



# ProPack Manual

## WARNING

Profoto generators and lamp heads are part of a complete professional lighting system. Please read the instruction manual carefully before use.

Flashtubes and modelling lamps emit considerable heat and may cause injury if not handled properly.

*NOTE! Always unplug the lamp head from the flash generator before charging flashtube or modelling lamp.*

Do not touch hot metal parts

Do not obstruct ventilation

Do not connect a lamp head with the protective cap in place

When using the head do not place filters, diffusing materials, or any other obstructions directly onto the glass cover, flashtube or modelling light

Never position the light extremely close to people

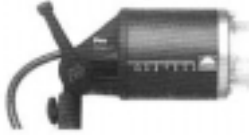
When mounting umbrella do not touch flashtube or modelling lamp with the metal shaft - there is a risk of high voltage

*NOTE Under no circumstance is any part of the equipment to be opened. The equipment is not user-serviceable and there is dangerous high voltage inside.!*

*service may only be performed  
by an authorised repair station!*

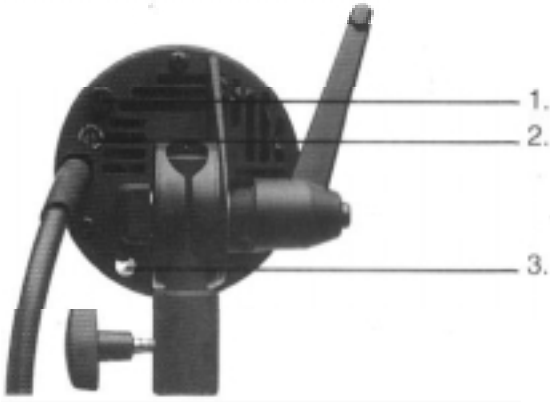
## CONTENTS

Nomenclature..	4
Condensed manual..	6
1. Mains (AC) connection .....	6
2. Connecting lamp heads..	7
3. Energy control..	7
4. Choice of modelling light .....	7
5. Synchro connection .....	8
6. Charging .....	8
7. Photocell .....	9
8. Visible and audible signals..	9
9. Safety functions .....	9
10. R-test..	10
11. Colour temperature..	10
12. Flash duration .....	11
13. PB Head .....	11
14. Warranty..	11
15. Technical data..	12



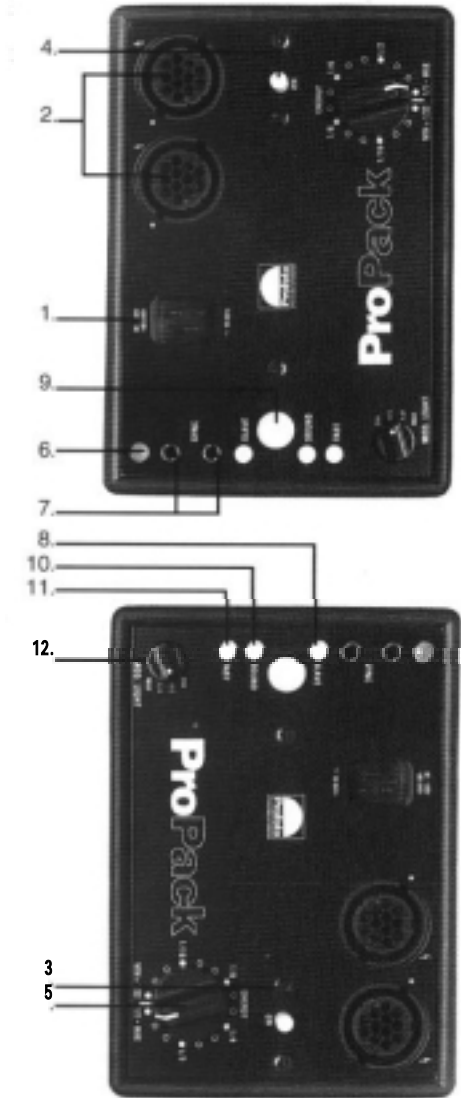
### NOMENCLATURE

1. Modelling light on/off
2. Fan intermittent/continuous
3. Umbrella holder



### NOMENCLATURE

1. Mains (AC) connection
2. Lamp head sockets
3. Indicator for mains connection
4. Charging on/Stand-by'
5. Energy output control
6. Photo/IR-cell
7. Sync sockets
8. Photo/IR-cell (slave) on/off
9. Ready lamp/Test button
10. Audible signal on/off
11. Recharging speed slow/fast
12. Modelling light control



## CONDENSEDMANUAL

- Connect the generator to the mains supply with the included 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 lamp head socket(s) (2).
- Use the control marked MOD. LIGHT (12) to choose modelling light mode. Note that when the control is set at OFF, the ready lamp (9) is extinguished.
- Press the button marked ON (4) to start the charging. The white ready lamp (9) will blink after the first initial charge. This indicates a necessity to “dump” the energy.
- Choose the desired energy output with the ENERGY dial (5). For full energy choose MAX.
- Press the test button (9) to “dump” the energy. The generator is now charged to the chosen energy and the white ready lamp (9) will light up.
- Connect synchro cord and/or flash meter to the sync socket(s) marked SYNC (7).
- Activate the photo/IR-cell (6) by pressing the SLAVE button (8).
- Activate the audible ready signal by pressing the SOUND button (10).
- For normal recharging speed, press down the FAST button (11).



### 1. MAINS (AC) CONNECTION

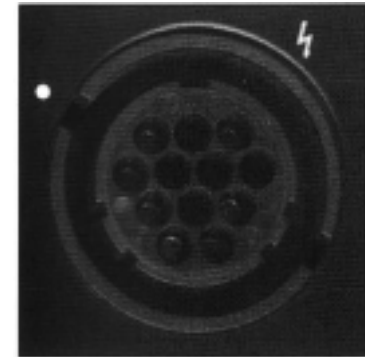
Use the included power cable for connection to the mains power supply. The ProPack can be connected to all common mains voltage; 90-130V, 180-240V and 50-60Hz. The generator automatically senses the voltage supplied.

The green lamp (3) underneath the handle indicates that the generator is receiving power from the mains. If the lamp fails to light up, check the mains fuse for faults.

**WARNING:** Never use ordinary household extension cords to elongate the power cable. They may overheat. Contact your Profoto distributor for proper equipment.

### 2. CONNECTING LAMP HEADS

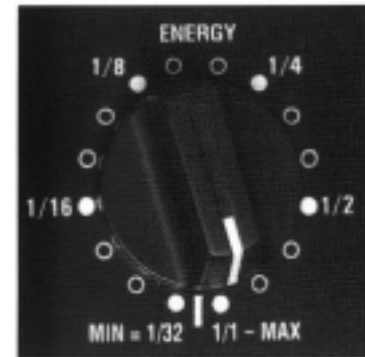
One or two lamp heads can be connected to the lamp head sockets (2). When connecting the lamp head plug, align the dots on the plug with the white dot on the generator panel. Secure by turning the locking ring on the plug clockwise.



### 3. ENERGY CONTROL

The generator's energy output is regulated with the control marked ENERGY (5). The energy can be adjusted in one third (1/3) f:stop increments, from full (MAX) down to 1/32 of the total energy (equivalent to 5 f/stops).

Every time the energy output has changed, the white ready lamp (9) blinks. It indicates the necessity to “dump” the energy by pushing the test button (9). The generator will thereafter be charged to the chosen energy output.



### 4. CHOICE OF MODELLING LIGHT

The control marked MOD.LIGHT (12) is used to choose the following alternatives:

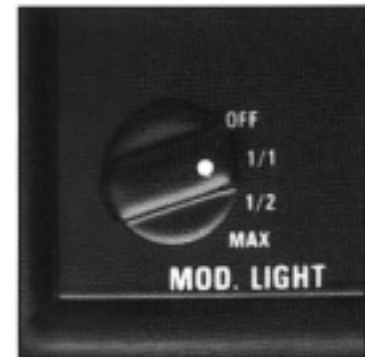
OFF modelling light off. NOTE: The ready lamp (9) will also be turned off.

1/1 modelling light is receiving the designated proportional energy at full intensity determined by the positions of the ENERGY dial.

1/2 modelling light is receiving the designated proportional energy at one-half intensity determined by the positions of the ENERGY dial.

MAX modelling light is at maximum light output, regardless of energy setting.

Half proportional modelling light (1/2) is chosen when a ProPack and for ex. a Pro-6/2400 are used together. To keep the modelling light





proportionally aligned between the two generators, the ProPack is set to 1/2 modelling light position as the flash energy is half of the Pro-6/2400.

When connecting two lamp heads, or a Pro Twin Head, the modelling light proportionality is automatically adjusted.

## 5. SYNCHROCONNECTION

The two sync sockets (7) allow the camera and flash meter to be connected simultaneously. The 5m synchro cord can be extended without limitations with synchro extension cords.

Further sync connections can be made with Profoto's synchro interconnection cable. A slave signal from the photocell can be forwarded through this cable to another flash generator.

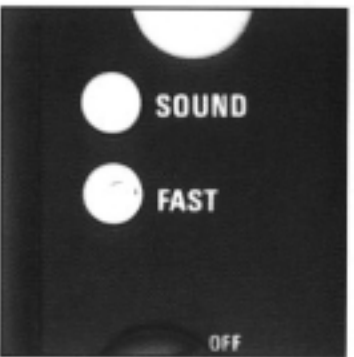


## 6. CHARGING

The charging starts when the ON button (4) is pressed down. Slow or fast recharge 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. On a 230V mains supply the ProPack will recharge at approx. 1.1 sec.

When extremely short recharging times are necessary, for ex. with motor-drive camera, chose lower energy settings. The lowest energy setting offers the quickest recycling rate.



## 7. PHOTOCELL

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

## 8. VISIBLE AND AUDIBLE SIGNALS

The green indicator (3) underneath the handle will light up, when the generator is connected and receiving power from the mains supply.

The white ready lamp (9) will light up when the generator is fully (re)charged. The button will not light up when the modelling light control (12) is turned OFF.

After the first initial charge, when connected to the mains supply, or when the energy output has been changed the white ready lamp (9) will blink. This indicates that the energy has to be "dumped". After the following recharge the white ready lamp (9) will light constantly.

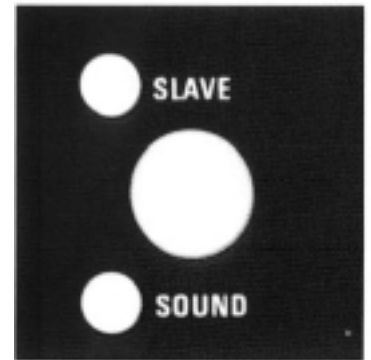
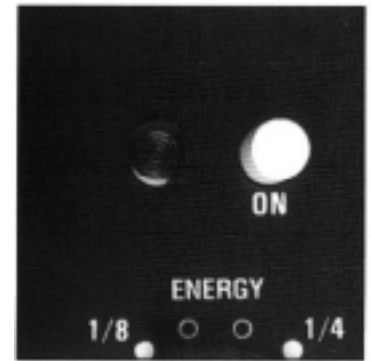
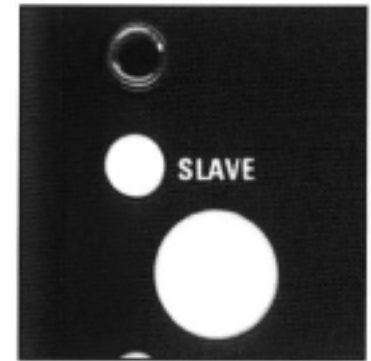
When the generator is fully (re)charged a short "beep" will be heard. This signal can be turned off by releasing the button marked SOUND (10).

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

## 9. SAFETY FUNCTIONS

The first charge, after connecting the unit to mains supply, 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 overheats for any reason a protective system will automatically start up



and the recharging will stop. After a while, when the temperature has decreased sufficiently, the generator will start recharging again at a normal pace.

This automatic protection will only start up under extreme conditions, for ex. when the air vents are blocked for some reason.

**WARNING!** The air vents on the generator must never be blocked or covered in any way.

## 10. R-TEST

The Profoto R-test guarantees that all products leaving the factory meet the very high standards required of professional equipment for professional photographers. The R-test is a rigorous performance test that Profoto's generators are put through - 720 full power flashes are released during one hour, equivalent to 20 rolls of 36-frame 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 of Profoto's newly developed products are subjected to the R-test before being released for production.

## 11. COLOUR TEMPERATURE

The colour temperature is constant with a variation of max of 75°K.

**NOTE!** Distinctive colour temperature adjustments can be obtained by combining flashtubes and/or glass covers with different coatings.

## 12. FLASH DURATION

The flash duration can be shortened by reducing the energy output. The shortest flash duration using a ProPack on 1/32 energy output and two PB Heads, is 1/4400 sec. (see TECHNICAL DATA).

## 13. PBHEAD

The on/off turn-switch (1) at the back of the lamp head controls the modelling light.

The fan inside the lamp head is thermostat-controlled. For continuous cooling of the lamp head, turn the blue switch (2).

**WARNING!** ALWAYS UNPLUG THE LAMP HEAD CABLE FROM THE GENERATOR BEFORE CHANGING MODELLING LAMP, FLASHTUBE OR GLASS COVER.

The modelling lamp is mounted in a "mini-can" screw base. The flashtube has two metal pins for insertion into the lamp head. When removing a flashtube, pull it straight out of the sockets. When inserting a flashtube, check that the trigger-wire connection clasps properly around the flashtube.

When mounting a glass cover, check that both locking clips are secured through the holes of the glass cover.

## 14. WARRANTY

All Profoto's products are guaranteed for a period of 2 years, with the exception of flashtubes and modelling lamps. Products purchased for rental purposes are guaranteed for 3 months.



## 15. TECHNICAL DATA

### Guide no. in meters at 100 ASA

Magnum 50" reflector

### ProPack

140

### Flash duration (t0,5)

1/1	1200 Ws	1 /1300 sec.
1/2	600 Ws	1 /1700 sec.
1/4	300 ws	1/2400 sec.
1/8	150 ws	1/3000 sec.
1/16	75 ws	1/4200 sec.
1/32	37.5 Ws	1/4200 sec.
		(1/4400 sec. two lamp heads)

### Recycling speed

230V / 50Hz	0.09 - 1.1 sec.
200V / 50Hz	0.11 - 1.5 sec.
100V / 50Hz	0.18 - 1.9 sec.
200V / 60Hz	0.09 - 1.2 sec.
117V/60Hz	0.11 - 1.2 sec.

### Fuses, car battery and petrol-electric generator set

200 - 240V, 50/60Hz	10A
100 - 120V, 50/60Hz	15A

The ProPack can be powered by a car battery via the converter *ProCar24*.

The unit can also be powered by a petrol-electric generator set if:

1. The true output is minimum 3000W per connected ProPack.
2. 230V UNITS ONLY: One *ProGas* is connected between each flash unit and the 230V generator.

Please contact your Profoto dealer for more information.

### Max modelling light

Max 500W per lamp head, or total 1000W with two heads connected

### Size and weight, generator

### ProPack

Height x length x width      31 x 24 x 17cm,      incl. handle  
(12.2 x 9.4 x 6.7in)

Weight      9kg (20lb)

### Size, lamp head

### Pro Head

Length (w glass cover) x diameter      28 x 10cm  
(11 x 3.9in)

## Notes