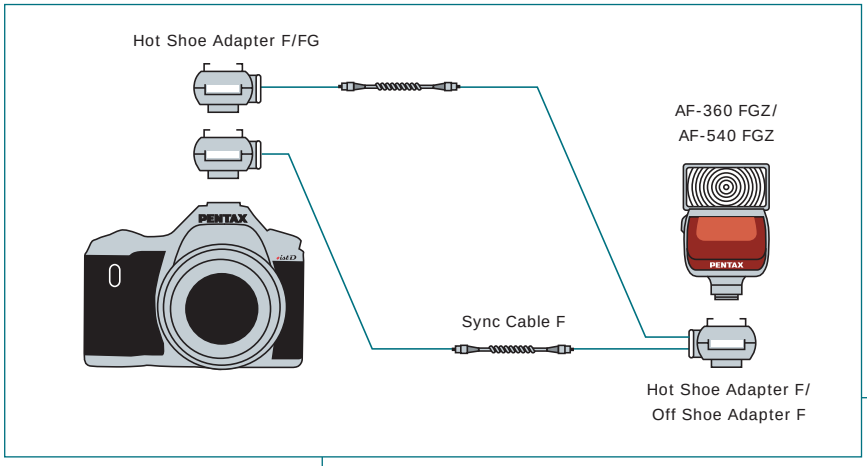
Type	**Electronic flash with zoom reflector**
GN	36 at 80mm 30 at 50mm (ISO 100)
Compensation Steps	Flash exposure compensation –3.0 to +1.0EV in 0.5EV steps
Flash Functions	P-TTL A-TTL Automatic Manual (6 steps 1/1 – 1/32) Slave Cableless Flash sync with 1st and 2nd shutter curtain Spot Beam function for distance measurement Contrast Control High-Speed-Synchronisation
Reflector	Auto zoom, manual zoom Vertical bounce click stops: -10°, 0°, 45°, 60°, 75°, 90°
Flash Range	0.7–5.4m at f/5.6/ISO 100
Batteries	4x AA (or rechargeables)
Battery Life	Alkali-Manganese (LR6): Recycling approx. 6sec., No. of flashes approx. 250 Nickel-Metal hybrid (Ni-MH): Recycling approx. 6sec., No. of flashes approx. 160
Compatibility	Digital SLRs, 35mm, 645, 67
Dimensions	70x110x115.5mm
Weight	270g (without batteries)
Standard Accessories	Carrying case

Typ	**Electronic flash with zoom reflector**
GN	54 at 80mm 45 at 50mm (ISO 100)
Compensation Steps	Flash exposure compensation –3.0 to +1.0EV in 0.5EV steps
Flash Functions	P-TTL A-TTL Automatic Manual (7 steps 1/1 – 1/64) Slave Cableless Flash sync with 1st and 2nd shutter curtain Spot Beam function for distance measurement Contrast Control High-Speed-Synchronisation
Reflector	Auto zoom, manual zoom Vertical bounce click stops: -10°, 0°, 45°, 60°, 75°, 90° Horizontal rotate click stops: Right: 0°, 30°, 60°, 90°, 120°, 150°, 180° Left: 0°, 30°, 60°, 90°, 135°
Flash Range	0.8–8.0m at f/5.6/ISO 100
Batteries	4x AA (or rechargeables)
Battery Life	Alkali-Manganese (LR6): Recycling approx. 6sec., No. of flashes approx. 200 Nickel-Metal hybrid (Ni-MH): Recycling approx. 6sec., No. of flashes approx. 160
Compatibility	Digital SLRs, 35mm, 645, 67
Dimensions	76x142x107mm
Weight	380g (without batteries)
Standard Accessories	Soft case

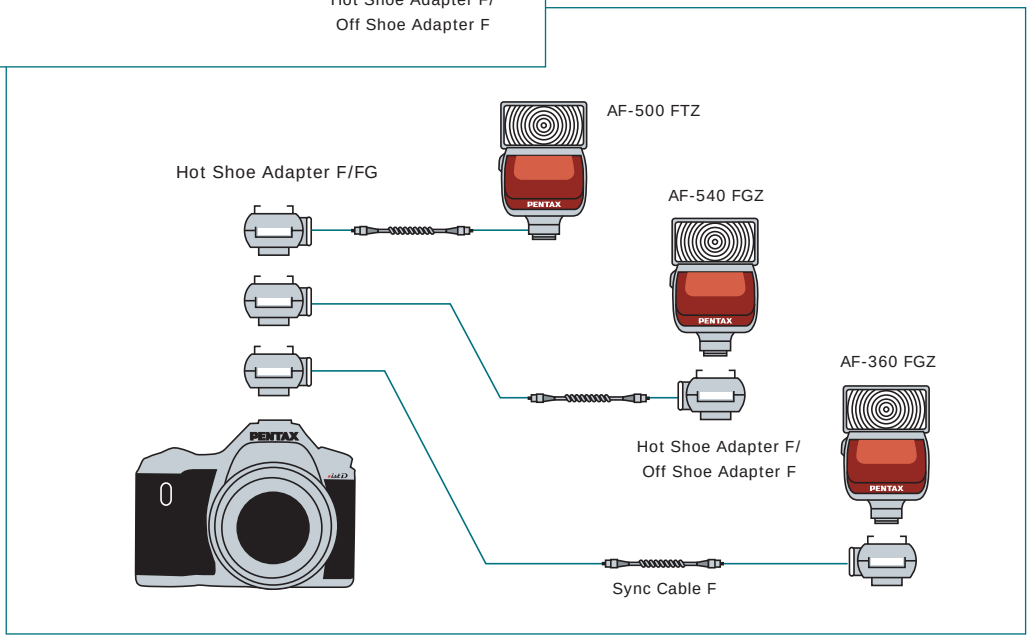
FLASH SYSTEM

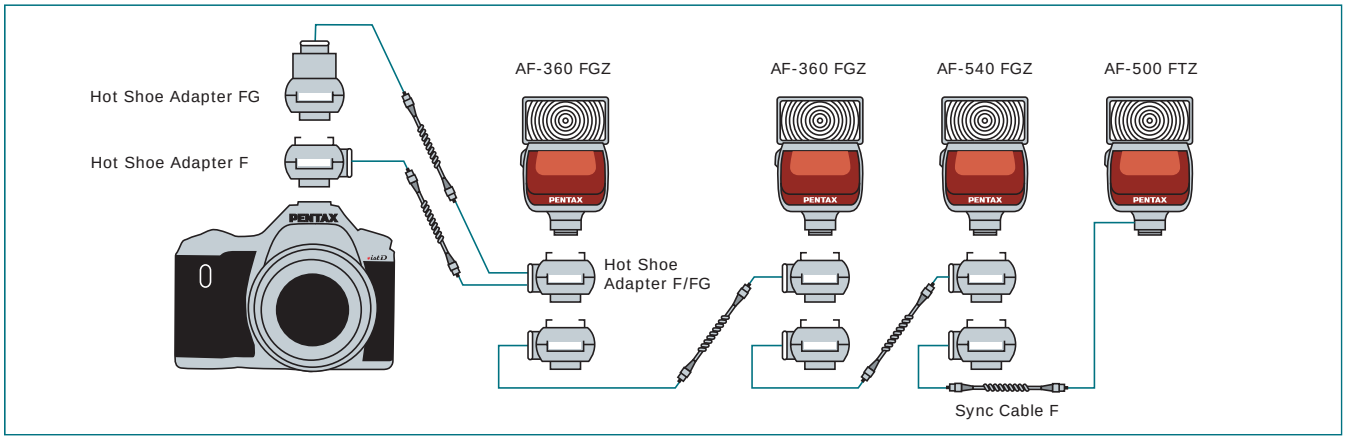
Off Camera flash can be a particularly challenging form of photography. To simplify the challenge PENTAX offers a number of different possibilities. The simplest solution is remote cableless flash, which functions perfectly with the new digital SLRs. With older camera series, Z or MZ series for example, another easy solution is available. Depending upon the application only some cables and adapters, as presented here, are required. The Hot Shoe Adapter FG allows the use of the simultaneous use of the built-in flash along with multiple external flashes; Hot Shoe F allows for the use of multiple external flashes.

Sync Cord F (50cm or 3m length) is used to connect to a Hot Shoe Adapter F or an Off Shoe Adapter. The Hot Shoe Adapter has the electrical contacts for the flash on both the top and the bottom of the adapter as well as a 5-pin connector for the sync cords to connect to additional adapters or to other flash units such as the AF-500 FTZ. Up to 4 flash units can be connected in this way using 4 shoe adapters and the appropriate cables. The Off Shoe Adapter features a standard tripod mount socket as well as a 5-pin connector.



A range of applications are possible with PENTAX flash accessories. A few examples are shown here.





FACT SHEET FLASHES / ACCESSORIES

Art. No. 31022
Barcode 0027075023543

Hot Shoe Adapter F

The Hot Shoe Adapter F is particularly suitable for the SF- and Z-series cameras and the flash units of the FTZ- and FGZ series. When used with the MZ- and *ist-series the use of the camera's built-in flash is not possible. The Hot Shoe Adapter is mounted onto the camera's hot shoe (or other hot shoe or off shoe adapters). The top of the Hot Shoe Adapter F contains an additional hot shoe with 4 flash contacts for mounting a flash and the bottom of the adapter is the hot foot with 4 flash contacts. Additionally, it has a cable connector for attaching additional flashes, such as the AF 500 FTZ or additional shoe adapters.
Up to 4 adapters can be stacked.

Art. No. 31045
Barcode 0027075039377

Hot Shoe Adapter FG

The Hot Shoe Adapter FG was specifically developed for the MZ -, and *ist series to allow for the use of the camera's built-in flash along with connections to other flash system components.
At the bottom of the Hot Shoe Adapter FG is the hot foot with the 4 flash contacts. The top of the adapter is the socket for connecting cables to the other flash system components.

Art. No. 31046
Barcode 0027075039384

Off Shoe Adapter F

The Off Shoe Adapter F is particularly suitable for use with the FTZ- and FGZ series flashes. The top of the Off Shoe Adapter F contains an additional hot shoe with 4 flash contacts for mounting a flash. The bottom of the adapter features a standard tripod screw mount.
Additionally, it has a cable connector for attaching additional flashes, such as the AF 500 FTZ or additional shoe adapters.

Sync Cable F

Art. No. 37347
Barcode 0027075023604

0.5m Spiral Sync Cable

Art. No. 37349
Barcode 0027075039407

3m Sync Cable

The Sync Cable serves as the connection between the flash adapters.

Art. No. 30336
Barcode 0027075051324

Off Camera Shoe Clip

The clamping attachment has a flash foot (without electrical contacts) and is used to attach a flash to an object up to 60mm thick, such as a table or supporting bar. A built-in ball head ensures that the flash may be positioned correctly.

FLASH FUNCTIONS

TTL Auto Flash (A-TTL)

The flash is controlled by the amount of light reflected off the film surface during flash exposure, automatically controlling the flash output to assure correct exposure. This mode of operation functions with all PENTAX autofocus cameras (excluded MZ-S and digital SLR), the 645-Serie and 67II.

PTTL Auto Flash (P-TTL)

Prior to the main flash a pre-flash is fired so that the multi-field exposure system can determine the distance to the subject, the relative brightness, back light conditions and other relevant factors. The measured data are used to determine the strength of the flash output for each exposure. This mode of operation offers more precise results than the conventional A-TTL control. This mode of operation functions with the MZ-S, as well as the PENTAX digital cameras.

Auto Flash (A)

The flash unit contains a sensor that measures the light reflected back from the subject and adjusts the flash output automatically. This mode of operation is used with cameras that do not have a TTL control.

Manual Flash (M)

The Guide Number of the flash must be used to determine, and manually set, the correct aperture of the lens. Distance = GN: aperture. This mode of operation is available with all cameras.

AF Spot Beam (SB)

When using an autofocus camera in weak or low-contrast lighting conditions a red AF light beam is flashed to make optimal focusing possible. The flash is not fired in this function.

High-Speed Synchronisation

With the appropriate camera a faster shutter speed can be used. This function is very effective for fill-flash in daylight. The GN is reduced for high-speed sync.

Modelling Flash

The flash fires a rapid series of lower output flashes (strobes) to allow the photographer to see the shadows surrounding the subject.

Zoom - Swivel Reflector / Catchlight Panel

The best light does not always come from the front. Sometimes the situation calls for the light to be reflected from a nearby surface such as a white wall or ceiling. A bounce head flash is invaluable for this purpose, especially one that can both tilt horizontally and rotate vertically. Because the reflective surface used may not be perfect a quantity of light is lost. In order to balance the Catchlight Panel, which sits directly over the reflector, can be used to guide a smaller amount of light directly at the subject.

The motor-zoom reflector in the flash head always provides the angle of coverage. The flash recognizes the focal length of the lens being used and automatically adjusts the position of the reflector, whether you're using a wide angle or telephoto lens. The information displayed on the control panel indicates focal length of the lens. The AF-360 FGZ indicates for both 35mm and medium format focal and the AF-540 FGZ additionally indicates the focal length for the digital SLR format.

Second Shutter Curtain Synchronisation

There are times when a "streaking effect" of the subject is desired. An example would be to use a slow shutter speed to show the motion and speed of a car. To be effective this streaking should be behind the car. With a standard flash, however, the streaking would appear in front. Why? Normally, the flash is triggered by the opening of the first shutter curtain. The flash will sharply illuminate the car and then car will continue to move forward while the shutter remains open, causing the image to streak. Using second curtain sync, the first shutter will open, the car will move past leaving a streaked image and then the flash will fire as the second shutter curtain begins to close causing the "streak" to be behind the car where it is expected to be.

Guide Number

The higher the Guide Number the greater the luminosity and/or range of lightning.

Wireless Flash Control

Wireless flash control is ideal for using multiple flashes set ups, especially for illuminating large areas or for effect light. This is accomplished when the camera's built-in flash is picked up by a photocell in the remote flashes, causing the remote flashes to fire in unison. This process is greatly simplified through P-TTL control. With this system, not only does the built-in flash trigger the remote flash(es), but transfers relevant exposure data as well. The maximum distance for this type of set up would be 4 meters. The control flash may be the built-in flash or a FGZ series mounted on the camera.