FLASH COVERAGE ANGLE
Coverage angles are available for focal lengths ranging from 24 mm to 105 mm.

- AUTO ZOOM OPERATION (A ZOOM)
  If this facility is not supported by your camera, use the manual zoom operation.
  The flash unit automatically adjusts the zoom head position to provide an angle of coverage that matches the focal length of the lens in use. The setting is displayed in the LED panel. The angle of coverage automatically changes when the lens zoom position is changed.

  - Press the Zoom button until the Auto Zoom Indicator LED is on.
  - The guide number changes when the flash coverage angle is changed.
  - If the focal length of the lens in use is less than 24 mm, only "A Zoom 24 mm" will be indicated.
  - If the focal length of the lens in use is larger than 105 mm, only "A Zoom 105 mm" will be indicated.

- MANUAL ZOOM OPERATION
  Press the Zoom button once to change from auto zoom to manual zoom mode. Each press of the Zoom button changes the coverage angle in the above cycle. Press zoom button until your desired zoom head position appears in the LED panel.

WIDE-ANGLE DIFFUSER
A wide-angle Diffuser accessory that can be positioned in front of the zoom flash head is included in the flash unit package. When this Diffuser and zoom position set at 24mm, the flash can cover 17mm wide-angle lens on a 35mm format SLR camera or 11mm wide-angle lens on a digital format SLR camera.

Flash Coverage        Guide Number (at ISO 100)
(24mm + Diffuser) 75° Vertical 92° Horizontal
75° Vertical 44 feet
Note: The digital camera lenses require shorter focal lengths to obtain the same angle of coverage as their 35mm counterparts. Please check the field of view (FOV) crop factor (i.e. focal length multiplier of your digital camera for 35mm equivalent FOV. e.g. 1.6 x for Canon XT1, 1.5 x for Nikon D700.)
PARTS IDENTIFICATION

- Bounce Angle Indicator
- Zoom Position Indicator
- Auto Zoom Indicator
- Zoom Button
- On-Off Switch
- Flash Ready Indicator
- Auto Functioning Indicator
- Test-Reset Flash Button
- AF Illuminator
- Bounce Flash Head
- Battery Compartment Cover
- Flash Reflector
- Front Flash-Ready Warning Lamp
- LCD Panel
- Hot Shoe

FLASH DEDICATION

The Fromaster 7400EDF Digital Flash unit is dedicated to work with compatible cameras only.

- 7400EDF-CN fits CANON digital cameras with E-TTL / E-TTL II autoflash metering system. (e.g. Compatible with Rebel XT, XTi, SD, 30D)
- 7400EDF-NK fits NIKON digital cameras with i-TTL autoflash metering system. (e.g. Compatible with D200, D60, D10, D70s, D50, D40, D40X)
- 7400EDF-PX fits PENTAX digital cameras with P-TTL / TTL autoflash metering system. (e.g. Compatible with K100D, K10D)
- 7400EDF-SN fits SONY digital cameras with ADI / P-TTL autoflash metering system. (e.g. Compatible with α700)

- Use with incompatible cameras may cause damage to the camera, the flash unit or both.
- When mounting the flash unit to the camera, always ensure that the flash unit is switched off.
- As different models of cameras operate differently for flash photography, you should refer to the Instruction Manual of your camera for details of flash operation.
INSERTING BATTERIES
- Open the battery compartment cover.
- Insert four 1.5V AA batteries following the (+) signs as indicated and replace the cover.

IMPORTANT:
- ENSURE THAT THE BATTERIES ARE INSERTED IN CORRECT POSITION.
- FOR BEST RESULTS, USE FRESH ALKALINE BATTERIES OR PROMASTER RECHARGEABLE NiMH BATTERIES.
- DO NOT MIX FRESH AND WEAK BATTERIES.
- TO PREVENT BATTERY LEAKAGE, REMOVE BATTERIES IF NOT IN USE FOR LONG PERIODS OF TIME.

AF ILLUMINATOR FOR Autofocusing
When subject contrast is low or in low light, the AF Illuminator is automatically activated when the camera's shutter release button is pressed halfway. This illumination enables the camera's autofocus system to focus correctly. This AF Illuminator enables autofocusive shooting up to about 16 feet away. This working range of the AF Illuminator is based on standard lighting conditions with ±50% reflectance.

- The AF Illuminator may not be effective if the subject has very low reflectance.
- On certain camera models, this AF assist light is overridden by the AF assist light on the camera.

AUTO CHECK LAMP
If exposure was sufficient, the auto check lamp "OK" on the flash unit will briefly glow after the camera's shutter is released in viewfinder. No "OK" means that the exposure was incorrect.

AUTO POWER-OFF
This flash unit incorporates a battery-saving automatic power-off circuitry. The flash unit automatically turns itself off approximately 5 minutes after the last moment of operation and the ready indicator LED lamp extinguishes itself. The flash can be re-activated for firing by touching the shutter release button on the camera or by pressing the Reset Flash Button once on the flash unit or by switching the flash unit OFF and then ON again.

- When used on certain digital cameras, the auto power-off function is controlled by the camera. The flash unit can be automatically turned off only if the digital camera in use is switched off.

BOUNCE FLASH PHOTOGRAPHY
Bounces are obtained by reflecting the flash light off of a reflective surface to obtain a soft illumination. When determining the position of your subject, aim at the bounce angle. (The flash head is adjustable from 70°, 45°, 65°, 20°, and 90° desired.)

TTL AUTO FLASH RANGE - (Approx. in ft)

<table>
<thead>
<tr>
<th>ISO FILM SPEED</th>
<th>FLASH COVERAGE SETTING</th>
</tr>
</thead>
<tbody>
<tr>
<td>25</td>
<td>50</td>
</tr>
<tr>
<td>100</td>
<td>200</td>
</tr>
<tr>
<td>400</td>
<td>800</td>
</tr>
<tr>
<td>1600</td>
<td></td>
</tr>
<tr>
<td>8mm</td>
<td>35mm</td>
</tr>
<tr>
<td>24mm</td>
<td>50mm</td>
</tr>
<tr>
<td>60mm</td>
<td>105mm</td>
</tr>
</tbody>
</table>

P.3
TTL AUTO FLASH OPERATION

The Promaster 7400EDEP digital flash unit is provided with an auto-set flash metering system. The camera's auto-exposure function will automatically operate with this "external flash" to make the results of your flash photography even clearer and more natural, increasing the illumination area and allowing sophisticated flash techniques such as bounce-flash photography. Available light is metered through the camera's lens (TTL) and illumination is set automatically.

* All flash exposure settings are in the camera's control menu.

CANON (CN) unit:
• E-TTL Auto - The flash is controlled entirely by the camera, based on the information sent from it. The flash fires a pre-flash before the main flash fires so that the camera can obtain the necessary evaluative information on the subject. The data obtained is incorporated to set the more accurate output of the main flash automatically.

NIKON (NI) unit:
• i-TTL Auto - The flash is controlled entirely by the camera, based on the information sent from it. The flash fires a series of immeasurable Monitor Pre-flashes just before the flash fires so that the camera can obtain necessary information on the subject. The subject is then correctly exposed by the light from the flash and the exposure is hence less affected by the ambient light in the conventional TTL mode. This is the feature of the new NIKON Creative Lighting System (CLS).

PENTAX (PX) unit:
• P-TTL Auto - The flash is controlled entirely by the camera, based on the information sent from it. The flash fires a pre-flash before the main flash fires so that the camera can obtain the necessary information on the subject to set the output of the main flash automatically.

SONY (SN) unit:
• ADI/P-TTL Auto - The flash is controlled by the camera, based on the information sent from it. The flash fires a pre-flash before the main flash fires so that the camera can obtain the necessary information on the subject to set the output of the main flash automatically.

ADI* (Advanced Distance Integration flash metering) - Combines distance information from the autofocusing system with information from a pre-flash exposure.

* High Accuracy ADI in combination with D Lens (Lens with built-in distance encoder)

SPECIFICATIONS

Power Source : 4 (1.5V) AA Alkaline Batteries or Promaster Rechargeable NiMH Batteries
Zoom Range : Motorized 24 mm to 105 mm (Zoom Position : 24, 35, 50, 80, 85, 105)
Recycling Time : 0.3 - 1 sec
Flash Duration : 1/30,000 to 1/1,000 sec
Bounce Angle : 7° to 90° (Click stops : 7°, 0°, 45°, 60°, 75°, 90°)
Guide Number (at ISO 100 in feet) : 20 (24mm-35mm), 22 (35mm-50mm), 25 (50mm-80mm), 27 (80mm-105mm)

TTL Auto Range at ISO 100 : Approx. 2 - 86 feet

Angle of Coverage : (based on a 35mm format SLR camera)

Vertically : 75° to 60° to 45° to 34° to 22° to 20°
Horizontally : 92° to 78° to 60° to 46° to 31° to 27°

(A wide-angle Diffuser accessory is provided)

Note: The digital camera's lens requires shorter focal lengths to obtain the same angle of coverage as their 35mm counterparts. Please check the field of view (FOV) crop factor i.e. focal length multiplier of your digital camera for 35mm equivalent FOV.

* The specifications are based on the latest information available at the time of printing and are subject to change without notice.