The handle-grip is designed for use with 700AF dedicated autofocus flashgun. Dedication to the AF camera is maintained through the dedicated adaptor and cable, enabling dedicated off-camera flash to be used as easily as on camera. Using your flash on this handle-grip will increase the versatility of flash photography. Mounted on the grip, the flash is further from the camera which will give improved modelling effects for portraits and reduce the risk of red-eye.

Attaching grip to bracket
Locate the grooves on the base of the grip (A) with the tongues on the left side of the bracket (B). The ribbed face of the grip should be facing forwards. Make sure the bush on the base of the grip lines up with the screw (C) on the bracket. Tighten the screw by turning it to the right.

Fixing camera to bracket
Locate the camera tripod bush with the screw (D) running along the slot in the bracket. Turn the screw to the right to tighten. The screw can be moved along the slot to position the camera as desired. Ensure that the camera back is parallel to the bracket and not twisted.

Attaching module to camera
Remove the module (E) from the flash. Slide the foot of the module into the camera's hot-shoe, making sure it is pushed fully home. Turn the locking ring (G) to the left to tighten.

1. 2.
3. 4.

Notes on use
Flash photography with the handle-grip is carried out in the same way as when using the flash on camera. For off-camera use, detach the grip from the bracket by turning the screw (C) to the left. Hold grip in left hand and aim the flash as desired.

Attaching flash to grip
Slide the flash onto the grip (A). Hotshoe module lock (H) should be moved in the direction of the arrow to prevent the flash unit sliding off the module or grip.

Battery compartment
The handle-grip has a compartment in which to insert 4 x 1.5V AA size batteries for the red light adaptor (F) which when pressing the shutter halfway down, can release red light beam up to 6 metres for focusing purpose. To remove the compartment, gently squeeze the back portion of the grip using finger and thumb and pull outwards. Tilt the battery compartment forward to enable batteries to be installed or removed. Push the compartment back into the grip until it clips into place.
HOW TO USE COBRA 700AF

1. LOAD THE BATTERIES
   Slide the battery cover (4) towards the front of the flash and insert the batteries according to the diagram inside the compartment. Close the cover by sliding it firmly back into place. Ensure that the batteries are fitted properly, and remove them when storing the gun for a long period of time. The majority of flash faults are caused by leaking or incorrectly fitted batteries. This flashgun takes four 1.5V AA size Alkaline batteries or Ni-Cad equivalent. We strongly advise against the use of zinc-carbon batteries due to their short life and tendency to leak.

2. MOUNT THE FLASH ON THE CAMERA'S HOT-SHOE
   First switch off the gun. Then ensure that the flash shoe module (13) is locked in place, as marked on the flashgun. Next rotate the locking wheel (10) upwards and slide the flash shoe into the camera's hot-shoe until it's fully home. There should be no need to force it into place. Rotate the locking wheel (10) downwards to hold the flash on the camera. Note: With Dynax version slide catch towards "LOCK".

3. SWITCH THE FLASH ON
   Make sure that the camera is switched on. Then simply slide the ON/OFF switch (8) to the right. If the batteries are fresh the gun will charge up in less than 12 sec. and the ready light (7) will glow. If the gun is new, or hasn't been used for a while, fire the flash with the test button (6) a couple of times to get the flash working at full capacity. Note: The flash exposure is controlled via the camera's Though-the-lens (TTL) and "On-the- film" (OTF) systems. Therefore if the flash is tested on camera without a film or test card loaded incorrect flash operation will result.

4. HOW TO POSITION THE BOUNCE AND SWIVEL HEAD
   The 700 AF offers the advantages of a zoom head with tilt and swivel facilities. Zoom head. By pre-setting the zoom head to match the lens in use you can obtain even light coverage with wideangle lenses and still maximise the flashgun's power output with longer lenses. Simply set the number on the head (1) that most closely matches the focal length of the lens. So if it's an 85mm lens, set 85; standard lens, set 50; 35mm lens, set 35; and 28mm lens, set 28. Don't forget to alter the zoom head when using a zoom lens. Note: For 24mm lenses set the zoom head to 28 and fit the wideangle diffuser. This will cause slight underexposure by about 1 stop, which is not noticeable with colour print film. Tilt and swivel. The 700 AF's head can be tilted upwards and swivelled sideways to bounce the light off white or neutral coloured surfaces. This gives a much more flattering
INSTRUCTION BOOK FOR FLASH PHOTOGRAPHY WITH AF CAMERAS

result, preventing washed-out highlights reducing harsh shadows and eliminating red-eye. The head can be tilted from 0deg (straight ahead), through 45, 60 and 75deg to 90deg (straight upwards). It will also swivel right through to 180deg, useful for bouncing the light off a wall.

5. SELECT AN EXPOSURE MODE
For simple point-and-shoot photography, leave your camera in Program mode. However, the Cobra 700 AF’s advanced dedication allows you to choose any other exposure mode available e.g. aperture priority, shutter priority and manual. Further details for using this flashgun with specific cameras is provided overleaf.

6. FILM SPEED SELECTOR/DISTANCE SCALE (5)
This scale can be used as a guide to maximum shooting distances, especially useful when using the camera in its TTL manual mode. The scale is not electronically connected to the flash unit and its use will not affect the flash output, which is completely controlled by the camera.

7. AF ILLUMINATOR
The 700 AF has a built-in autofocus illuminator (12) to enable the camera to judge the distance, and adjust the focus of the lens in low ambient light or total darkness. The illuminator fires a red light when the shutter release button of the camera is pressed. The camera can then adjust the focus of the lens and when correct will fire the shutter and the flash. The illuminator has an effective distance of 7 metres. Beyond this distance manual focus should be used.

WHAT'S WHAT ON THE COBRA 700 AF

<table>
<thead>
<tr>
<th>Number</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Zoom head focal length scale</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Bounce angle scale</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Swivel action</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Battery compartment cover</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Film speed selector/distance scale</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Test flash button</td>
<td></td>
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<tr>
<td>7</td>
<td>Flash ready light</td>
<td></td>
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<tr>
<td>8</td>
<td>ON/OFF switch</td>
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<tr>
<td>9</td>
<td>Auto check indicator</td>
<td></td>
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<tr>
<td>10</td>
<td>Hotshoe locking wheel</td>
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<tr>
<td>11</td>
<td>Flash head</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Autofocus illuminator</td>
<td></td>
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<tr>
<td>13</td>
<td>Dedicated flash module</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>Module locking Switch</td>
<td></td>
</tr>
</tbody>
</table>

Notes: FOR EFFECTIVE FLASH PHOTOGRAPHY DO NOT OBSTRUCT PARTS 11 AND 12 WITH YOUR FINGERS. To reduce battery consumption your Cobra 700 AF will switch over to standby mode after five minutes. Simply press the camera’s shutter button or the test flash button (6) to restore power. For longer periods of time switch the flashgun off using the ON/OFF switch (7).

Warning: There are no user-serviceable parts in this flashgun. Extremely high voltages are generated inside the unit, so never attempt to dismantle or tamper with it. Any attempts to open the flashgun will invalidate the guarantee.

Guarantee

JOHNSONS PHOTOPIA guarantees to repair this product free of charge for a period of one year from date of purchase in the event of the product becoming faulty due to defects in materials or workmanship. However, the company regrets it cannot accept liability for faults arising from misuse or accident, and the guarantee does not cover damage or malfunction caused by negligence, misuse, accident or unauthorised repair. In the event of any fault, please return the product direct to JOHNSONS PHOTOPIA, adequately packed, together with clear details of the fault plus proof of purchase (including date).

THIS GUARANTEE IN NO WAY AFFECTS YOUR STATUTORY RIGHTS AS A CONSUMER.

UK
JOHNSONS PHOTOPIA LIMITED,
Hempstalls Lane, Newcastle, Staffordshire,
England ST5 OSW.
Tel: 0782 717 100 Fax: 0782 717 707

DENMARK
GOECKER HANDEL A.S.,
Solbjergvej 3, 2000 Frederiksborg, Denmark.
Tel: 45-1-1006666

700 AF PRO - GRIP

The 700 AF PRO - GRIP is an optional accessory to your flashgun. It comprises of a sturdy grip and bracket which enables the 700 AF to be used off-camera, giving much improved illumination to portraits and other subjects. All the programmed dedication between camera and gun is retained. The AF illuminator remains on the camera for accuracy and is connected to the flash with an extension lead.
HOW TO USE COBRA 700 AF IN DIFFERENT EXPOSURE MODES

NIKON AF CAMERAS
Nikon F401, F401S, F401X, F501, F601, F801, F801S, F4

The 700AF can be used in four modes with the above cameras. "Point-and-shoot" programmed mode, known as Program TTL (P) mode, Aperture priority TTL (A) mode, Shutter priority (S) mode and Manual TTL (M) mode where the user has control over both shutter speeds and apertures.

PROGRAM TTL (P) MODE (Point and Shoot): Set your camera to standard program (refer to camera's instruction book) and switch flash on. Once charged the flash ready signal (7) lights and a flash ready symbol will appear in the camera's viewfinder. The flash sync speed will be set automatically. The exact speed will depend on the camera model.

APERTURE PRIORITY TTL (A) MODE:
This mode is useful when depth-of-field is an important factor. Set the camera to its A position (refer to camera's instruction book) and select desired aperture.

SHUTTER PRIORITY TTL (S) MODE (Not F501):
This mode allows you to increase the background exposure for better background detail and also creates a more natural lighting balance between the subject and the background. Set camera to its S mode (refer to camera's instruction book) and select any shutter speed between the maximum sync and the B setting.

MANUAL TTL (M) MODE:
Set camera to manual M mode (refer to camera's instruction book). Any combination of shutter speed (up to the maximum sync) and aperture may be selected. The film speed selector/distance scale (5) on the rear of the gun can be used as a guide to maximum flash distances with most apertures.

METERING MÖDES-F601, F801, F801S, F4
Flash will operate in Matrix Fill Flash, Centre Weighted Fill Flash, Centre Weighted TTL Flash, Matrix Type fill and Spot TTL flash (F601 & F801S only). No "Background and Foreground balance compensation" facility available on F4, F801 and F801S. The following relates to the F601 only:

AUTOMATIC BALANCED FILL FLASH
While pressing shutter button press mode/balanced fill flash, balanced fill flash symbol will appear on the LCD panel.

SLOW SYNC
Slow sync allows you to increase the background exposure for better background detail and also creates a more natural lighting balance between the subject and the background.

OPERATES only in P, Pm, and A modes (also in Shutter priority S mode, see earlier section for details). Press shift button and slow button together.

REAR CURTAIN SYNC
Press shift button and rear curtain sync button at the same time.

All models do: F801, F801S, F4

EXPOSURE CHECK
If the flash exposure is sufficient the auto check indicator (9) will light up. If it fails to light and the camera viewfinder flash signal blinks as a warning, check that you are within flash range. In aperture priority and manual modes a larger aperture may be selected allowing more light to strike the film.

CANON AF CAMERAS
EOS 650, 620, 600, 1, 10, 100, 1000, 1000F, 1000F, 850, 750, 700, RT

The 700AF may be used with the above cameras in "Point and Shoot" program TTL (P) mode, Aperture priority TTL (AV) mode, Shutter priority TTL (TV) mode, and Manual TTL (M) mode. Note: the EOS 850, 750 and 700 models provide TTL Programmed flash only.

NOTE: The EOS 10 camera will not operate the low light illuminator (12) on the flash. This model uses its own built in illuminator.

Program TTL (P) Mode (Point and Shoot)
Select the "Green Square" mode on your camera (refer to camera's instruction book). This puts the camera into "Point-and-Shoot" mode, and can be used for general flash photography indoors and day light fill flash outdoors. Switch on flash; once charged the ready light (7) will glow and a flash ready symbol will appear in the camera's viewfinder. A shutter sync speed will be set by the camera, the exact speed will depend on the amount of ambient light present, usually the maximum sync for your particular camera will only be set in bright outdoor conditions. The camera will also automatically select an appropriate aperture. In this mode daylight fill flash is controlled by the camera.

SHUTTER PRIORITY TTL (AV) Mode
It should be noted that the EOS system is so designed that in AV mode a sync speed will not be set. The shutter speed selected by the camera solely depends on the aperture selected and the amount of ambient light present.

AV mode is useful when depth-of-field is an important factor. Switch camera on and select AV mode (refer to camera's instruction book). Select desired aperture via the camera's input dial and switch the flash on. The camera will select a shutter speed between 30 seconds and the maximum sync speed.

NOTE: If a small aperture is selected in low light conditions, the camera will set a slow shutter speed. In this case either set a larger aperture or ensure that your camera is mounted on a sturdy tripod to avoid camera shake. If the maximum sync speed in the viewfinder blinks set a smaller aperture to avoid over-exposure.

SHUTTER PRIORITY TTL (TV) Mode
Like AV, TV mode reads ambient light and adjusts the aperture accordingly. In low light conditions the camera will select a wide aperture - or the aperture value may blink indicating that there is not enough light for a correctly exposed picture. The only method of correction is to select a slower shutter speed.

This mode allows you to increase the background exposure for better background detail and also creates a more natural lighting balance between the subject and the background. Switch camera on and select TV mode (refer to camera's instruction book). Select desired shutter speed from the maximum sync to 30 seconds via the camera's input dial and switch flash on. If the minimum aperture can be seen blinking in the viewfinder select a faster shutter speed. If the maximum aperture blinks select a slower one.

MANUAL TTL (M) Mode
Switch camera on and select M mode (refer to camera's instruction book). Select desired shutter speed from the maximum sync to 30 seconds & B, and desired aperture. The film speed selector/distance scale (5) on the rear of the gun can be used as a guide to maximum flash distances with most apertures.

NOTES: The 700AF can also be used, when desired, with the PIC and bar-code facilities offered by some EOS models. These modes will set the camera up for a particular shooting condition and selects shutter speed, aperture and film advance automatically. When flash is desired with these simply select the command or bar-code desired, switch the flash on and proceed, referring to your camera's instruction book and the points mentioned in the above instructions.

Flash photography is not possible with the DEP mode offered by some EOS models.

EXPOSURE CHECK
If the flash exposure is sufficient, the auto check lamp (9) will light up briefly. If it fails to, check that you are within the maximum distance by using the scale (5) on the rear of the flash. In AV and manual modes a larger aperture can be selected allowing more light to strike the film.

MINOLTA DYNAX AF CAMERAS
Dynax 3000i, 5000i, 7000i, 8000i, 3xi, SPxi, 7xi

The 700AF can be used with above cameras in "Point-and-Shoot" mode, known as Program TTL (P) mode, Aperture priority TTL (A) mode, Shutter priority TTL (S) mode, and Manual TTL (M) mode, where the user has control over both shutter speed and aperture.

NOTE: The 3000i has Program TTL (P) mode flash only, and the 5000i program TTL (P) mode and Manual TTL (M) mode flash only.
INSTRUCTION BOOK FOR FLASH PHOTOGRAPHY WITH AF CAMERAS

PROGRAM TTL (P) MODE (Point and Shoot)
Switch camera on and select program (P) mode (refer to camera's instruction book). This puts the camera into a "Point-and-Shoot" mode and can be used for general flash photography. Switch flash on, once charged a flash symbol will appear in the viewfinder and the flash ready light (7) will glow. A shutter sync speed and aperture will be automatically set by the camera. The exact sync speed set will depend on the amount of available ambient light and the length of lens in use. Usually the maximum sync for your particular camera will only be set in bright conditions.

APERTURE PRIORITY TTL (A) MODE
This mode is useful when depth-of-field is an important factor. Switch camera on and select A mode (refer to camera's instruction book). Select desired aperture via the camera's rocker or dial, and switch flash on. The camera will select a sync speed depending on the Dynax model. The scale (5) on the rear of the gun can be used to give a guide to maximum shooting distances with most apertures.

SHUTTER PRIORITY TTL (S) MODE
Operates as per program TTL (P) mode. Shutter speed and aperture are selected by the camera.

MANUAL TTL (M) MODE
Switch camera on and select manual (M) mode (refer to camera's instruction book). Any combination of shutter speed (up to the maximum sync) and aperture may be selected. Refer to the scale (5) on the rear of the gun to obtain maximum shooting distances.

SLOW-SHUTTER SYNC
5000i, 7000i, 8000i, SPxi, 7xi
Slow shutter sync is available on the above cameras. It allows you to increase the background exposure for better background detail and also creates a more natural lighting balance between the subject and the background. Slow-shutter sync can be used in program (P) mode with all the above cameras. For other modes consult your camera's instruction book. Select Program or desired mode available on your camera and switch flash on. The above cameras will have either a SPOT button or an AEL button located to the right of the viewfinder. When the flash has charged a sync speed and aperture will be set by the camera. The pressing of the SPOT/AEL button will cause the camera to set a slower speed (up to the maximum sync of particular model). Use a sturdy tripod with slower speeds to avoid the danger of camera shake.

NOTE: The 700AF can be used in conjunction with certain Creative Expansion Cards (available for some Dynax models). Simply mount the flash and switch it on. The camera will select a shutter speed and aperture according to the particular card being used. If in doubt refer to your Minolta Dealer.

EXPOSURE CHECK
If the flash exposure is sufficient, the auto check indicator (9) will light up briefly. If it fails to, check that you are within the maximum distance by referring to the scale (5) on the rear of the gun. In aperture priority or manual modes a larger aperture may be selected allowing more light to strike the film.

PENTAX SF SERIES:
SF7, SF-X & SF-Xn

PENTAX Z SERIES: Z-10
The 700AF can be used in three modes with the above cameras. Point-and-Shoot programmed mode, known as Program TTL (P mode), Aperture priority TTL (A, AV or AUTO) for control over depth of field, and Manual TTL (M mode or MAN), where the user has control over both the shutter speed and aperture.

PROGRAM TTL (P MODE)
Set the camera to standard programmed mode (refer to camera's instruction book) and switch flash on. Once charged the ready signal (7) will light and a flash ready symbol will appear in the viewfinder. The flash sync speed is automatically set, so is the aperture. The exact sync speed will depend on the camera model and the amount of ambient light present: Simply focus and shoot.

APERTURE PRIORITY TTL (A, AV OR AUTO MODE-TTL AUTOFLASH)
This mode is useful when depth-of-field is an important factor. Set the camera to its A, AV or AUTO mode (refer to camera's instruction book) and choose an aperture on the lens. When the flash has charged a flash ready symbol will appear in the viewfinder along with a sync speed. The sync speed set will depend on the camera model and the amount of ambient light present. The distance scale (5) on the rear of the gun can be used as a guide to maximum flash distances with most apertures.

MANUAL TTL (M MODE)
This mode gives the user complete control over both speed and depth-of-field. Set the camera to its M or MANUAL mode and select any shutter speed from the maximum sync (refer to camera's instruction book) to the slowest speed or BULB. Select any aperture.

IMPORTANT NOTICE:
Due to circuit board differences between the SF and Z series 700AF Pentax guns, the two are not interchangeable. i.e. an SF series 700AF cannot be used on a Z series camera, and vice versa.

EXPOSURE CHECK
If the flash exposure is sufficient the auto check indicator (9) will light up. If it fails to light, check that you are within flash range. In aperture priority and manual modes a larger aperture may be selected allowing more light to strike the film.

THE FILTER PACK
Three colored filters, a red green and blue, plus a wide-angle diffuser are included with your Cobra 700 AF. These simply click onto the front of the zoom head.

Note that the coloured filters will reduce the flashgun's light output by about two stops, and the wideangle diffuser by about one stop.

HOW COMPATIBLE IS THE 700 AF?
Cobra flashguns are designed to provide maximum compatibility with each make and type of camera. Currently there is a model of the Cobra 700 AF designed to work with each of the following: Canon EOS, Pentax AF, Nikon AF and Minolta DYNAX AF cameras. We advise you to use the flashgun only with the cameras mentioned on this page: other models may not be able to make use of the 700 AF's advanced features. If you own any other make or model of camera contact Cobra for advice before using the gun to prevent damage.

Remember, the flashgun you have just bought is for use on one brand of camera only. If you ever decide to change cameras, contact your nearest Cobra dealer. There will almost certainly be a flashgun suitable for you.

SPECIFICATIONS

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<thead>
<tr>
<th>Specification</th>
<th>700AF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dedication</td>
<td>TTL operation for AF SLRs</td>
</tr>
<tr>
<td>Guide Number (ISO 100 in meters)</td>
<td>25 (28 mm zoom head position)</td>
</tr>
<tr>
<td>Angles of coverage (V X H)</td>
<td>28 mm 53 x 70 deg, 35 mm 45 x 60 deg, 50 mm 34 x 46 deg, 65 mm 23 x 31 deg</td>
</tr>
<tr>
<td>Film speed settings</td>
<td>Marked for ISO 50 - 1000</td>
</tr>
<tr>
<td>Flash duration</td>
<td>1/1000 to 1/30,000 sec.</td>
</tr>
<tr>
<td>Recycling time</td>
<td>0.5 to 12 sec.</td>
</tr>
<tr>
<td>Number of flashes</td>
<td>Over 80 per new set of alkaline batteries</td>
</tr>
<tr>
<td>Power source</td>
<td>4 x AA size alkaline batteries+Ni-CADS</td>
</tr>
<tr>
<td>Accessories</td>
<td>Wide-angle diffuser and three colour filters</td>
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</table>