

# *Digital 3000 AS*

For DIGITAL PHOTOGRAPHY

POWER

UNIVERSALITY

TOTAL ASYMMETRY



## Instructions for use

110V and 230V, Version

English



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P.S: Technical data subject to change.

The listed values are guide values which may vary due to tolerances in components used.

The Elinchrom Digital generator is manufactured by Elinca S.A. CH - 1020 Renens/Switzerland

Dear Photographer,

Thank you for buying your «Digital 3000 AS» flash generator.

All Elinchrom products are manufactured using the most advanced technology. Carefully selected component are used to ensure the highest quality and the equipment is submitted to many controls both during and after manufacture.

We trust that it will give you many years of reliable service.

All flash units are manufactured for the studio and location use of professional photographers.

Only by observance of the information given, can you secure your warranty, prevent possible damage and increase the life of this equipment.

#### SAFETY NOTICE

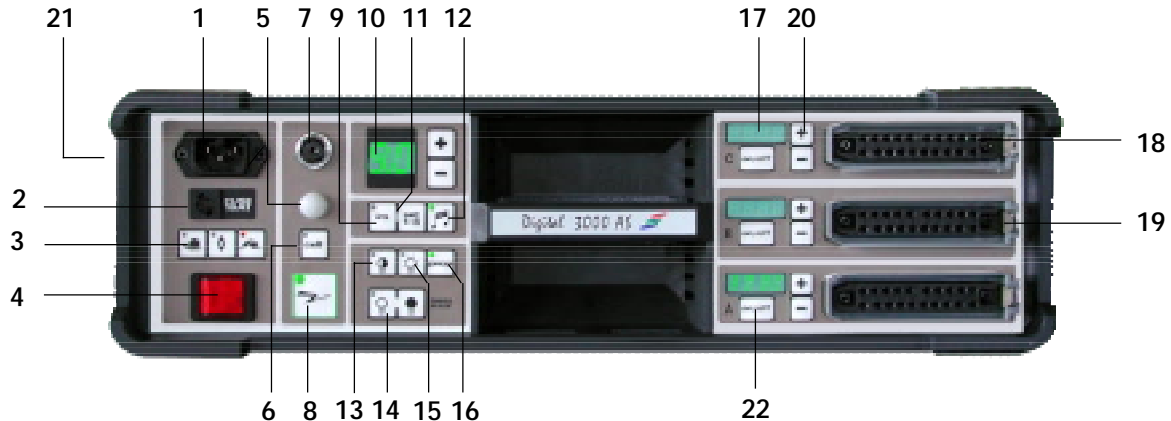
According to safety regulations, we draw your attention to the fact that these electronic flash units are not designed for use outdoors, in damp or dusty conditions and should not be used after being exposed to sudden temperature changes causing condensation. They must always be connected to an earthed (grounded) mains supply.

On no account should any objet be inserted into the ventilation holes.

The units may retain an internal charge for a considerable time even though disconnected from the power supply.



FLASH SYSTEMS STORE ELECTRICAL ENERGY IN CAPACITORS BY APPLYING HIGH VOLTAGE.  
FOR YOUR SAFETY, NEVER OPEN YOUR FLASHES.  
ONLY AN AUTHORISED SERVICE ENGINEER SHOULD OPEN OR ATTEMPT TO REPAIR THE UNITS.  
FOR REPAIRS, BRING THEM TO YOUR ELINCHROM AGENT.



## CONTROL PANEL

1. Mains inlet power socket
2. Mains fuse (16 AT, slow blow)
3. Charge speed selectors
  -  - slow charge
  -  - normal charge
  -  - fast charge
4. Mains switch
5. Photocell and IR-Receiver
6. Photocell on/off
7. Sync.-socket with security lock
8. Open flash with charge indicator
9. IR-Remote On/off
10. LED indication of total power
11. Generator selector IR (1-8 packs)
12. Multi-purpose acoustic signal
13. Half/full power for modelling lamps
14. Modelling lamps on/off
15. Modelling lamp dimmer/charge signal
16. Proportional modelling light
17. Power output indication in Ws/joules
18. Lamphead sockets
19. Security catches
20. Lamphead power modulators
21. Socket accessories
22. Lamphead on/off

FOR YOUR SAFETY, NEVER OPEN YOUR POWER PACKS OR YOUR LAMPHEADS.  
FOR REPAIRS, BRING THEM TO YOUR ELINCHROM AGENT.

# Operating instructions

## 1) Mains connection

The unit is manufactured to run on 200-240 V, 50/60 Hz. Before connecting them for the first time, make sure that your mains supply and the rating set on the equipment (electrical specification plate) are compatible.

- 2) Check that the mains switch (4) is OFF
- 3) Insert mains cable to the MAINS INLET (1) and connect to a FULLY EARTHED OUTLET
- 4) Using the mains switch (4) and switch the unit ON (switch illuminated)
- 5) Connect lampheads ensuring that lampheads switches (22) are OFF, i.e. display NOT illuminated
- 6) Select charging rate (3) "normal"
- 7) Select modelling lamp setting (16)
- 8) Connect the synchro cord on the socket (7)
- 9) Check that photocell (6) is OFF (not illuminated)
- 10) Switch on the lampheads : the touch (22) switches individually the flash circuits and modelling lamps
- 11) Select the power with the touch (+ or -).
- 12) The green open flash button (8) will light up, indicating that the unit is ready for operation.

According to the safety regulation: we draw your attention to the fact that this equipment should be used only in a dry environment; it must be protected from dripping water and from extremely dusty conditions. The unit must ALWAYS be plugged into an EARTHED electrical socket.

## TECHNICAL DATA :

This power pack Digital 3000 AS ( 3000Ws) offers three asymmetrical power head outlets.  
The power levels are indicated in Ws by bright LED display. These displays may be individually varied in 1/10th f-stop to any one of 57 settings on each lamphed (with three lampheds).  
The variation is continuous on 6.6 f-stops, (diaphragm variation 22.7 to 180.3).




## POWER REQUIREMENTS :

For version 110/120 V : Mains voltage: 110-140 Vac 50/60 Hz

For version 220/230 V : Mains voltage: 210-240 Vac/50 Hz

Dimensions: 49 x 14 x 32 cms

Weight: 11.65 kg

| CHARGE SPEED          |  |  |  |
|-----------------------|---|---|--|
| on mains 230 V- 50 Hz | 1.8 - 10 s  | 0.8 - 4.5 s   | 0.7 - 3.5 s  |
| on mains 115 V- 60 Hz | 2 - 11s   | 0.9 - 5.5s  | 0.8 - 4.5 s  |

## RELATION OF POWER RANGE BETWEEN THE OUTLETS

Guide aperture is based on the "Digital S" head and the standard reflector, distance 1 m/3.3 ft and film ISO 100/21 DIN.

| Display | Ws   | f-stop  | Power                |
|---------|------|---------|----------------------|
| 9       | 3000 | (180.3) | 1/1                  |
| 8       | 1500 | (128.3) | 1/2                  |
| 7       | 750  | (90.3)  | 1/4                  |
| 6       | 375  | (64.3)  | 1/8                  |
| 5       | 188  | (45.3)  | 1/16                 |
| 5**     | 95   | (32.3)  | 1/32 with 2 lampheds |
| 5***    | 62   | (22.7)  | 1/48 with 3 lampheds |

## 1. MAINS SUPPLY

While the MAINS SWITCH (4) is switched off firmly push in the plug of the original ELINCHROM mains cord into the socket (1).



## 2. FUSE

Standard type 5 x 20 mm, 16 AT (tempered). Before exchanging a blown fuse, switch off the unit and remove mains cable. Depress and turn the fuse holder anti-clockwise 1/8th and remove it.

If the new fuse blows immediately upon reconnection return the pack to an ELINCHROM service centre for a check-up. (N.B. Check correct value of the fuse : 16 AT).



### N.B. SECURITY FUSE

This unit is protected by an internal security device. Should the unit not work properly, for example because of a defective power component, the internal security fuse of 16AF (fast) would instantly get destroyed, which avoids any recharging. From then on, the power pack requires a check up by a technical Elinchrom service.

## 3. MAINS SWITCH

The button lights up when the pack is switched on. Switch off before removing the mains cord.

Note : the absence of charge, despite the switch being illuminated, indicates a fault.



## 4. CHARGE SPEED SELECTOR

Select the required charging speed with the selector (3).



**FAST** : is the standard position recycling, for use in the professional studio.  
(Position for the digital "one shot")

230 V = 16 A      115 V = 25 A



**NORMAL** : standard recycling recommended for use in the studio with line 16 A.  
(Position for the digital "multi-shot")

230 V = 12 A      115 V = 20 A



**SLOW** : position is recommended when the mains capacity is too limited for the use with the standard charge. (for the digital "multi-shot")

230 V = 8 A      115 V = 15 A



charge

N.B. For even less load on the power supply line use lamps automatically extinguish when the generator and jointly. The modelling is charging but illuminate when the charge cycle ends.



## 5. INITIAL CHARGE

If the generator has been recently used and the capacitors do not require «reforming», the generator will charge at the speed setting indicated, i.e. fast, normal or slow.

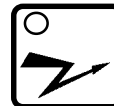
If the generator has been recently used , to reform the capacitors it will charge slowly. If the desired speed setting is fast or normal, the appropriate indicator will glow, but the slow charge indicator will blink to show that for this one charge sequence it has automatically taken control.



## 6. OPEN FLASH «TEST»

Having pressed this button release a flash, the green led «READY» light will appear again once the unit is recharged. If the green light does not appear the charge system could be defective. Please contact and send to an authorized Elinchrom service .

N.B. Situation 2, as above is the only time when the open flash will function while the indicator blinks. At other times, the generator is not ready (still charging or fed with incorrect requests) and will therefore not function.



### NOTE :

The "Digital" unit have an integrated discharge system, protected by a thermic switch.

In order to restrict the heating of the unit, we suggest to release a flash with the green button (8) "READY" after each strong reduction of power (more than 2f-stop).

This allows to release the excess of energy in the flash tube. You will gain time and extend the life span of your power packs.

## 7. AUDIBLE RECHARGE SIGNAL

When the indicator of the touch (12) is illuminated and will sound whenever a command has been accepted by the generator (useful when using the IR handset).

There is an audible signal after each recharge. It indicates that the generator is ready.

Continuous signalling indicates a false request or malfunction.

Please check generator and lamphead connections.





## 8. TOTAL POWER

This display indicates the total power released through the lamphoods.

The variation is a single step or if the touch is held it will run continuously.

The first number indicates changes by full f-stop, the second number by 1/10 f-stop.

When the total power is increased each individual lamphood increases proportionately.

The ratio never changes and the power in any one lamphood is limited only by the total power in the generator.

When this power is reduced your chosen asymmetry remains, but is always variable at your discretion.



## 9. INDIVIDUAL POWER OUTPUT

This facility gives subtlety and independence of power control unobtainable in any other way.

The Ws/Joules readout enables you at a glance to evaluate the relative power of each lamphood which you may change at any time. It varies progressively with the principal power read-out.


The limits are only the maximum power of the pack and the minimum power through one outlet - all steps being in 1/10th f-stops.

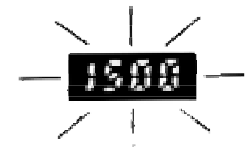


## 10. POWER INDICATOR «BLINKS»

If the power display blinks, the connecting of the lamphood may have given a total Ws/Joules display of all lamphoods of more power than the generator can store.

Press the  touch to reduce the totals of the power displayed to the correct figure. Alternatively, switch off a lamphood.

Conversely, if at minimum power, a lamphood is disconnected, the power indicator will blink because there is now more power in the generator than the read-outs in Ws/Joules indicate. Adjust by pressing .



N.B. The display will also blink if lamphood power supply is greater than the flashtube can accept, e.g. an S1500N head fitted to a generator outlet displaying 3000 Ws will not release and the display indicates that there is an incorrect request.

Adding or removing a lamphood does not change the power programmed into other lamphoods. It increases or decreases the total power stored.

## 11. SWITCHABLE PHOTOCELL (SLAVE)

When switched ON indicator illuminated, the pack can be remotely triggered by another flash unit in your studio.

In difficult situations e.g. daylight, blinding or obstacles, the additional cell (code 11080) with 5 m cord (extensions available) solves most problems.

Alternatively use the FRC-SYNCRON (code 19316) cordless remote flash release.



## 12. SYNCHRONISATION SOCKET

The Amphenol secure locking system with standard 5 m cable is retained.

Longer cables may be used.

N.B. Do not link ELINCHROM units by cable to other manufacturers sync outlets.

ELINCHROM uses low voltage (12 V) for security reasons and other systems with higher voltages may cause damage.



## 12. ACCESSORY SOCKET

Alternatively the ELINCHROM SYNCRON (code 19316) , cordless radio may be used with the FRC-1 transmitter (code 19306) which releases the flash instantaneously - faster but slightly slower than by sync cable. Therefore, use 1/60th for focal plane shutters and 1/125th for in lens shutters.



FRC1 : 19306

Syncon Set : 19310



Alternatively mount an infrared flash trigger on the camera (e. g. Prolinca IR transmitter : code 40203)



## 14. MODELLING LAMP CONTROLS

The modelling lamp will only function when the lamphead is switched on (note : there is an overheating control switch ON/OFF in the lamphead).

- Simple ON/OFF with ON setting indicated. Also incorporated is a slow start system to prolong lamp life
- Half power lamp setting further extends lamp life
- Adjusts the lamp to vary with the flash power.
- DIM/BRIGHT CHARGE INDICATOR This setting underpowers the modelling lamps during charging. At full charge they <<indicate>> by coming to full brightness.
- Used together, the modelling lamp extinguishes during charge.



## 15. USE OF IRS

To activate the Infra Red System press the IRS Control



Allocate the unit a channel number. First press the channel selector



This will display a channel number 0 - 8. kept this button pressed and when you have reached your chosen number release. This sets the unit to the channel number displayed.

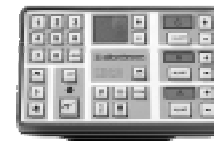
You can either select a different number for every head. If you wish to control two or more heads identically then give them the same channel number, they will then respond to the same signal.

If any other number is selected on the IR-handset, the IRS indicator will blink to advise that the generator is not accepting the commands.



To use the IR-remote : first select a numbered channel on the handset.

This will activate the unit(s) allocated to that channel. No other units will respond. To measure the f-stop, this unit can be flashed alone OR, to take an overall reading, ALL units will respond if «O» is pressed on the handset.



IR Remote control  
code : 19319

## USE OF IRS

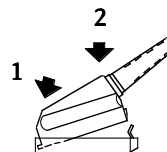
The indicator on the IRS will «blink» on the generator when its channel has not been selected. However, selecting its channel «O» will re-activate the units response system. The units function like and are therefore totally compatible with Micro AS power packs and 750 Micro.



## 13. LAMPHEADS

Important :

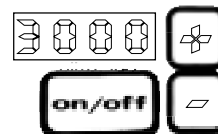
When plugging in a lamphead connector, first push in the front part, then firmly press in the whole plug, the rear part being secured by the locking spring.



**DO NOT PLUG IN OR UNPLUG LAMPCORDS WHILE THE DISPLAYS ARE ON i.e. ILLUMINATED.**

## 14. LAMPHEADS ON/OFF

Connect the lamphead. The ventilator fan functions even in OFF mode. After a studio session, leaving the generator switched on, but the lampheads OFF extends lamp and tube life.



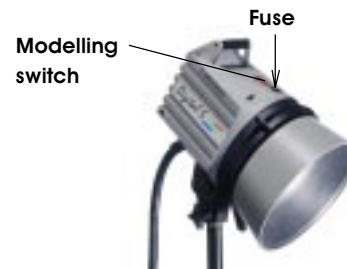
If the power display does not illuminate i.e. ON/OFF appears not to function, the lamphead is incorrectly fitted, the connector is damaged or it is an old lamphead unadapted.

## 15. FUSES FOR LAMPHEADS

Use only FAST BLOW FUSES, type 5 x 20 mm corresponding to the label on each lamphead.

Different modelling lamps require corresponding fuses. Slow blow fuses will not protect the modelling lamp. The fast blow fuse will protect the triac of the modelling lamp circuit, the lamp and therefore the flash tube.

| FUSE             |      |       |
|------------------|------|-------|
| W                | 110V | 240V  |
| 200              | 2AF  | 2AF   |
| 300              | 5AF  | 2,5AF |
| 650              | 10AF | 5AF   |
| ATTENTION        |      |       |
| use only         |      |       |
| recommended fuse |      |       |



## 16. PROTECTIVE PIREX DOME

For use with standard halogen lamp GX 6.35 socket.

Transparent, matt or yellow (400° K colour correction), can be fitted to all lampheads, except R heads (rectangular heads) for which clear or matt security filters are available.

Easy attachment of the protective dome:

- Disconnect the lamphead from the pack
- Loosen the 3 screws of the lamphead reflector
- Fit the clips underneath the screw heads and tighten the screws
- Put the dome in place and hook the springs into the airvent holes.

The security filters for the Digital RE - R 3000 - Mini R, can be put on the lateral accessory holders, clear (code 26253) or matt (code 26254).



## 17. LAMPHEAD TYPES

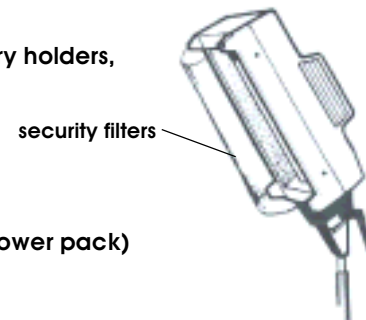
1. With standard flash duration : Types S and R (Digital S - Digital SE - Digital RE)
2. With action stopping (short flash duration) : Type A (X 6000N and Twin X4 with one power pack)  
For fashion photography, sport applications and just as useful in the studio for photographing fast moving subjects.

**NOTE :** Due to their relatively high power and short duration, it is probable that the flash tube may be shorter than our standard lampheads.

The X-heads (X6000N -Twin X4 - X8000) has two special flash tubes that focus and maximise the light output.

They can be used for standard or action :

- a) with each cable in a separate power pack, it gives standard flash duration.
- b) with both cables in the same power pack, it gives short flash duration.



**FOR YOUR SAFETY, USE ONLY ELINCHROM LAMPHEADS ON YOUR GENERATORS**

## 18. LAMPHEAD COMPATIBILITY

Below is a table listing lampheads made since 1980 which are adaptable and indicates the equivalent in the current series.

| MAXIMUM POWER   | Compatible with : Digital 1500/3000 AS and MICRO AS  |                                    |                                | ADAPTABLE |
|---|--|------------------------------------|--------------------------------|-----------|
|   | From 1992  | 1988                               | 1986                           | 1980      |
| 1500/2400 WS<br><br>2400 Ws/2000*<br>2400 Ws/2000*<br>2400 Ws/2000*<br>2400 Ws/2000*<br>2400 Ws/2000* | S1500 N<br>Mini 1500<br>Mini A<br>Mini R<br>Mini S<br>Chic S2<br>Digital SEE<br>Digital RE   | S2000<br>A2000<br>R2000            | S2<br>A2<br>R2                 | S         |
| 3000 Ws**   | Digital S (4000 W)<br>Digital SE<br>R3000<br>S3000N<br>A3000N<br>Spot Lite 3000<br>Box Lite 3000<br>Boxlite 3000N<br>Ringflash RF 3000 | S3000                              | A3000                          |           |
| 4000 Ws   | Digital S<br>S4000   | T4<br>A4<br>Box Lite 4000<br>R4000 | T<br>A4<br>Box Lite 4000<br>R4 | A         |
| 4800 Ws (2 x 2400)  | Twin X4  |                                    |                                |           |
| 6000 Ws (2 x 3000)  | X6000N   |                                    |                                |           |
| 8000 Ws (2 x 4000)  |  | X8000                              | X8                             | X         |

\* 2000 Ws with MICRO series

\*\* 3000 Ws with MICRO series

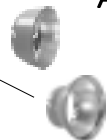


## Accessories overview

### Reflectors

Wide angle ø 16 cm /90°  
 Compact ø 18 cm /60°  
 Standard ø 21 cm /50°  
 Mini soft 44 silver  
 Mini soft 44 white

**code**  
 26143  
 26144  
 26141  
 26166  
 26168



### Snoot

26425



### Grids

Grid set for 18 cm  
 Grid set for 21 cm

**code**  
 26135  
 26025



### Lightshaper carriers

Carrier for 21 cm reflectors  
 Bandoor set for 21 cm

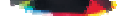
**code**  
 26034  
 26037



### Filters

Set of 10 color/mixed for  
 21 cm x 21 cm  
 Polarizing filter 21 cm

**code**  
 26243  
 26244



### Lightbanks ROTALUX

Square 70 x70 cm  
 Square 100 x100 cm

**code**  
 26178  
 26179



Strip 95 x 35 cm  
 Rectangular 130 x 50 cm

26180  
 26181

Octagonal 100 cm  
 Octagonal 135 cm

26183  
 26184

### Varistar Umbrellas

Varistar Umbrella 85 cm  
 Varistar Umbrella 105 cm

26383  
 26384

### Umbrellas

White diam. 105 cm  
 Silver diam. 105 cm  
 Translucent diam. 105 cm

**code**  
 26375  
 26361  
 26374



### Spots

Zoom 12° - 24°

**code**  
 26471

Mini spot

26420

fresnel spot

26450



### Tripods

Tripod «Deluxe» 85-200 cm  
 Tripod «Master» 105-385 cm

**code**  
 30128B  
 30149B

### Bags

Carrying bag for 3 stands +  
 umbrellas 105 cm  
 Bag for medium size Rotalux  
 Bag for large size Rotalux

**code**  
 33222  
 33223  
 33224

### Trigger accessories and flashmeter

IR flash remote  
 Radio set FRC1  
 Additional cell with grip

**code**  
 40203  
 19305  
 11080



### Miscellaneous cords

Synchro cable 5 m lenght,  
 camera to units  
 Mains cord

**code**  
 11075  
 11070



### Modelling lamps (200-260 V)

Krypton lamp E27/100 W  
 Halogen lamp E27/ 250 W/2000 hrs  
 Halogen lamp 300 W/GX 6,35  
 Halogen lamp 650 W/GX 6,35

**code**  
 23002  
 23018  
 23022  
 23005



### Modelling lamps (100-140 V)

Krypton lamp E27/100 W  
 Halogen lamp E27/ 250 W/2000 hrs  
 Halogen lamp 300 W/GX 6,35  
 Halogen lamp 650 W/GX 6,35

**code**  
 23006  
 23019  
 23030  
 23027



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