

Profoto





- 1: **Mains connection**
D4 generators work at 90-130V/180-240V 50/60Hz.
- 2: **Indicator for mains connection**
- 3: **On/Standby button**
- 4: **Sync sockets**
The Profoto D4 uses two 6.3mm (1/4") "phono" sync sockets, so your flash meter and camera can be connected simultaneously without having to unplug one for the other.
- 5: **Photo/IR-cell**
- 6: **Photo/IR-cell On/Off button**
On/off for the built-in photocell. Sensitive also for IR-signals.
- 7: **Auxiliary functions button**
When holding down this button you get access to 4 additional features which are displayed in the power displays (10):
 - A. Interval – Set the time between the flashes. Intervals of from 0.1-60 seconds are possible between flashes.
 - B. Sequence – Select a number of flashes. 2-60 flashes can be programmed.
 - C. Delay – Delay the triggering of the flash with very high precision. Delay can be set from 0.01-60 seconds.
 - D. Radio channel and zones. Optional 32 channel/4 zone digital wireless freedom module eliminates the need for sync cords.
- 8: **Auxiliary function display**
Shows the activated auxiliary function(s).
- 9: **Lamp head sockets**
Special arc-proof connectors provide safety while ensuring maximum performance and ultimate reliability.
- 10: **Power displays**
Shows the power output for each head in a user-selectable format of either f-stops or watt seconds. Can be toggled back and forth with the single touch of a button.
- 11: **Ws/f-stop and Memory save/recall button**
Toggle between showing power used in Watt seconds or in f-stops. 3 memory presets allow you to record commonly used setups for easy duplication in the future.
- 12: **Individual on/off flash and model light**
Model light on/off by quick push and flash on/off if pushed and held.
- 13: **Power dials**
By rotating the dials, 1/10 f-stop adjustments are made. If the dial is depressed while rotating, full f-stop adjustments are made, giving the photographer unsurpassed control, while the display reads off the changes over the entire 8-f-stop range.
- 14: **Master button**
By holding down the button while turning any one of the individual lamp head power dials, the pack will automatically adjust all channels equally. This makes overall power adjustments quick and easy.
- 15: **USB port**
Controls all functions of up to 127 packs from a single computer. The Mac software is supplied with the generator.
- 16: **Ready mode indicators**
- 17: **Ready mode button**
Ready flash status is indicated by different audible and optical signals.
- 18: **Ready lamp & Test button**
Illuminates when the flash is 100% recycled.
- 19: **Model light button**
 - A. Max – Modeling light is on full power regardless of the flash output settings.
 - B. Max Proportional – regardless of where the power is set for each individual lamp head on a single pack, the lamp head receiving the most power will automatically have max modeling light and the other connected heads will have a proportional modeling light.
 - C. Proportional – as the power is raised or lowered, the modeling light dims or brightens proportionally to show a true lighting ratio between the lamp heads.
 - D. 1/2 proportional – same as proportional, but modeling light begins at 1/2 power. This is especially useful when mixing 1200 and 2400 or 2400 and 4800 flash generators on the set.
 - E. Off.
- 20: **Model light indicators**
- 21: **Normal/Fast recycle switch**
Switching to normal recycle draws less current and extends the recycling time. This is ideal when shooting in locations that have low amp fuses.



D4 Auxiliary display (7)

When the auxiliary button is held down, the power displays (10) will show the four auxiliary features as described under 7.



Profoto D4 Flash Generators Offer:

- 3 generators 1200, 2400 or 4800 Ws
- Four individually controlled full asymmetric adjustable lamp connections
- Direct control of all functions
- 8 f-stop power range for precise control in 1/10 f-stop increments
- Unique ergonomic design
- Highest power stability from flash-to-flash; no f-stop shifts
- Constant colour temperature flash-to-flash and over the entire power range – regardless of the number of flash heads used
- Innovative special functions, all logically controlled
- Optimal, repeatable results with analogue AND digital photography
- Comfortable computer control via USB connection
- Extensive range of lightshaping tools and accessories
- Optional wireless synchronisation by digital radio signals

The Profoto D4 is a culmination of over a decade of research, planning, and development, offering photographers a complete professional lighting system capable of results no other flash system can achieve. The perfect blend of tradition with modern technology and microelectronics, this hybrid solution offers features and advantages that all professionals can benefit from. The D4 products are the most universal flash devices yet produced by Profoto.

The unique ergonomic design combines the positive feel of mechanical knobs and switches with the precision of electronic technologies. This combination allows for precise control in 1/10 f-stop increments, all with digitally-controlled output, insuring that flash and colour temperature remain consistent every time.

Four independent outlets provide true asymmetric operation with the turn of a dial. Working with one D4 generator is like using four separate flash packs. Over an 8 f-stop range, the Profoto D4 gives photographers the ability to adjust the light from the control panel, without the need for unplugging and re-plugging lamp heads. All this control while being compatible to a comprehensive array of Profoto heads and the huge range of Profoto accessories.

Auxiliary functions such as sequence, delay and intervalometer, make tricky lighting setups simple. With these features, photographers can select the number of flashes, the amount of time between each flash, as well as an initial delay, all from the generator in a straightforward way.

The Profoto D4 comes supplied with a software package that provides full control of up to 127 generators from a single computer via USB connections. So whether shooting film or digital, the entire production can be orchestrated from one place. Adjusting power, modeling light, as well as the auxiliary functions can be completed with the click of a mouse. Individual lamp heads can be turned on/off right from the computer screen. Control has never been simpler.



Profoto D4 Generators; 1200, 2400 and 4800 Ws

This new flash generator from Profoto is the perfect combination of digital precision and versatility with analogue control and reliability. This gives you the immense possibilities of computer technology and the logical handling of a classic instrument. D4 generators grow with your demands. They are suited to all kinds of sophisticated photography such as still life, interior, people and product shots.

Advanced Functions

In producing the next generation of flash, design goals were set to give the pack a look and feel of the sophisticated, precise working tool it was conceived to be. From its sleek and ergonomic shape to its responsive controls, the Profoto D4 offers microprocessor regulation for consistent output, whether you work from the pack or control it from your computer. Even though D4 generators offer the most advanced functions, they are easy to use and almost self explanatory.

Full Direct Control

Designed from the ground up with the commercial photographer in mind, the all-new, digital Profoto D4 flash generators set the standard for consistency and control. The four channel asymmetric system allows direct control of each lamp head. Each head is controlled by a separate knob with a corresponding high contrast LED panel. Simply working with one D4 generator is effectively the same as using four independent flash units.

By rotating the knob, 1/10 f-stop adjustments are made. If the knob is pressed down while rotating, full f-stop adjustments give the photographer unsurpassed control over an eight f-stop range. In addition, the energy can be asymmetrically distributed over a broad range.

When the light setup is created, the power ratio can be individually controlled for each lamp head by using any of the four separate power controls. For adjusting the total exposure after the correct ratio is set, all channels (power settings) on the generator can be changed simultaneously by holding down the master button and turning any one of the lamp head controls in use.

Making Overall Output Changes Fast and Easy

The individual LED displays for each channel can be set by the user to display the flash power in Ws or in relative f-stops and always show the real output. In the Ws mode, the display indicates the actual watt second output for each individual head. If you prefer, output can be expressed in f-stops, with 100% power being equal to 10 on the scale. With the reduction of one f-stop in power, the display reads 9. Likewise, a 1/10 f-stop increase would read 9.1 and so on. And thanks to the microprocessor-controlled output, you can be sure that each head will produce exactly the amount of light you want each and every time.

Perfect Performance

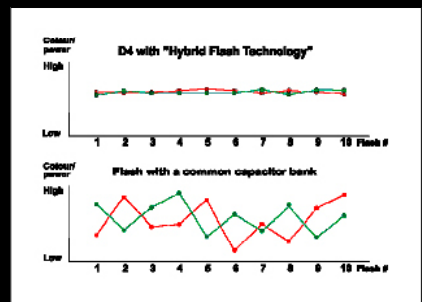
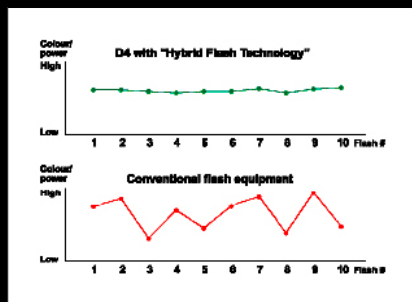
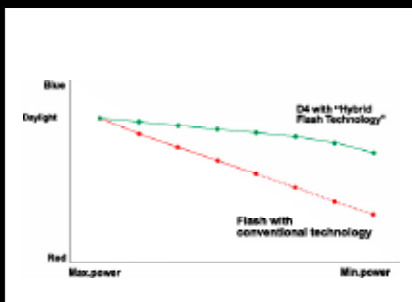
Short flash duration and fast recycling are inherent in the design of a Profoto generator. The D4 2400 offers flash durations from 1/4500 to 1/600 sec. and recycling times from 0.09 to 2.20 sec. The D4 4800 has a flash duration from 1/2700 to 1/350 sec and recycling time from 0.12 to 4.40 sec. In addition, from flash to flash and over the entire power range, no shifts of the colour temperature or f-stop will occur – even if four heads are used. This guarantees accurate, consistent results for all analogue and digital shots.

In the range of 90-240 V/50-60 Hz, the D4 generators will automatically adjust themselves to the mains voltage; only the modeling lamps need replacing.

Thanks to the 4 independent outputs, many jobs can be done with just one generator – a comfortable solution for the “pro-on-the-go”. No matter what and where you shoot, with a Profoto D4 you’ll always have the ideal tool. And because of their solid construction and the use of high quality components, these packs are real workhorses, something you can trust in. Profoto D4’s are true all-around generators.

Imaging today requires consistency in output and colour whether shooting film or digital. Profoto’s unique “Hybrid Flash Technology” ensures repeatable performance from exposure to exposure over the life of the generator.

This is made possible through the use of advanced electronics and microprocessors, combined with the time-proven approach that has made Profoto the industry leader in electronic flash systems.



Profoto range of Heads

The new Profoto D4 is fully compatible with the existing line of Acute Heads and the new ProHead. Furthermore, all former Acute and, in 220-240V countries, Pro-3-5-6-7 heads can be used. This allows full interchangeability between the generators and the entire line of Profoto light shaping tools, ensuring the very finest quality of light possible every time an exposure is made.

The legendary design of Profoto heads permits accessories to be "focused". By sliding the reflector back and forth on the head, the angle of light as well as the quality of the light changes. In the narrowest position, light produced is hot in the center graduating off towards the ends, making dramatic lighting easy, even when using a large soft box.

In the widest position, light is even from the center to the edges illuminating the area evenly. This flexibility is rarely seen in lighting systems, but it is the basis on which all Profoto light shapers and heads are designed. The Standard Zoom Reflector is a universal tool. It offers the functions of a wide angle, umbrella and standard reflector.

The heads feature circular, heavy-duty, Quartz, ozone-free flash tubes with frosted protection domes that surround both the flash tube and standard 250 watt (500W optionally) halogen modeling light. They provide matched and even illumination with maximum light output efficiency. As with all Profoto lamp heads, special "arc-proof" connectors provide safety while ensuring maximum performance and ultimate reliability. All heads are supplied with a 5/8-inch adapter to mount the units to any standard light stand.



Acute/D4Twin
90 06 78

Similar to the Profoto AcuteHead, the TwinHead offers many of the same features. The main difference is the use of two U-shaped flash tubes. The use of two separate flash tubes allows twice the amount of energy to be released from a single head. The two separate power cables can be connected to two different generators allowing up to 9600 watt seconds of energy to be released through a single light shaping tool, or you can get shorter recycling time. If both cables are plugged into the same generator, shorter flash durations are achieved.

Unit includes: two quartz flash tubes, 500W halogen modeling lamp, 5m (16.4') lamp head cable, removable, frosted glass cover, Magnum Reflector and plastic transportation cap. Umbrellas can be mounted directly in the head.



Acute/D4 Head
90 06 66

With a modeling light of 250 W or 500 W and a maximum flash output of 4800 Ws, the Acute/D4 Head is the top of the line of all lamp head for all Acute generators, as well as the Profoto D4, especially with its fan-cooled head. When using this head on the AcuteB 600 there is a special adapter allowing you to use the modeling light with the battery-powered 65 W high efficiency lamp.

The Acute/D4 Head includes: Zoom Reflector, flash tube, 250 W halogen lamp, removable frosted glass cover, protective transportation cap, and a 4 m (13 ft) lamp cable.



ProHead
90 07 09

In the studio, the standard heavy-duty tool is the Profoto ProHead with 250 W or 500 W halogen lamp, built for producing flashes up to 4800 Ws, over and over again, hour after hour. The fan works when the head is used on all packs except Pro-7b.

The ProHead includes: the New Zoom Reflector, UV-safe flash tubes, 250 W halogen lamp, removable frosted glass cover, protective transportation cap, stand adapter and a 4 m (13 ft) lamp cable.

Profoto D4

	D4 1200	D4 2400	D4 4800
f-stop at 2m (ISO 100/21°)			
Magnum reflector	90	128	180
Standard Zoom reflector	45	64	90
Umbrella, white with Standard Zoom reflector	22	32	45
Power			
Power range (1/10 or 1/1 steps)	8 f-stops	8 f-stops	8 f-stops
Watt seconds	9–1200	18–2400	36–4800
Max. modeling light	4x500 W	4x500 W	4x500 W
Power distribution	4 outlets, asymmetric	4 outlets, asymmetric	4 outlets, asymmetric
(A: max. 100%, B: max. 100%, C: max. 50%, D: max 25%)			
Flash duration (t 0,5)			
Min.	1/7500 s	1/4500 s	1/2700 s
Max.	1/1000 s	1/600 s	1/350 s
Flash recycling (117 V/60 Hz a. 230 V/50 Hz)			
Min.	0.07 s	0.09 s	0.12 s
Max.	1.20 s	2.20 s	4.40 s
Stability			
Voltage	±0.4%	±0.4%	±0.4%
Power	better than ±0.8% (equivalent to 1/100 f-stop)	better than ±0.8% (equivalent to 1/100 f-stop)	better than ±0.8% (equivalent to 1/100 f-stop)
Colour temperature (total power range)	better than ±150 K	better than ±150 K	better than ±150 K
Measurements	29x28x20 cm* 11.4"x11"x7.9"	32x28x20 cm* 12.6"x11"x7.9"	36x28x20 cm* 14"x11"x7.9"
Weight	10 kg / 22 lbs	11.5 kg / 25.4 lbs	13.5 kg / 29.8 lbs
Miscellaneous	Automatic voltage-adjustment 90–240 V/50–60 Hz, USB connection (Software included), fast/slow recycling mode, 2x6.33 mm (1/4") synch inlets, integrated IR-sensible photocell. Optional with integrated radio slave receiver.		
Auxiliary functions:	Sequence, Interval and Delay.		
* including handles			