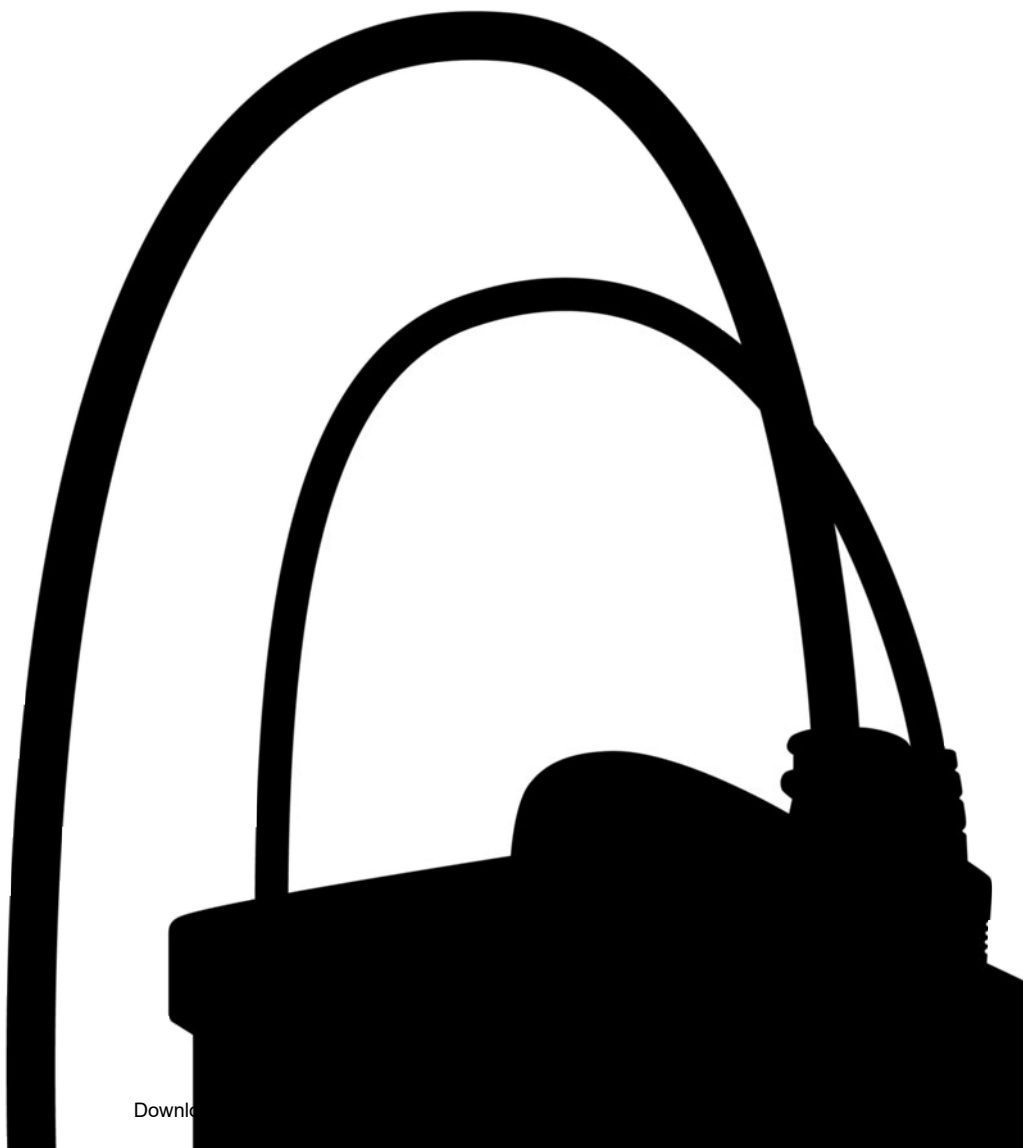


**Pro-7 Manual** Profoto, Stockholm, Sweden.



# Safety Instructions

Profoto generators and flash heads are part of a complete professional lighting system. Please read the instruction manual carefully before use. Flash tubes and modelling lights emit considerable heat and can be dangerous if not used properly. Always unplug the lamp cable from the generator before changing modelling light, glass cover or flash tube. Under no circumstances are generators or heads to be opened! There is high voltage inside the generator! Service is only to be carried out by authorised personnel.

- Never connect accessories of other brands without consulting an authorised service station.
- Do not touch hot glass or metal parts.
- Do not obstruct ventilation.
- Do not connect the lamp head with the transport cap in place.
- Never place filters or diffusing material directly onto glass covers, flash tubes or modelling lights.
- Never position the light extremely close to people.
- When mounting umbrellas, do not touch flash tubes or modelling lights with the metal shaft – risk of high voltage.
- Always use a grounded power supply/mains outlet.
- Protect the flash equipment against moisture, condensation, heat, sand and dirt.

# Contents

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Pro-7b 1200 . . . . .	33-41

## **The Pro-7 system consists of the following products:**

### Generators:

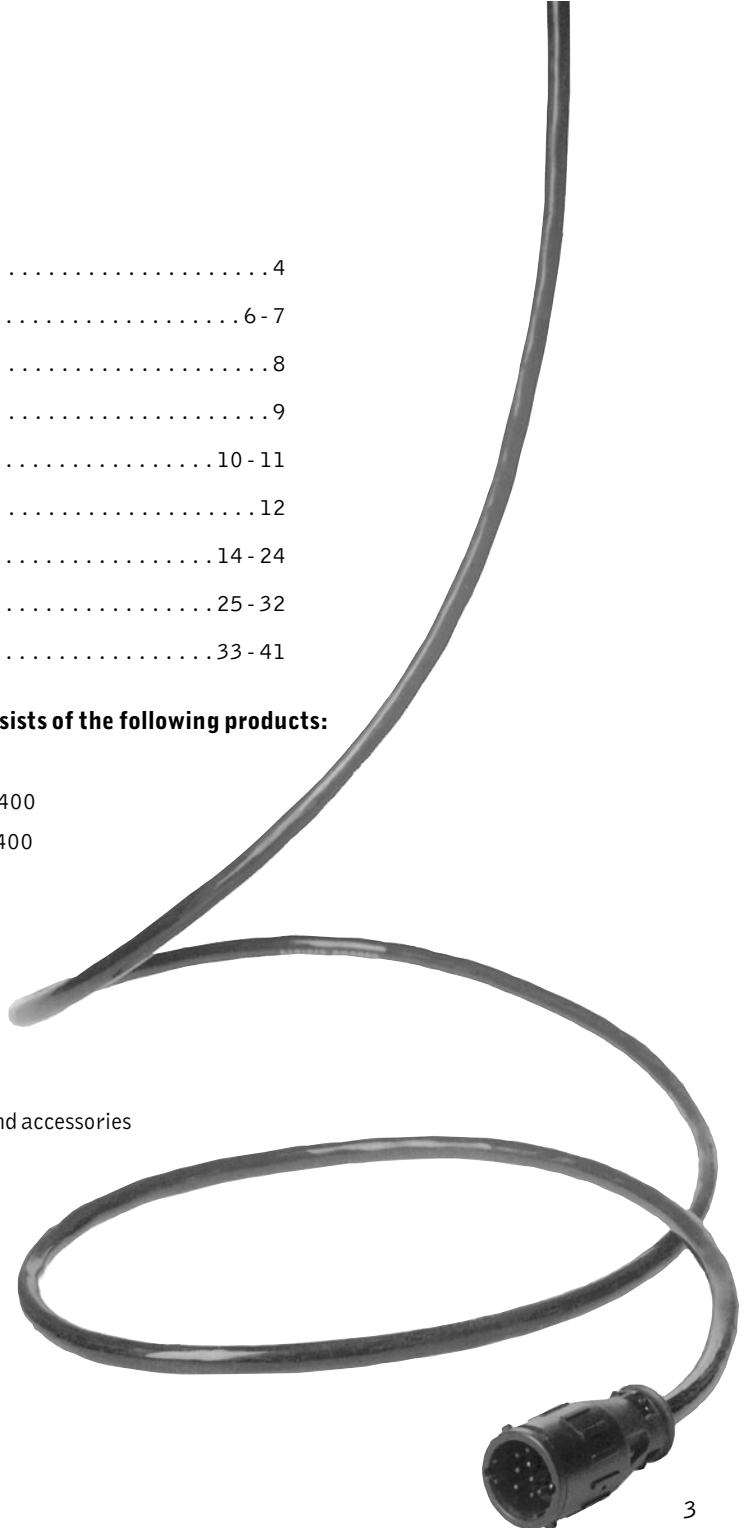
- Pro-7a 1200 och 2400
- Pro-7s 1200 och 2400
- Pro-7b 1200

### Heads:

- ProHead
- Pro-7b head
- ProTwin
- Pro-7 ring

All Profoto reflectors and accessories

fit the Pro-7 system



# Thanks!

Thanks for showing us your confidence by investing in a Profoto Pro-7 system. For more than three decades we have sought the perfect light. What pushes us is the conviction that we can even offer the most demanding photographer yet better tools. Still we know that we will never be able to offer the best light there is; the natural sunlight. But Pro-7 comes very close. It is the best series we have ever manufactured.

Before our products are shipped we have them pass an extensive and strict testing program. We check that they pass the quality and capacity levels the most demanding photographers require. For this reason our flash equipment is the standard in most rental studios in New York and Tokyo and the most rented flash all over the world. The system consists of different generators built and designed to meet the demands of the most demanding photographers on this planet. Yet the most important thing is the light you create and it is then essential that the system offers freedom to create your own light. The Pro-7 heads offer you this possibility in particular. The light source, both the flash tube and the modelling light, is placed high and free in the flash head. This makes it easier for you to adjust the light and use your creativity. The reflectors are moveable and lock easily into place. You can move the source of light toward the focus of the reflector to reflect the light backwards before it is projected forward. This is not new, of course. Our flash heads have always been designed that way. What is new, however, is our new glass cover, which is designed to increase precision. The Pro-7 head and the Pro-7 twin are supplied with a frosted and UV-coated cover glass, which together with the flash tube, produces a colour temperature adapted to daylight colour film. There are glass covers with varying filtration, for greater changes.

The whole Pro-7 system is modular. Every single reflector and accessory creates its special light and the unique Profoto focusing system offers you a possibility to create your own light with only a few different reflectors.



Profotos founders Eckhard Heine och Conny Dufgran,  
At "Photokina", Cologne, Germany 1968

"A photographer's tools are a natural part of the creative process. Like a painter's brush, an artist's chisel or a musician's instrument, their form and design should reflect their function, they should have the right feel, and they should be aesthetically pleasing".

# Profoto – The Light

MONOLIGHTS AND GENERATORS



ComPact 300      ComPact Plus 600      ComPact Plus 1200



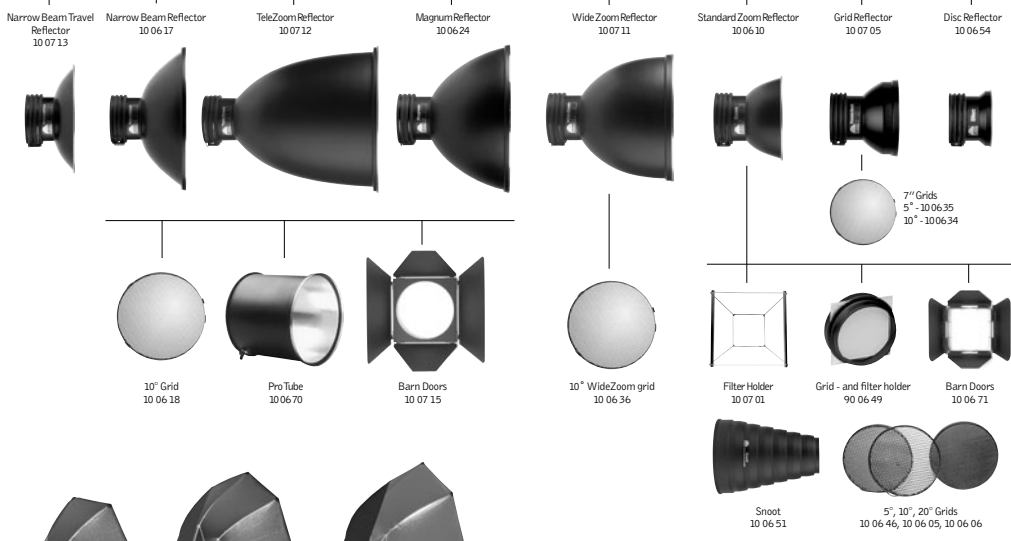
Acute2 2400/1200      Acute2 2400/1200 (with radio slave module)      Acute2 2400/1200 (with radio slave module)

HEADS



Pro Tungsten      ProDaylight HMI (and ballast)      Acute/D4 head 90 06 66      Acute/D4 twin 90 06 78

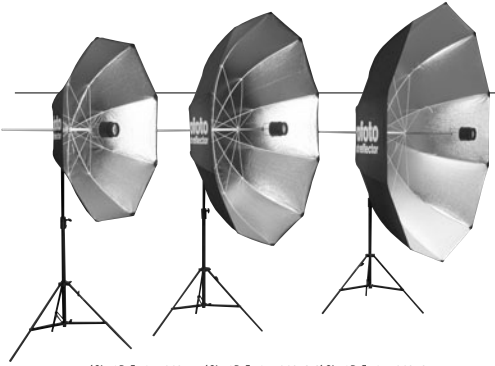
LIGHT SHAPING TOOLS



Narrow Beam Travel Reflector 10 07 13      Narrow Beam Reflector 10 06 17      TeleZoom Reflector 10 07 12      Magnum Reflector 10 06 24      Wide Zoom Reflector 10 07 11      Standard Zoom Reflector 10 06 10      Grid Reflector 10 07 05      Disc Reflector 10 06 54

10" Grid 10 06 18      Pro Tube 10 06 70      Barn Doors 10 07 15      10" WideZoom grid 10 06 36      7" Grids 5" - 10 06 35, 10" - 10 06 34      Filter Holder 10 07 01      Grid - and filter holder 90 06 49      Barn Doors 10 06 71

Snoot 10 06 51      5", 10", 20" Grids 10 06 46, 10 06 05, 10 06 06



5' Giant Reflector 10 03 11, 7' Giant Reflector 10 03 12, 8' Giant Reflector 10 03 13  
Diffusers available (-1/3 and 1 f-stop)



Softbox 1x3' RF (30x90cm) 25 45 36      Softbox 1x4' RF (30x120cm) 25 45 24      Softbox 1x6' RF (30x180cm) 25 45 34      Softbox 2x2' RF (60x60cm) 25 45 25      Softbox 2x3' RF (60x90cm) 25 45 26

Softgrids, masks and

# Light Shaping System



1200/2400

D4r 1200/2400  
(with radio slave module)

Pro-7b

Pro-7s 1200

Pro-7s 2400

Pro-7a 1200

Pro-7a 2400



Acute/D4 ring  
33 05 13

Pro-7b head  
90 07 25

ProHead  
90 07 09

ProTwin  
90 07 19

ProRing  
30 05 15



ProGlobe  
10 06 73

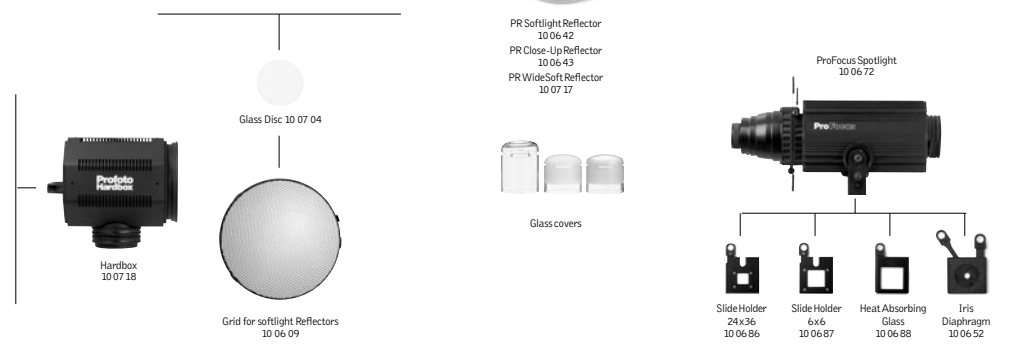
Softlight Reflector silver  
10 06 07

Softlight Reflector white  
10 06 08

PR Softlight Reflector  
10 06 42  
PR Close-Up Reflector  
10 06 43  
PR WideSoft Reflector  
10 07 17

ProFresnel  
10 07 06

Barn Doors for ProFresnel  
10 07 07



Hardbox  
10 07 18

Glass Disc 10 07 04

Grid for softlight Reflectors  
10 06 09

Glass covers

ProFocus Spotlight  
10 06 72

Slide Holder  
24x36  
10 06 86

Slide Holder  
6x6  
10 06 87

Heat Absorbing  
Glass  
10 06 88

Iris  
Diaphragm  
10 06 52

diffusers available.



Softbox 3'x4' RF  
(90x120cm)  
25 45 27

Softbox 4'x6' RF  
(120x180cm)  
25 45 35

Softbox 3' Octa  
(90cm)  
25 45 28

Softbox 5' Octa  
(150cm)  
25 45 29

ProBox  
90 05 61

Softbox Adapter  
10 06 60

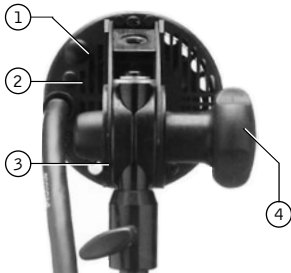
Head Adapter  
127mm - 10 06 30  
144mm - 10 06 33

Silver Umbrella  
10 06 16 - 1,05m  
10 07 20 - 1,30m

Translucent Umbrella  
10 06 13 - 0,85m  
10 06 14 - 1,05m

White Umbrella  
10 06 11 - 0,85m  
10 06 15 - 1,05m  
10 07 19 - 1,30m

# ProHead



The modelling light is turned on and off with the black switch [1] at the back of the head. The built-in fan can easily be switched between continuous and thermostat-controlled operations [2]. Please note that when changing modelling light, flash tube or glass cover the lamp cable must be disconnected from the generator.

The modelling light has a mini-can socket (E11). The flash tube has two metal pins. When removing a flash tube, pull it straight out of the sockets. When inserting a new flash tube, check that the trigger-wire clasps properly around the flash tube (please see mounting instructions in package). When mounting the glass cover, check that both locking springs connect properly into glass cover holes. In case the head overheats the modelling light automatically switches off. When the temperature has dropped sufficiently the modelling light will switch on again. At the back of the head there is an opening for attaching accessories such as filters and barn doors. There are glass covers for different colour temperatures available.

Loosening the handle [4] can easily alter the flash head position. An umbrella can be mounted in the umbrella holder.

The ProHead is normally delivered with a 250W modelling lamp but can be equipped with a 500W lamp if using the longer (100mm) glass cover used on the ProTwin.

---

10.15.33	Glass Cover, frosted, UV-coated (standard)
10.15.34	Glass Cover, frosted, uncoated, + 300° Kelvin
10.15.35	Glass Cover, frosted, extra UV-coated, - 300° Kelvin
10.15.36	Glass Cover, clear, uncoated, + 300° Kelvin
10.15.37	Glass Cover, clear, UV-coated



## Pro-7b head

The Pro-7b head is a small and easily transportable flash head exclusively designed for the Pro-7b generator. Please note that when changing modelling light, flash tube or glass cover the lamp cable must be disconnected from the generator. The modelling light is a standard 100W lamp with an E11 socket. The flash tube has two pins. When removing a flash tube, pull it straight out of the sockets. When inserting a new flash tube, check that the trigger-wire clasps properly around the flash tube (please see mounting instructions in package). The head has no fan. Because of the heat generated there is a certain limitation to the number of flashes per minute. At the back of the head there is an opening for attaching accessories like filters and barn doors.



- 10.15.28 Flash Tube, uncoated
- 10.20.14 Modelling light 100 W, 120 V, E11 socket




---

### ProHead cont.

- 10.15.28 Flash Tube, uncoated
- 10.20.02 Modelling Light 250 W, 120 V, Mini-can socket (E11)
- 10.07.09 Handle for Pro-7 head, Pro-7b head and Pro-7 twin

# ProTwin



The ProTwin is used to obtain extremely short flash duration, very quick recycling or to get 4800 Ws out of one single head. There are two flash tubes in a ProTwin. As the flash duration is shorter at low power settings, and as only half of the desired power is used in each tube, consequently shorter flash duration is obtained. For example if you need 1200 Ws, you fire 600 Ws from each tube, and your flash duration is shorter than if a standard ProHead is used. The flash duration at 1200 Ws with a ProHead is 1/2200 while it is only 1/3200 with a ProTwin. One or two generators can be used.

If, on the contrary, you require 4800Ws from one head you connect ProTwin to two Pro-7/2400 generators. For the same reason shorter recycling times is obtained when two generators are used, as the recycling is faster when the generators in fact only need to recharge half the energy.

Flash duration and recycling for a ProTwin at a certain power setting - for example 1200 Ws - compares with a ProHead set at 600 Ws.

The modelling light is turned on and off with the black switch [1] at the back of the head. The fan is controlled by a built-in thermostat, which can be disconnected with the blue switch [2] after which the fan operates continuously.

Please note that when changing modelling light, flash tube

- 
- |          |   |
|----------|---|
| 10.15.18 | Glass Cover, frosted, UV-coated (standard)          |
| 10.15.19 | Glass Cover, frosted, extra UV-coated, -300° Kelvin |
| 10.15.20 | Glass Cover, frosted, uncoated + 300° Kelvin        |
| 10.15.21 | Glass Cover, clear, UV-coated                       |
| 10.15.23 | Glass Cover, clear, uncoated + 300° Kelvin          |

or glass cover the lamp cable must be disconnected from the generator.

The modelling light has a mini-can socket (E11). The flash tube has two metal pins. When removing a flash tube, pull it straight out of the sockets. When inserting a new flash tube, check that the trigger-wire clasps properly around the flash tube (please see mounting instructions in package).

When mounting the glass cover, check that both locking springs connect properly into glass cover holes. In case the head overheats the modelling light automatically switches off. When the temperature has dropped sufficiently the modelling light will switch on again. At the back of the head there is an opening for attaching accessories such as filters and barn doors. There are glass covers for different colour temperatures available.



### **Magic arm**

Fits ProHead, Pro-7b head and ProTwin. Filters and Barn Doors can be attached.



### **Handle**

Fits ProHead, Pro-7b head and ProTwin. Makes it easier to manoeuvre lamp heads when using soft boxes.  
(Included with all ProHeads)

---

### **ProTwin cont.**

- 10.15.32 Flash Tube, uncoated
- 10.20.07 Modelling Light 500W, 120 V, mini-can socket (E11)
- 10.07.09 Handle for ProHead, Pro-7b head and ProTwin

## Pro-7 ring



The ring flash fits all Pro-7 generators, and is an entirely mobile source of light. The interior diameter of 100 mm provides plenty of space for professional camera lenses. Since the camera holder can be tilted forward and backwards, as well as upwards and downwards, most cameras can be attached. This makes an excellent source of light in cramped areas, such as the interior of an automobile. Many fashion photographers also use the ring flash to find new angles and capture details. The ring flash provides a very distinct, directed light, but can be complemented by a soft light reflector, which increases the light source, thereby producing a softer light with fewer sharp shadows.

For close-ups, there is a reflector that focuses the light 50 cm in front of the camera lens. The maximum charge is 9600 Ws per minute. This means 4 flashes a minute at 2400 Ws, 8 flashes at 1200 Ws, 16 flashes at 600 Ws, etc.

Changing flash tube is only to be done at a professional service station.

### Mounting the reflector

- Remove the two ridged screws fixating the camera holder.
- Remove the four ridged nuts holding the outer and inner reflectors together.
- Run the lamp cable through the outer reflector and let the reflector slide into position.
- Reassemble the outer and inner reflectors using the ridged nuts.
- Reassemble the camera holder using the two ridged screws.

## Pro-7 Generators



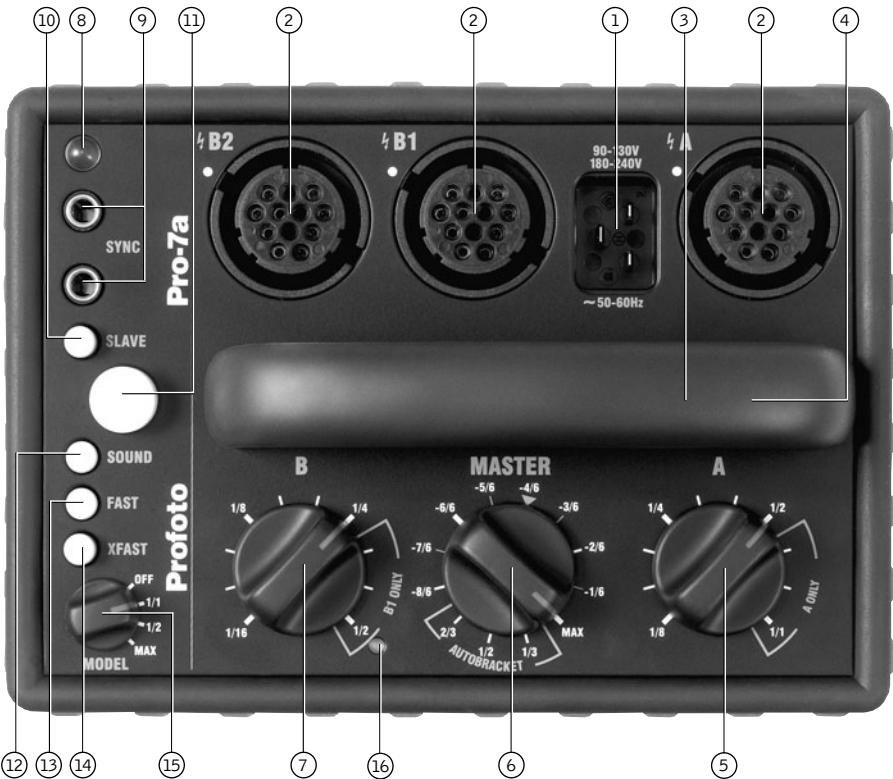
# Pro-7a 1200/2400 Generator

## Contents

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# Nomenclature Pro-7a Generator

- |   |                                    |
|---|------------------------------------|
| 1. Mains (AC) Connection                | 9. Sync Sockets                    |
| 2. Lamp Head Sockets A, B1 & B2         | 10. Photocell Button On/Off        |
| 3. Indicator for Mains (AC) Connection  | 11. Ready Lamp & Test Button       |
| 4. Mains (AC) Power On/Off              | 12. Audible Signal On/Off          |
| 5. Energy Dial for Lamp Socket A        | 13. Slow/Fast Recharging Button    |
| 6. Energy & Bracketing Control          | 14. Turbo Recharging Button On/Off |
| 7. Energy Dial for Lamp Sockets B1 & B2 | 15. Modelling Light Control        |
| 8. Photocell                            | 16. "A only" Lamp                  |



# Pro-7a 1200/2400 Generator

## Brief Instructions

Connect the generator to the mains supply with the enclosed power cable [1]. The green lamp [3] should now light up indicating acceptable AC current to the generator.

- Connect the desired lamp heads to the sockets A, B1 & B2 [2].
- Use the control [15] marked MOD.LIGHT to choose modelling light mode.
- Press the button [4] marked ON to start charging. The white ready lamp [11] will light up when the generator is fully charged.
- Choose energy distribution. For socket A use dial A [5]. For the sockets B1 and B2 use dial B [7].
- Choose the desired energy with the energy control [6]. For full energy choose MAX.
- Connect sync cord and/or flash meter to the sync sockets [9] SYNC.
- Activate the photocell [8] by pressing the button [10] SLAVE
- Activate the audible signal by pressing the button [12] SOUND
- Choose fast recharging by pressing the button [13] FAST
- For extra fast recharging choose the button [14] TURBO

### Mains (AC) Connection

Use the included power cable to connect at [1]. The Pro-7 can be connected to all common mains voltages 90 - 240 Volt, 50-60 Hz. The generator automatically senses which voltage range is supplied. The green lamp below the handle indicates that the generator is receiving power from the mains. If not check the mains fuse for faults.

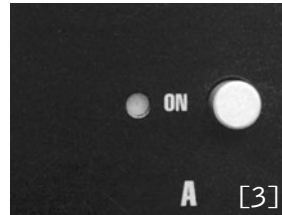
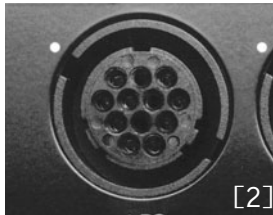
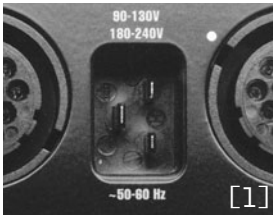
(Please also see "Gas Generator" on page 24).

**Warning:** Never use ordinary household extension cords to elongate the power cable.

### Connecting Lamp heads

One, two or three lamp heads can be connected to the sockets marked A, B1 and B2 [2]. When connecting the lamp head plug, align the white dots on the plug with the white dot on the generator panel. Secure by turning the locking ring on the plug clockwise.

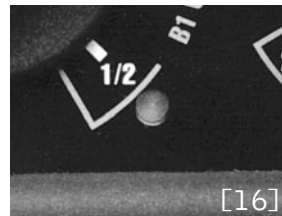




### Energy Distribution

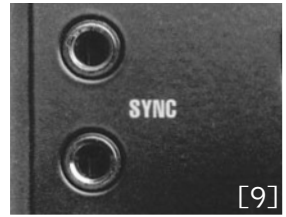
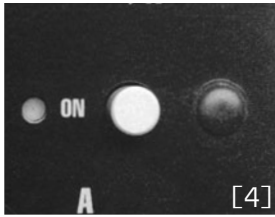
When only one lamp head is in use, choose the A socket. Only the A socket can be used to release the generator's total energy to one lamp head. Use dial A to adjust energy in 1/3 f:stop increments from full (1/1) down to (1/8) energy, which is equivalent to four [4] f:stops.

**PLEASE NOTE !** When the dial is positioned to release more than 1/2 energy (within the area marked A ONLY) always point the dial B towards the red indicator [16]. If this is not done, the indicator lamp will light up. The audible signal will sound and flash release will not be possible. When the dial is pointed within the "A ONLY" area, the flash is only released to



the lamp head connected to socket A, even if other lamp heads are connected to the B sockets. When a second lamp head is connected to socket B1 use dial B to adjust energy in 1/3 f:stop increments, from half energy (1/2) down to one sixteenth energy (1/16), which is equivalent to four [4] f:stops. When the dial is pointed within the B1 ONLY area, the flash will not be released through B2 even if a lamp head is connected.

**PLEASE NOTE!** To release a flash through B socket(s) dial A must be pointed to less than 1/2 energy. If not, an audible signal will sound and the red lamp [16] will light up at the B dial 1/2 position. When a third lamp head is connected to socket B2 use dial B to adjust energy in 1/3 f:stop increments from one quarter energy (1/4) down to one sixteenth energy (1/16). The B1 lamp head will follow i.e. when the B dial is positioned for 1/8 energy B1 and B2 will both receive 1/16 energy.



**PLEASE NOTE!** The energy output is determined by the energy dials A and B. The energy output will remain consistent, regardless of which lamp sockets are used or the number of lamp heads connected to them. Energy dumping is not necessary as long as the dial MASTER is turned to MAX.

### Energy Control

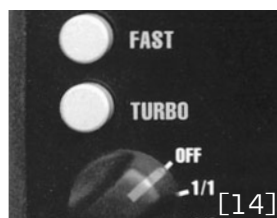
The generator's total energy is regulated with the control MASTER (6). The total energy can be adjusted in 1/6 f:stop increments from MAX down to minus 8/6 f:stops equivalent to 1 1/3 f:stops. When reducing the energy a flash has to be released with the white push-button [11]. Then the chosen energy is obtained. Please also see "Manual Bracketing" (page 20), "Autobricketing" (page 20) and "Colour Temperature" (page 23).

### Choice of Modelling Light

The control [15] MOD. LIGHT is used to choose the following alternatives:

- OFF Modelling light off
- 1/1 Modelling light is receiving the designated proportional full energy determined by the positions of dials A, B & MASTER
- 1/2 Modelling light is receiving the designated proportional half energy determined by the positions of dials A, B & MASTER
- MAX Modelling light is at maximum, regardless of energy settings

Half proportional modelling light is chosen when a Pro-7a/1200 and a Pro-7a/2400 are used together. To keep the modelling light proportionally aligned between the two generators, the Pro-7a/1200 is set to a 1/2 modelling light position, as the flash energy is half of the Pro-7a/2400.



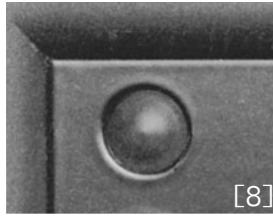
### Connecting Camera and Flash Meter

The two sync sockets [9] allow the camera and flash meter to be connected simultaneously. The 5 meter sync cord can without restrictions be elongated with a sync extension cable. Connecting generators can be done by means of the Profoto sync interconnection cord or by so called "hard wiring".



### Recharging

The recharging starts when the push-button [4] is activated. Slow, fast or turbo recharge can be chosen. When the two push-buttons [13] FAST and (14) TURBO are released, the generator will recharge slowly. Choose this alternative when the generator is connected to a mains supply with weak fuses, or if you are uncertain as to how well the mains supply is fused. This is also the case when weak gas generators are used for recharging (please see "Gas Generator" page 24). With the button [13] FAST activated normal recharging is obtained. This is sufficient for most kinds of photography. The recharging time is 1.1 sec at 1200 Ws and 2.2 sec at 2400 Ws (230 V). When extremely short recharging times are required, as in fashion and sports photography, or when a motor-drive camera is used press the TURBO [14] button. The generator will now recharge extremely fast, in 0.7 sec at 1200 Ws and in 1.4 sec at 2400 Ws. You may blow the mains fuse and consequently this procedure can only take place for a short period of time.



## Photocell

The built-in photocell [8] will sense flash release as well as IR-signals from most IR-transmitters. The photocell is disabled when the button [10] SLAVE is released.

## Bracketing

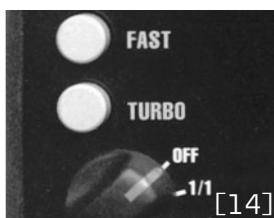
Manual exposure variations are performed as follows:

- Point the MASTER control [6] at the arrow and release an "open" flash by pressing the test button [11].
- Set the lighting as you would normally do, determine the appropriate f:stop and shoot the first frame.
- Turn the MASTER control to the desired over-exposure: 1/6 - 4/6 of a f:stop and shoot the second frame.
- Turn the MASTER control to the desired under-exposure: 1/6 - 4/6 of a f:stop. Release an "open" flash by pressing the test button [11] and then shoot the third frame

## Autobacketing

Exposure variations can also be obtained in an automatic way as follows:

- Point the MASTER control [6] at the arrow and release an "open" flash by pressing the test button [11].
- Set the lighting as you would normally do and determine the appropriate f:stop.
- Turn the control to the desired f:stop 1/3, 1/2 or 2/3
- Start the autobacketing procedure by pressing the test button [11] releasing an "open" flash.
- The generator will now recharge for a "normal" exposure, which is indicated by the test button [11] now flashing "normally" i. e. equal intervals of light and "no" light
- Shoot the first frame



- The generator will now recharge for an overexposed frame, which is indicated by the ready lamp lighting up for longer periods.
- Shoot the second frame
- The generator will now recharge for an underexposed frame, which is indicated by the ready lamp lighting up for shorter periods
- Shoot the third frame
- The generator will now recharge for a normal exposure, and so on.

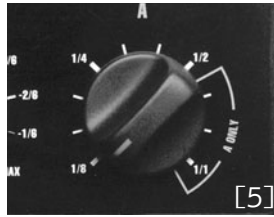
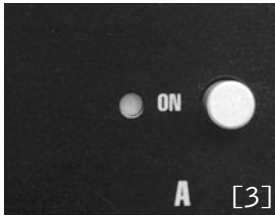
Turn the MASTER control towards the arrow each time new light readings are made.

When more than one generator is involved in autobracketing and all generators have been set up and prepared, the sequence is initiated by pressing the ready lamp button of the generator where the sync cord is connected. If unsynchronised flashing occurs on any generator, adjust by first disconnecting the lamp cable and then press the ready lamp until the "right" blinking rhythm is obtained.

### Automatic Safety Functions

If the generator overheats for any reason a protective system will automatically start up. The generator's recharging intervals will slow down and eventually the recharging will stop completely. After a while, when the temperature has decreased sufficiently, the generator will start recharging at a normal pace. This automatic protection will only start up under extreme conditions when the air vents are blocked for some reason. Due to the fast recharging, in TURBO [14] mode, at "exceptional" recharging speed (energy turnover) sensitive parts of the equipment, such as the flash tubes are protected, by lengthening the recharging time.

**PLEASE NOTE:** The air vents of the generator must never be blocked or covered in any way. Never store your flash equipment in a car on a hot and sunny day. Never use a generator that is placed inside a case or transport box. Avoid storing the generator close or below the freezing point, which can lead to loss of capacity (flash output) and risk of condensation when used in a warmer surrounding immediately. Do not expose any flash equipment to wet or humid environments or extreme electro-magnetic fields.



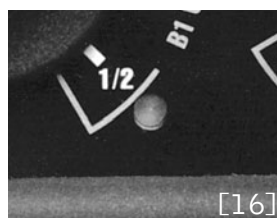
### Signals, Visible & Audible

The green indicator [3] below the handle will light up when the generator is connected to the mains supply. The white ready lamp button [11] will light up when the generator is fully charged. The characteristics of the light vary (please see "Autobracketing" page 20). When the generator is fully charged a short "beep" can be heard. Releasing the button [12] marked SOUND can turn off this signal. The red indicator [16] will light up and the "beep" will sound if the energy dial A [5] is in the A ONLY area and the dial B is not pointed towards the red indicator. Point dial B towards the red indicator and the "beep" will disappear.

If a flash is released before the generator is fully charged a long "beep" will sound, indicating an underexposed frame.

### Reliability Testing - The R-Test

The Profoto R-test guarantees that all products leaving the factory meet the very high standards required of professional equipment by professional photographers. The R-test is a rigorous performance test that Profoto generators are put through - 720 full power flashes are released during one hour, which is equivalent to 20 rolls of 35 mm film. After the test the equipment is examined to see that all parts have kept a normal operating temperature and are not malfunctioning in any way. All Profoto products are subjected to the R-test prior to being shipped.



## Colour Temperature

The Pro-7 generators are perfectly suited for critical analogue (film) and digital shoots.

The colour temperature is constant and reliable regardless of the energy output chosen with the dials A, B1 & B2. The colour temperature can be adjusted with the MASTER control [6]. Each 1/6 increment reduces the colour temperature by 50° Kelvin, which means a total down-scale of 400° Kelvin.

**PLEASE NOTE:** combining flash tubes and/or glass covers with different coatings can make even more distinctive colour temperature adjustments.

## Flash Duration

The flash duration can be shortened by reducing the energy output with the dials A and B. The shortest flash duration using a Pro-7 head and a Pro-7a/1200 generator at 1/16 energy is 1/12000 sec.

## Lamp Heads

The following are suited for Pro-7a 1200/2400:

ProHead [90.07.09]

Pro-7 ring [30.05.15]

ProTwin [90.07.19]

You can also use the Pro-7 head and the Pro-7 twin head.

## Warranty

All Profoto products are guaranteed for a period of two years with the exception of flash tubes, glass covers, modelling lamps and batteries. Products purchased for rental purposes are guaranteed for three months.

## Technical Data

	Pro-7a/1200		Pro-7a/2400	
Guide numbers in metres/feet at 100 ASA with a Magnum 50° Reflector	140/460		201/660	
<u>Flash Duration (t 0.5) at:</u>	Pro-7 head	Pro-7 twin	Pro-7 head	Pro-7 twin
4800 Ws	–	–	–	1/1600 sek
2400 Ws	–	1/2200 sek	1/1600 sek	1/2200
1200 Ws	1/2200 sek.	1/3200	1/2200	1/3200
600 Ws	1/3200	1/5300	1/3200	1/5300
300 Ws	1/5300	1/8000	1/5300	1/8000
150 Ws	1/8000	1/12000	1/8000	1/8000
75 Ws	1/12000	1/12000	1/8000	–
37,5 Ws	1/12000	–	–	–

PLEASE NOTE: With Pro-7 twin and two Pro-7a generators the recharging time is approx. twice as fast.

### Recharging Time at:

230V/50Hz	0.08 - 0.7 sek.	0.12 - 1.4 sek.
120V/60Hz	0.15 - 0.8	0.17 - 1.5
200V/50Hz	0.10 - 1.1	0.14 - 2.1
100V/50Hz	0.17 - 1.4	0.19 - 2.7

### Power Consumption (Turbo)

200 - 240V, 50/60Hz	10 A (fuse)/generator
100 - 120V, 50/60Hz	15 A (fuse)/generator

### Maximum Modelling Light

Maximum 500 W per head or totally 1500 W when three heads are used. Please note that the modelling light output automatically adjusts itself to the voltage in question (100 - 240V).

<u>Size &amp; weight, generators</u>	Pro-7a/1200	Pro-7a/2400
Width x length x height, cm/in	24 x 17 x 34 9 <sup>1</sup> / <sub>2</sub> x 6 <sup>3</sup> / <sub>4</sub> x 13 <sup>3</sup> / <sub>8</sub>	24 x 17 x 40 9 <sup>1</sup> / <sub>2</sub> x 6 <sup>3</sup> / <sub>4</sub> x 15 <sup>3</sup> / <sub>8</sub>
Weight, kg/lb.	9 / 20	12 / 26

### Size weight, lamp head

Length (incl. glass cover) x diameter, cm/in:	26 x 10 cm/10'' x 4''
Weight, kg/lb.	2.4 / 5

## Gas Generator

Most gas generators with an output of 3000 W or more can always power Profoto generators. Please note that you always need a ProGas unit between the gas generator and the Profoto generator in order not to damage these two units (only 230V). For more information please contact your local dealer.



# Pro-7s 1200/2400 Generator

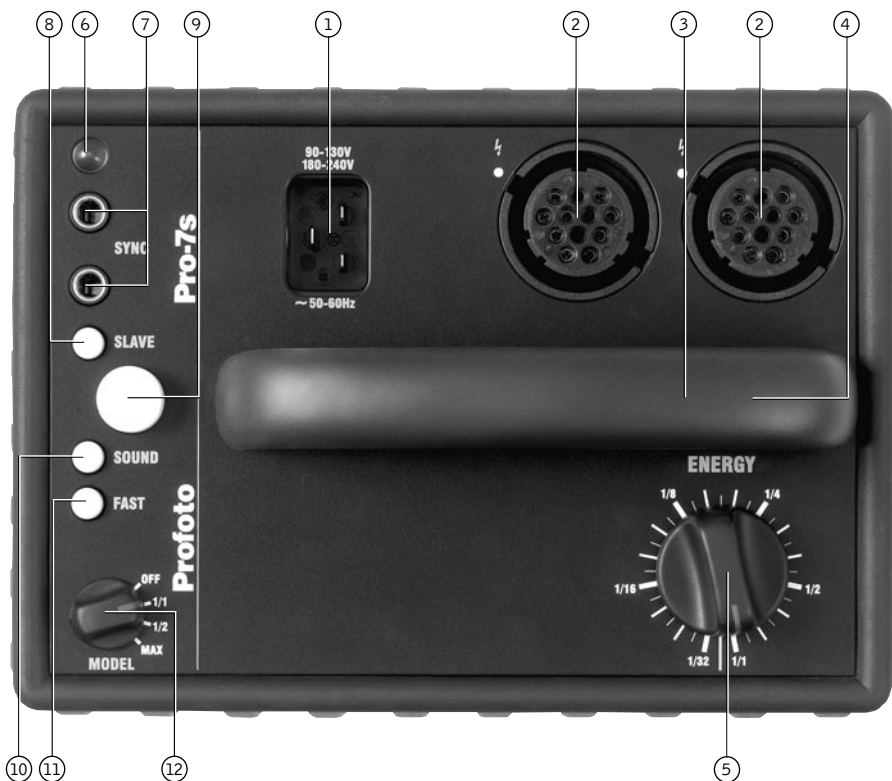
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Pro-7s 1200/2400

## Nomenclature Pro-7s Generator

1. Mains Connection
2. Lamp Head Sockets
3. Indicator for Mains (AC) Connection
4. Mains (AC) Power On/Off
5. Energy Dial
6. Photo/IR-cell
7. Sync Sockets
8. Photocell Button On/Off
9. Ready Lamp & Test Button
10. Audible Signal On/Off
11. Recharging Button Slow/Fast
12. Modelling Light Control



# Pro-7s 1200/2400 Generator

## Brief Instructions

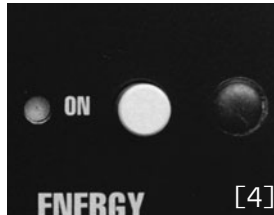
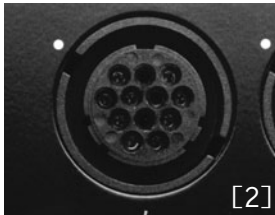
- Connect the generator to the mains supply with the enclosed power cable [1]. The green lamp [3] should now light up indicating acceptable AC current to the generator.
- Connect the lamp head(s) to the socket(s) [2].
- Use the control MOD. LIGHT [12] to choose modelling light mode.
- Press the button [4] ON to start charging. The white ready lamp [9] flashes the first time the generator is charged indicating that "dumping" of energy is needed.
- Choose the desired energy output with the ENERGY control [5]. For full energy choose 1/1.
- Press the test button [9] to dump the energy. The generator is now charged to the chosen energy and the white ready lamp/test button [9] will light up.
- Connect sync cord and/or flash meter to the sync sockets SYNC [7].
- Activate the photo/IR-cell [6] by pressing the button SLAVE [8].
- Activate the audible signal by pressing the button SOUND [10].
- For normal recharging speed, press the FAST [11] button.

### Mains Connection

Use the included power cable to connect to the mains power supply. The generator can be connected to all common mains voltages 90-240V and 50-60Hz. The generator automatically senses which voltage range is supplied. The green lamp below the handle indicates that the generator is receiving power from the mains. If not check the mains fuse for faults.

(Please also see "Gas Generator" on page 32).

**Warning:** Never use ordinary household extension cords to elongate the power cable.



### Connecting Lamp Heads

One or two lamp heads can be connected to the lamps head sockets [2]. When connecting the lamp head plug, align the dots on the plug with the white dot on the generator panel. Secure by turning the locking ring on the plug clockwise.

### Energy Control

The energy output is regulated with the control ENERGY [5]. The energy can be adjusted in 1/6 f:stop increments, from 1/1 down to 1/32 of the total energy (equivalent to six f:stops). At any change of the energy output the white ready lamp [9] will start flashing indicating that the energy needs to be dumped i. e. by pushing the test button [9]. The generator will thereafter be charged to the chosen energy output.

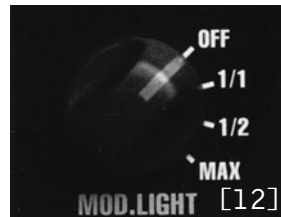
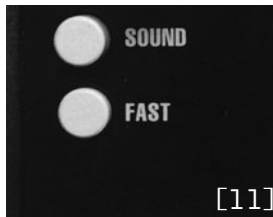
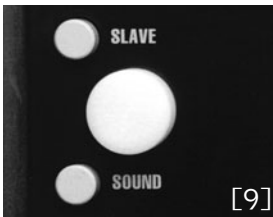
### Choice of Modelling Light

The control marked MOD.LIGHT [12] is used to choose the following alternatives:

- OFF Modelling light is turned off
- 1/1 Modelling light is receiving the designated proportional energy at full intensity determined by the position of the ENERGY control [5]
- 1/2 Modelling light\* is receiving the designated proportional energy at half the intensity determined by the position of the ENERGY control [5].
- MAX Modelling light is at maximum light output regardless of energy setting

When connecting two lamp heads or a ProTwin the modelling light proportionality is automatically adjusted.

\* The alternative 1/2 proportional modelling light is chosen in those cases when a Pro-7/1200 and a Pro-7/2400 are used together. To obtain the exact proportionality between the two generators the Pro-7/1200 modelling light has to be set at 1/2, as the flash energy is half of the Pro-7/2400.

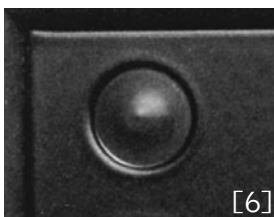


### Connecting Camera & Flash Meter

The two sync sockets [7] allow the camera and flash meter to be connected simultaneously. The 5 M sync cord can be extended without limitations with sync extension cords. Further sync connections can be made with the Profoto sync interconnection cable or by so called "hard wiring". A slave signal from the photocell can be forwarded through this cable to another flash generator.

### Recharging

The recharging starts when the ON/OFF button is pushed down. The first time the generator is used after being connected to the mains supply, it will charge to full energy regardless of the energy control position. This is a safety feature, which is indicated by the ready lamp [9] flashing. Dump the excess energy by firing a flash and the generator is now ready to be used with the energy selected. Slow or fast recharging can be chosen. When the button marked FAST [11] is released, the generator will recharge slowly. Choose this alternative when the generator is connected to a mains supply with weak fuses or if you are uncertain as to how well the mains supply is fused. Press down the FAST button [11] for normal recharging cycles; this is sufficient for most kinds of photography. The recharging time is approx. 0.8 sec for Pro-7s/1200 at full energy and 230V. When extremely short recharging times are required, for instance when operating a motor-drive camera, choose lower energy settings. The lowest energy setting offers the fastest recharging rate (0.08 sec).



## Photocell

The built-in photocell [6] will sense flash release as well as IR-signals from most IR-transmitters. The photocell is disabled when the button marked SLAVE [8] is released.

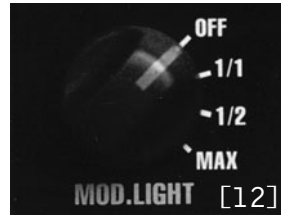
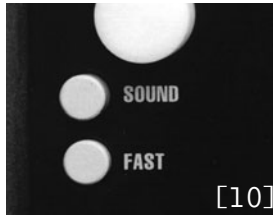
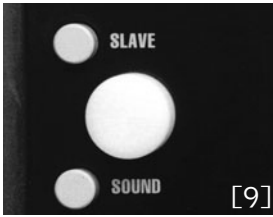
## Signals, Audible & Visible

The green indicator [3] below the handle will light up once the generator is connected to the mains outlet. The white ready lamp [9] will light up when the generator is fully charged. The button will not light up when the modelling light control [12] is in the OFF position. At the first initial charge, when the generator is connected to the mains supply, or when the energy output has been changed the white ready lamp [9] will flash. Dumping the energy is then required. At the next recharging the lamp will light up with a constant light. A short "beep" can be heard when the generator is fully recharged. Releasing the button marked SOUND [10] will turn off this signal. If a flash is fired before the generator is fully charged a long "beep" can be heard thus indicating an underexposed frame.

## Safety Functions

After having connected the generator to the mains outlet the first charge is always made to maximum energy for capacitor formation. This is important in order to avoid damage after leaving the generator unused for some time. If the generator for any reason whatsoever overheats, the recharging will stop completely. After a while, when the temperature has gone down sufficiently, the generator will start recharging at a normal pace again. This automatic protection system will only start up under extreme conditions, for instance when the air vents are blocked for some reason.

**PLEASE NOTE:** The air vents of the generator must never be blocked or covered in any way. Never store your flash equipment in a car on a hot and sunny day. Never use a generator that is placed inside a case or transport box. Avoid storing the generator close or below the freezing point, which can lead to loss of capacity (flash output) and risk of condensation when used in a warmer surrounding immediately. Do not expose any flash equipment to wet or humid environments or extreme electro-magnetic fields.



## Reliability Testing - The R-Test

The Profoto R-test guarantees that all products leaving the factory meet the very high standards required of professional equipment by professional photographers. The R-test is a rigorous performance test that the Profoto generators are put through - 720 full power flashes are released during one hour, which is equivalent to 20 rolls of 35 mm film.

After the test the equipment is examined to see that all parts have kept a normal operating temperature and are not malfunctioning in any way. All Profoto products are subjected to the R-test prior to being shipped.

## Colour Temperature

The Pro-7 generators are perfectly suited for critical analogue (film) and digital shoots. The colour temperature is constant with a variation of a maximum of  $\pm 75^{\circ}$  Kelvin.

**PLEASE NOTE:** combining flash tubes and/or glass covers with different coatings can make even more distinctive colour temperature adjustments.

## Flash Duration

Reducing the energy output can shorten the flash duration. The shortest flash duration using a Pro-7 head and a Pro-7s/1200 generator at 1/32 energy is 1/8000 sec. (For more details please see "Technical Data" on page 32). If a Pro-7 twin is used a flash duration of 1/12000 can be achieved with a Pro-7s/1200 unit.

## Lamp Heads

The following are suited for Pro-7s 1200/2400:

ProHead [90.07.09]

Pro-7 ring [30.05.15]

ProTwin [90.01.19]

You can also use the Pro-7 head and Pro-7 twin head.

## Warranty

All Profoto products are guaranteed for a period of two years with the exception of flash tubes, glass covers, modelling lamps and batteries. Products purchased for rental purposes are guaranteed for three months.

## Technical Data Pro-7s

	Pro-7s/1200		Pro-7s/2400	
Guide numbers in metres/feet at 100 ASA with a Magnum 50° Reflector	140		201	
<u>Flash Duration (t 0.5) at:</u>	Pro-7 head	Pro-7 twin	Pro-7 head	Pro-7 twin
4800 Ws	–	–	–	1/1600 sec.
2400 Ws	–	1/2200 sec.	1/1600 sec.	1/2200
1200 Ws	1/2200 sec.	1/3200	1/2200	1/3200
600 Ws	1/3200	1/5300	1/2700	1/4500
300 Ws	1/4500	1/6800	1/3200	1/5300
150 Ws	1/5300	1/8000	1/5300	1/8000
75 Ws	1/8000	1/12000	1/5300	1/8000
37,5 Ws	1/8000	1/12000	1/8000	–
18.75 Ws	1/12000	–	–	–

PLEASE NOTE: With Pro-7 twin and two Pro-7s generators the recharging time is approx. twice as fast.

### Recharging Time at:

230V/50Hz	0.08 - 0.8 sec.	0.12 - 1.5 sec
120V/60Hz	0.10 - 0.9	0.14 - 1.6
200V/50Hz	0.08 - 1.1	0.12 - 2.1
100V/50Hz	0.14 - 1.6	0.18 - 2.9

### Power Consumption (Turbo)

200 - 240V, 50/60Hz	10 A (fuse)/generator
100 - 120V, 50/60Hz	15 A (fuse)/generator

### Maximum Modelling Light

Maximum 500 W per head or totally 1500 W when three heads are used. Please note that the modelling light output automatically adjusts itself to the voltage in question (100 - 240V).

<u>Size &amp; weight, generators</u>	Pro-7s/1200	Pro-7s/2400
Width x length x height cm/in	24 x 17 x 32 9 <sup>1</sup> / <sub>2</sub> x 6 <sup>3</sup> / <sub>4</sub> x 12	24 x 17 x 40 9 <sup>1</sup> / <sub>2</sub> x 6 <sup>3</sup> / <sub>4</sub> x 15 <sup>3</sup> / <sub>4</sub>
Weight, kg/lb	9 / 20	12 / 26

### Size weight, lamp head

Length (incl. glass cover) x diameter, cm/in	26 x 10 cm 10" x 4"
Weight, kg/lb	2.4 / 5

## Gas Generator

Most gas generators with an output of 3000 W or more can always power Profoto generators. Please note that you always need a ProGas unit between the gas generator and the Profoto generator in order not to damage these two units (only 230V). For more information please contact your local dealer.



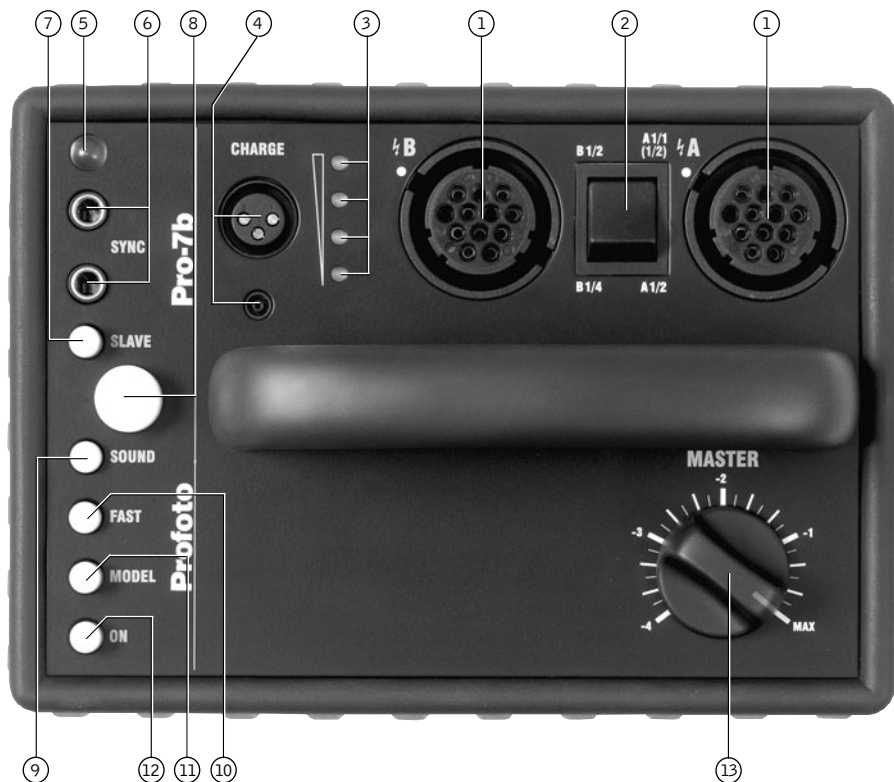
# Pro-7b Generator

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## Nomenclature Pro-7b Generator

1. Lamp Head Sockets
2. SYM/ASYM Switch
3. Indicator for Battery Charge
4. Charge Outlets
5. Photo/IR-cell
6. Sync Sockets
7. Photocell Button On/Off
8. Ready Lamp & Test Button
9. Audible Signal On/Off
10. Recharging Button Slow/Fast
11. Modelling Light Control
12. On/Off Switch
13. Energy Control



# Pro-7b Generator

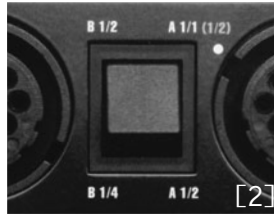
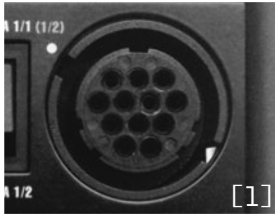
## Brief Instructions

- Connect the desired number of lamp heads to sockets A & B.
- Start charging by pushing the button ON [12]. The ready lamp [8] will light up when the generator is fully charged.
- The generator can be activated from OFF position by means of a sync signal from a camera.
- Choose the desired energy distribution with the control MASTER [13] and the SYM/ASYM switch [2]. The generator will automatically dump if the energy level is lowered.
- Connect sync cord and/or flash meter to the sync sockets SYNC [6]
- Activate the photocell [5] by pushing the button SLAVE [7].
- Activate the audible signal by pushing the button SOUND [9].
- Pushing the button MOD.LIGHT [11] turns on the modelling light, which will stay on for 20 seconds. To have the modelling light stay on for a longer period of time push the button two or three consecutive times, which will give 40 and 60 seconds respectively.
- Choose fast recharging by pushing the button FAST [10].
- The charge indicator [3] shows the battery charge level.
- Turn off the generator with the button ON [12]. The generator automatically turns off after 30 minutes when not in use.

### Battery and battery charging

The battery can be charged through the mains outlet by using a special charger or charged directly from the car cigarette lighter when driving. The charging time this latter way is only 3.5 hours. The generator can be used during charging. The generator cannot be used without a battery in place. The battery will not deteriorate from being charged frequently or from being charged when not fully discharged. Neither does it need to be fully charged before using it. The actual battery life is in fact elongated when fully recharged. The battery indicator shows the charge level and is up-dated when the generator is turned on or when firing a flash. The battery can be charged when dismantled. The environment influences the capacity of both the generator and the battery, for example extreme cold decreases the battery charging capacity.

- 10.02.18 Multivoltage Charger incl. adapters, 90-130V/190-250V, 50-60Hz, 2.0A, 5 hour charging
- 10.02.19 Charger (12/24V) for Car Cigarette Lighter, 3.5A, 2.5 hour charging
- 10.02.21 Battery
- 10.02.23 Cassette for Battery
- 90.07.26 Battery incl. Cassette
- 90.07.28 universal power adapter for 2.5 hour charging, The adapter accepts a wide range of input voltages: 12-24V or 90-240V.



## Changing Battery

By putting the two handles at the bottom together the battery cassette is released and the battery can easily be pulled out. A new battery is pushed all the way into the generator and is locked by directing the handles away from each other. When changing the battery it must be mounted in a battery cassette by an authorised service station. If the battery is not purchased at Profoto a Hitachi HV 12 -12 unit must be used.



## Connecting Lamp Heads

One or two lamp heads can be connected to the lamp head sockets A & B [1]. When connecting the lamp head plug, align the dots on the plug with the white dot on the generator panel. Secure by turning the locking ring on the plug clockwise.



## Energy Control

The energy output is regulated over seven f:stops. The energy can partly be adjusted with the control MASTER [13] in 1/6 f:stop increments, from 1/1 down to 1/16 of the total energy (equivalent to five f:stops) partly with the SYM/ASYM switch [2] through one or two lamp heads.



One lamp head: The total energy chosen is obtained if the lamp head is connected to A and the SYM/ASYM switch is at A 1/1(1/2), B 1/2. The lamp head can be connected to socket A or B. If the lamp head is connected to A the total energy is obtained chosen with the control MASTER [13]. If the lamp





head is connected to B half the energy is obtained if the SYM/ASYM switch is in position A 1/2, B 1/2. If the switch is in the position A 1/2, B 1/4 a quarter of the chosen energy is obtained.

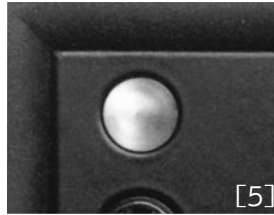
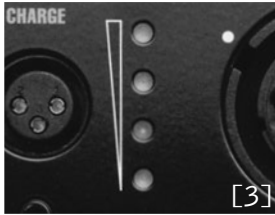
Two lamp heads: The energy chosen with the MASTER [13] control can either be distributed evenly through the two lamp heads (the SYM/ASYM switch in the position A1/1 (1/2), B 1/2) or twice as much energy (equivalent to one f:stop) through A as B (the SYM/ASYM switch in the position A 1/2, B 1/4). At any change of energy with the control MASTER [13] the ready lamp [8] is put out. When the light is out, this is an indication that autodumping or recharging is in progress.

### Choice of Modelling Light

Pushing the button MOD.LIGHT [11] turns on the modelling light. To save the battery the modelling light is automatically turned off after 20 seconds. To have the modelling light stay on for a longer period of time push the button two or three consecutive times, which will give 40 and 60 seconds respectively. For every period of 20 seconds when the modelling light is turned on the battery capacity decreases by the equivalent of two flashes at full energy. The maximum modelling light is 100 W even if a ProHead with a 250 W halogen lamp is used. A ProHead or older heads - Pro-7, PB or PF - can be used. The modelling light is automatically dimmed down to 100 W regardless of the nominal effect of the modelling light. The efficiency (output) is higher when using a 100W lamp. We therefore recommend to always use a 100W lamp also in the ProHead. The modelling light is constant and does not vary with the energy chosen.

### Connecting Camera & Flash Meter

The two sync sockets [6] allow the camera and flash meter to be connected simultaneously. The 5 M sync cord can be extended without limitations with sync extension cords. Further sync connections can be made with the Profoto sync interconnection cable or by so called "hard wiring". A slave signal from the photocell can be forwarded through this cable to another flash generator.



## Recharging

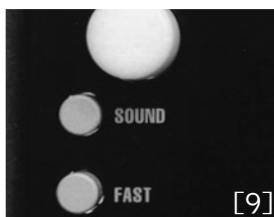
The recharging starts when the ON/OFF switch [12] is pushed down. Slow or fast recharging can be chosen. When the button FAST [10] is released, the generator will recharge slowly. Push the FAST button [10] for normal recharging cycles; this is sufficient for most kinds of photography. The recharging time is approx. 2.8 sec at full energy. When extremely short recharging times are required, for instance when operating a motor-drive camera, choose lower energy settings. The lowest energy setting offers the fastest recharging rate (0.18 sec). The generator is turned off by pressing the button ON [12] for a minimum of three seconds. The generator automatically turns off when the controls MASTER [13], MOD. LIGHT [11] and the sync outlets have not been in use for 30 minutes.

## Photocell

The built-in photocell [5] will sense flash release as well as IR-signals from most IR-transmitters. The photocell is disabled when the button marked SLAVE [7] is released. The photocell can also, via cable, trigger off an additional generator.

## Signals, Audible & Visible

One of the indicator lights for the battery charge [3] will light up once the generator is turned on. The charge indicator [3] is up-dated when the generator is turned on or when a flash is fired. When all lights light up the generator has no charging value - fire a flash. When the energy output is changed the white ready lamp [8] turns off thus indicating that dumping of the energy is in progress. A short "beep" can be heard when the generator is fully recharged. Releasing the button SOUND [9] can turn off this signal. The generator can be restarted directly from a camera, if a sync cord is connected, by shooting a frame. If a flash is fired before the generator is fully charged a long "beep" can be heard thus indicating an underexposed frame. A number of short consecutive "beeps" - 16 - can be heard before the generator automatically turns itself off.



## Safety Functions

If the generator for any reason whatsoever overheats, the recharging will completely stop. After a while, when the temperature has gone down sufficiently, the generator will start recharging at a normal pace again. No recharging can take place when the red light of the battery indicator is on. This is a safety feature protecting the battery from harmfully low discharging. There are three fuses on the battery cassette. One is for the charging circuits and two for the battery. Furthermore the contacts are short-circuit proof.

**PLEASE NOTE:** Never store your flash equipment in a car on a hot and sunny day. Avoid storing the generator close or below the freezing point, which can lead to loss of capacity (flash output) and risk of condensation when used in a warmer surrounding immediately. Do not expose any flash equipment to wet or humid environments or extreme electro-magnetic fields.

## Reliability Testing - The R-Test

The Profoto R-test guarantees that all products leaving the factory meet the very high standards required of professional equipment by professional photographers. The R-test is a rigorous performance test that Profoto generators are put through - 360 full power flashes are released during one hour, which is equivalent to 10 rolls of 35 mm film.

After the test the equipment is examined to see that all parts have kept a normal operating temperature and are not malfunctioning in any way. All Profoto products are subjected to the R-test prior to being shipped.





### **Colour Temperature**

The Pro-7 generators are perfectly suited for critical analogue (film) and digital shoots. The colour temperature is constant with a variation of a maximum of  $\pm 150^\circ$  Kelvin.

**PLEASE NOTE:** combining flash tubes and/or glass covers with different coatings can make even more distinctive colour temperature adjustments.

### **Flash Duration**

Reducing the energy output with the control MASTER [13] shortens the flash duration. The shortest flash duration using a Pro-7 head is 1/3000 sec.

(For more details please see "Technical Data" on page 41).

### **Lamp Heads**

The ProHead, ProTwin, Pro-7 head, the Pro-7 twin, the Pro-7 ring or the exclusively designed Pro-7b head can be used. With the ProTwin and two Pro-7b generators 2400 Ws can be obtained.

### **Warranty**

All Profoto products are guaranteed for a period of two years with the exception of flash tubes, glass covers modelling lamps, and batteries. Products purchased for rental purposes are guaranteed for three months.



## Technical Data Pro-7b

Battery 250 flashes at full energy per battery charge  
(180 flashes at the fastest recharging)

Guide numbers in metres/feet at 100 ASA

with Magnum 50° Reflector 140/460

<u>Flash Duration (t 0.5) at:</u>	Pro-7 head or Pro-7b head	Pro-7 twin
2400 Ws	–	1/1400 sec.
1200 Ws	1/1400 sec.	1/2000
600 Ws	1/2000	1/3000
300 Ws	1/3000	1/3000
150 Ws	1/3000	1/3000
75 Ws	1/3000	1/3000
37,5 Ws	1/3000	1/3000
18,75 Ws	1/3000	–

PLEASE NOTE: With Pro-7 twin and two Pro-7b generators the recharging time is approx. twice as fast.

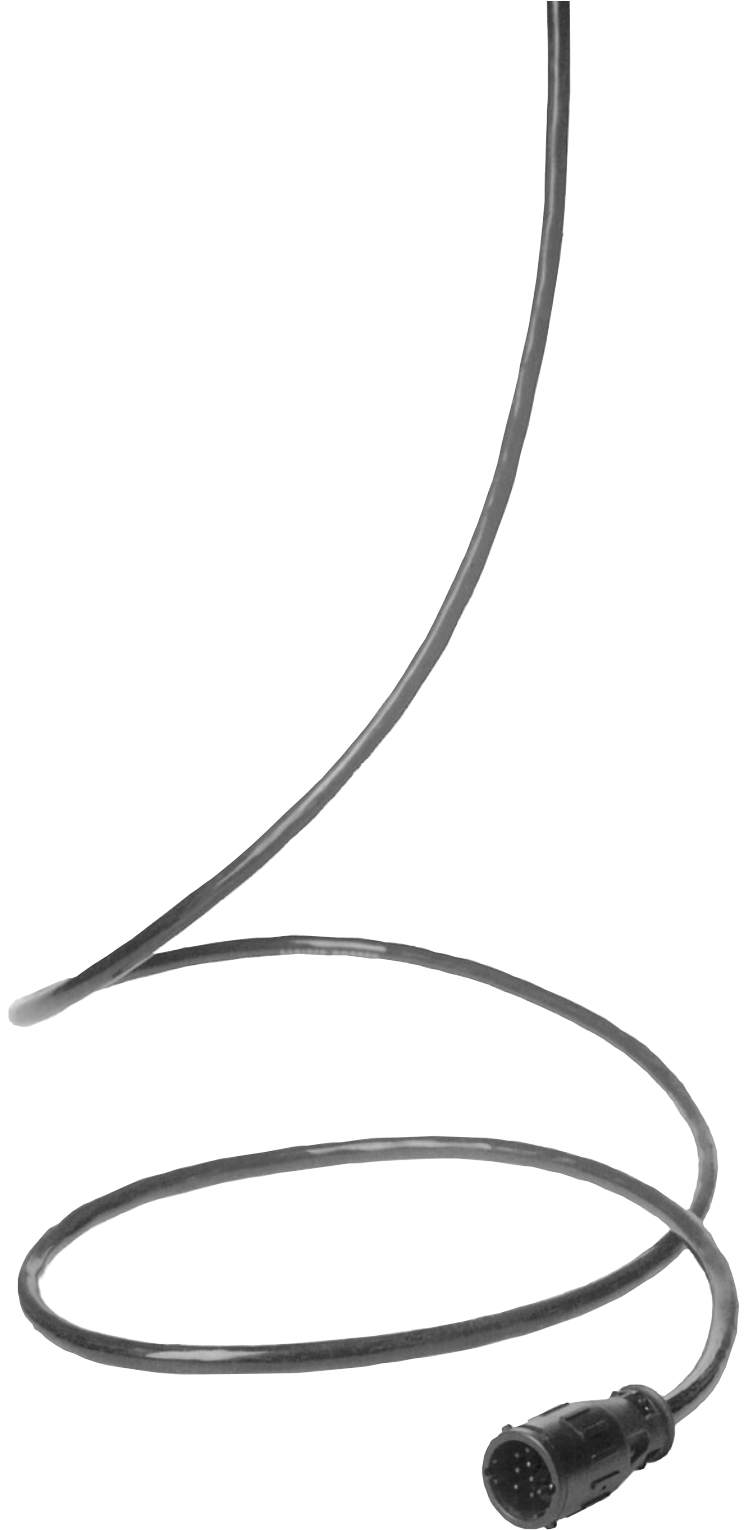
### Recharging Time at:

Fast	0.09-2.8 sec
Slow	0.25-5.6

Modelling Light: 100 W

### Size & weight

Width x length x height cm/in	24 x 17 x 23	$9\frac{1}{2} \times 6\frac{3}{4} \times 9$
Weight, kg/lb.	12 / 26	





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Product codes, descriptions and included components may vary from market to market around the world.  
Please consult your local dealer or distributor for specific information.

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