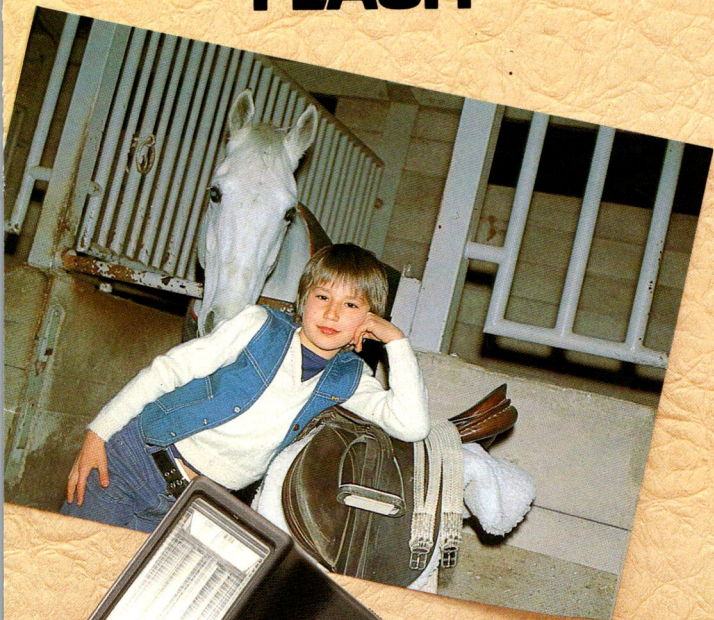


Bright Lights for Your Canon

Canon
Automatic
FLASH



Dedicated to the Lighter Side of

When darkness falls, do you call it quits and put your camera away until the next day? If you do, you are missing out on a lot of fun in photography. Kids' birthday parties and other happy events often take place indoors and in the evening. The answer, of course, is to use a flash. Too tricky? Not if yours is a Canon Speedlite. Our Speedlites are specially designed to take the worry out of flash photography. They are automatic, so there's no need for complicated calculations or guesswork. And they are dedicated to your Canon SLR. With A-series Canons, they perform a variety of automated functions, such



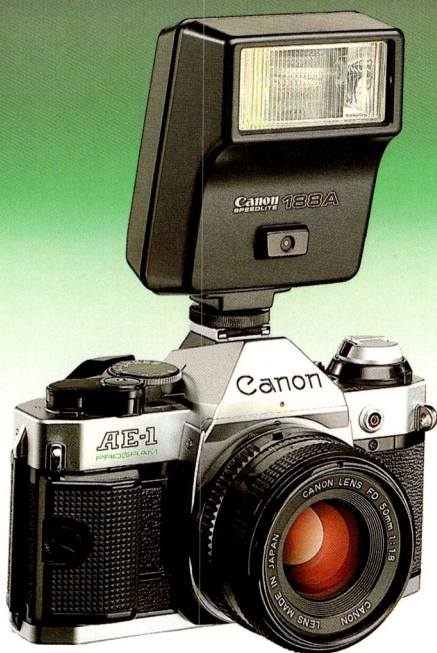
Photography

as setting the x-sync speed and even the correct lens aperture in some cases. Depending on the camera, symbols will appear in the viewfinder to tell you when the flash is fully charged and, afterwards, whether exposure was correct.

Flash photography with Canon Speedlites: it's fun, because it's easy.



Speedlite 188A



The 188A and AE-1 PROGRAM are the perfect match. So that you don't miss any of the action, a "⚡" appears in the camera's viewfinder when the flash is charged. On shutter release, the symbol blinks to tell you that exposure was correct. The selected auto aperture is also displayed. The 188A is a champion performer on other A-series models as well, providing varying degrees of flash automation.



Speedlite 166A



It's the energy conservation age and that goes for this handy Speedlite as well. It measures the light reflected back from the subject and stores unneeded energy for the next shot. And when it uses up all the power on a more distant subject, it automatically switches the camera over for normal AE photography. You can then shoot with available light while waiting for the flash to recharge. The camera reverts to flash mode when the pilot lamp lights up. The 166A offers 35mm lens coverage and takes four AA-size penlight batteries.



Speedlite 199A



The 199A represents the ultimate in electronic sophistication, employing an L²L LSI for full flash automation. Yet, for all its space-age capabilities, it is surprisingly easy to use. All you have to do is turn it on and set one of the three auto apertures (f/2.8, f/5.6 and f/11, ASA 100). GN is a powerful 30 (ASA 100,m). This extra power comes in handy when taking advantage of another 199A feature: bounce flash. The head can be tilted 90° upward, with intermediate click stops. Slow sync flash is another possibility, by setting the Auto/Manual switch to Manual and selecting a shutter speed slower than 1/60. The calculator dial and aperture selection window can be illuminated when taking pictures in dark places. With a Wide Adapter, the 199A will cover the angle of a 24mm lens. And because the 199A links up perfectly with your camera's circuitry, automatic flash continuous shooting with a power winder or motor drive is possible.

Speedlite 155A

Speedlite 133A



Speedlite 177A

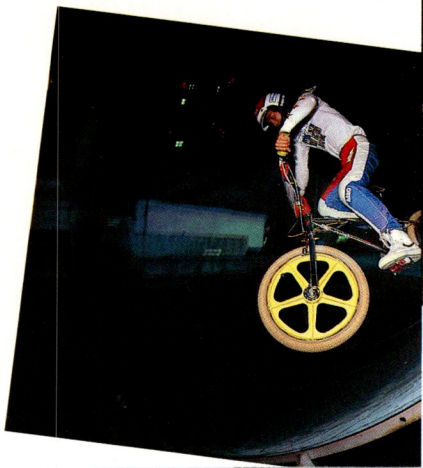
Slip one of these economical Speedlites onto your camera's hot shoe for worry-free automatic flash photography! The 177A and 155A have two auto flash apertures (f/2.8 and f/5.6) plus a manual setting, providing ample light for most situations. The 133A has a single f/4 auto aperture and GN (guide number) of 16. All three units give 35mm flash coverage. A 28mm Wide Adapter is available for the 177A.



Speedlite 011A



To prove our point that flash photography is as easy as taking pictures in daylight, we brought out the petite 011A. The junior member of the Speedlite family, the 011A is so handy that even pros make it a habit to take one along on their assignments. It's light (just 155g, with batteries) and slim enough to fit in a shirt or coat pocket. What's more, it can be used with the New F-1 and any A-series SLR. It has surprising power, too. You'll get full coverage with lenses as wide as 35mm. When the unit is charged, its pilot lamp glows. The lamp also doubles as a flash test button.

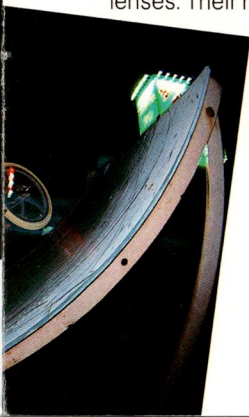


Speedlite 577G

Speedlite 533G



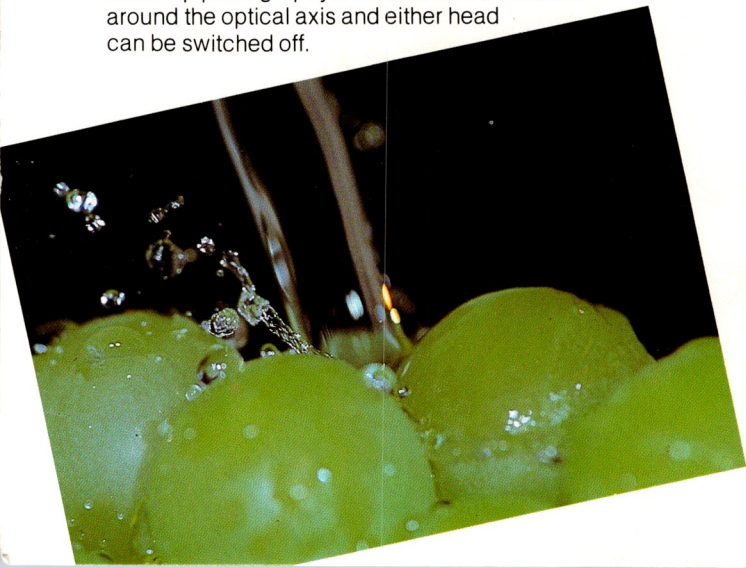
If you want to get the entire cast of a play into the picture or shoot indoor sporting events from a distance, then these are the Speedlites for you. With nearly three times the firepower of the smallest Speedlite, the 577G and 533G are the mainstay flash equipment of many pro photographers who use Canon. The most powerful of the pair, the 577G, has a GN of 48 (ASA 100·m) and is powered by an external alkaline-manganese or rechargeable Ni-Cd battery pack. Both Speedlites attach to the camera with a quick-release bracket. Their separate sensor is installed on the camera's hot shoe. Wide Adapters extend flash coverage to 24mm or even 20mm and an optional Tele Adapter is available for 100mm lenses. Their heads are adjustable horizontally and vertically to afford total bounce control, while slow sync flash is another creative option. Multiple flash units can be used in series.

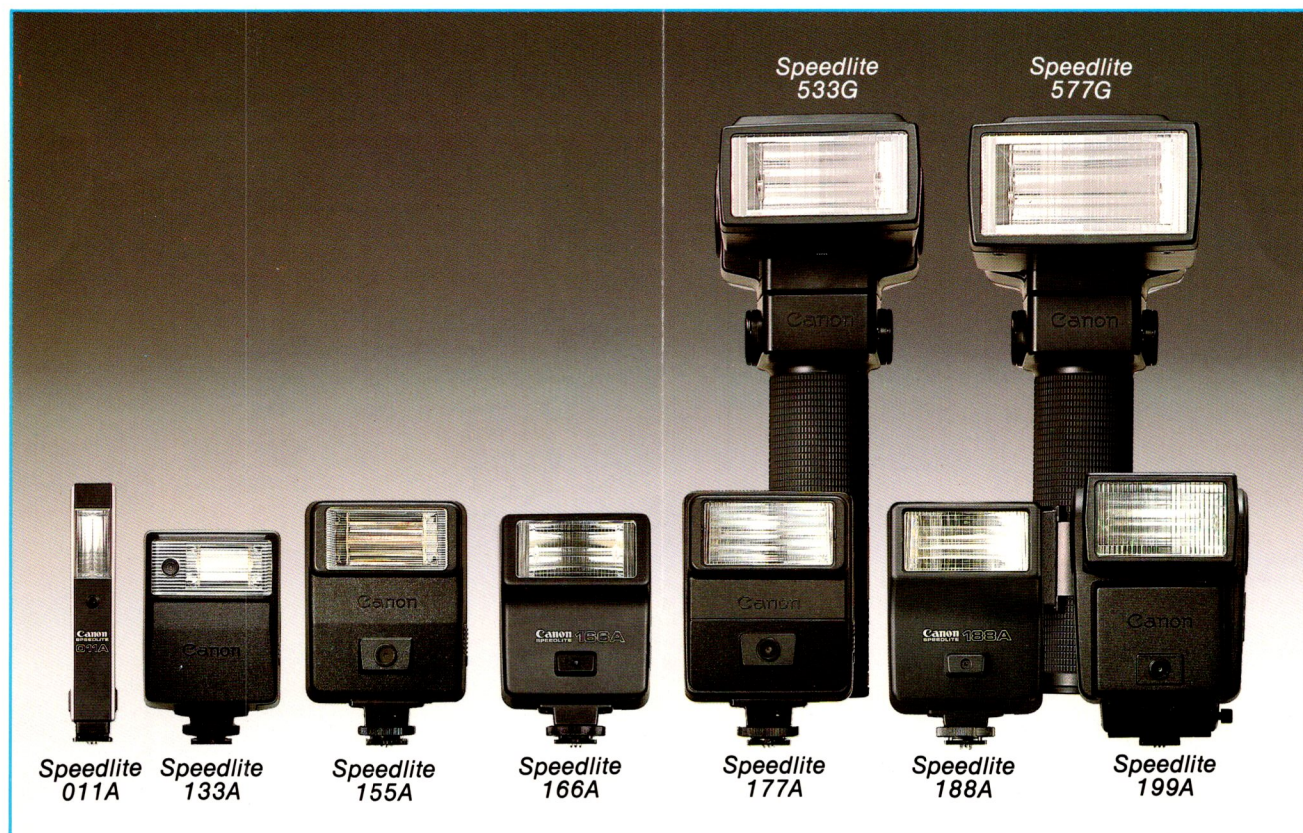


Macrolite ML-1



Taking pictures like the one below is a breeze with this twin-headed flash. The ML-1 provides the most appropriate distribution of light for close-up applications. Used with a Canon Macro Lens or the New FD 80-200mm f/4 zoom lens, the ML-1 is especially effective for medical applications. It is also enjoying use among the growing numbers of amateurs who have discovered the fascination of close-up photography. The flash can be rotated around the optical axis and either head can be switched off.



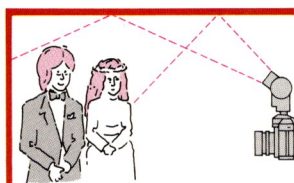


Feature \ Speedlite	011A	133A	155A	166A	177A	188A	199A	533G	577G
Guide Number	14 (ASA 100·m) 23 (ASA 25·ft.)	16 (ASA 100·m) 26 (ASA 25·ft.)	17 (ASA 100·m) 28 (ASA 25·ft.)	20 (ASA 100·m) 33 (ASA 25·ft.)	(without Adapter) 25 (ASA 100·m) 41 (ASA 25·ft.)	(without Adapter) 30 (ASA 100·m) 50 (ASA 25·ft.)	(without Adapter) 36 (ASA 100·m) 60 (ASA 25·ft.)	(without Adapter) 48 (ASA 100·m) 80 (ASA 25·ft.)	(without Adapter) 48 (ASA 100·m) 80 (ASA 25·ft.)
Min. Usable Lens Focal Length	35mm				35mm 28mm with Wide Adapter	35mm 24mm with Wide Adapter	35mm 24 and 20mm with Wide Adapter	35mm 24 and 20mm with Wide Adapter	35mm 24 and 20mm with Wide Adapter
Auto/ Manu Switch	F4	F4	F2.8, 5.6 (ASA 100) Manu				F2.8, 5.6, 11 (ASA 100) Manu	F2.8, 5.6, 11 (ASA 100)	F2.8, 5.6, 11 (ASA 100) Manu
Auto Shooting Dist. Range. Min. to Max. (Differs with Auto Aperture)	0.5—7m 1.6—22ft.	0.5—8m 1.5—26ft.	0.5—6m 1.6—20ft.	0.5—7m 1.6—22ft.	0.5—9m 1.6—30ft. less with Wide Adapter	0.5—10.6m 1.5—35ft. less with Wide Adapter	1—12.8m 3.3—42ft more with Tele-Adapter less with Wide Adapter	1—17m 3.3—56ft more with Tele-Adapter less with Wide Adapter	1—17m 3.3—56ft more with Tele-Adapter less with Wide Adapter
Bounce	No				No		Yes		
Manual Flash	No		Yes		Yes			No	Yes

Guide Number

This indicates the Speedlite's output. GN is expressed in terms of either meters or feet, with ASA 100 and ASA 25 film, respectively. Divided by the distance to the subject, it gives the appropriate lens f/stop for correct exposure in manual mode, e.g.,

$$\frac{\text{GN } 16}{4 \text{ (m)}} = f/4$$



Bounce Flash

A technique used to avoid the harsh, contrasty effect of direct flash. Light can be bounced off the ceiling or a wall by tilting the flash head upwards or horizontally. The reflective surface should be a neutral color, preferably white.



Slow Sync Flash

Normal flash sync speed is 1/60 sec for most Canon SLRs (1/90 for the New F-1). Slower speeds may be selected, however, to brighten a dark background or to create special effects, such as the photo above. Slow sync flash photography is only possible with the A-1, F-1 and New F-1 and Speedlites 199A, 533G and 577G.

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