

Digital 1500 AS

For DIGITAL PHOTOGRAPHY

POWER

STABILITY

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 1500 As generator is manufactured by Elinca S.A. CH - 1020 Renens/Switzerland

Dear Photographer,

Thank you for buying your «Digital 1500 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

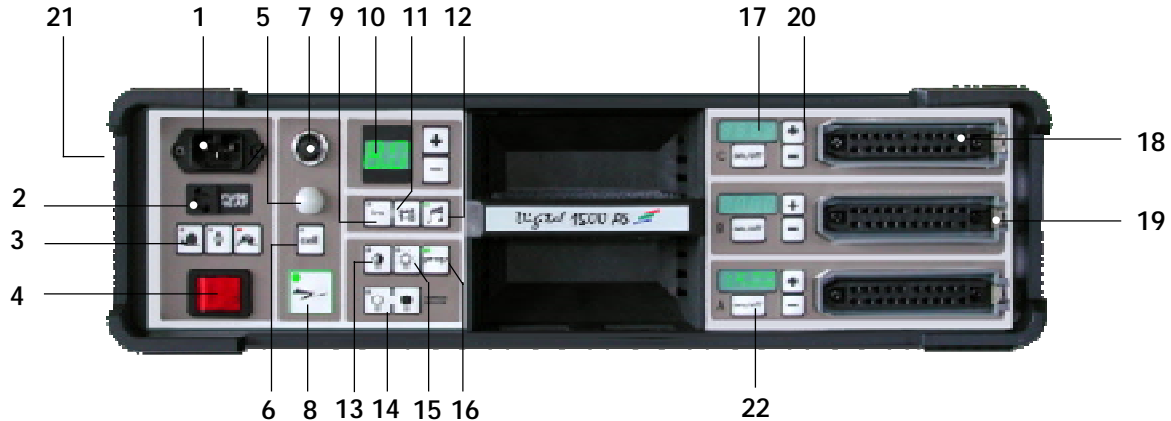
According to safety regulations, we draw your attention to the fact that these electronic flash units are not designed for use outdoors, in damp or dusty conditions and should not be used after being exposed to sudden temperature changes causing condensation. They must always be connected to an earthed (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 1500 AS (1500Ws) 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 16.7 to 128.3).




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 27 cms

Weight: 8.6 kg

CHARGE SPEED			
on mains 230 V - 50 Hz	0.8 - 5 s	0.7 - 3.5 s	0.6 - 2.5 s
on mains 115 V - 60 Hz	0.9 - 6 s	0.8 - 4.5 s	0.7 - 3.5 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
8	1500	(128.3)	1/1
7	750	(90.3)	1/2
6	375	(64.3)	1/4
5	188	(45.3)	1/8
4	95	(32.3)	1/16
4**	47	(22.3)	1/32 with 2 lampheds
4***	31	(16.7)	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 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 lampheads.

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

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

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

The ratio never changes and the power in any one lamphead 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 lamphead 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.

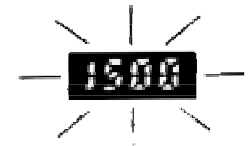


10. POWER INDICATOR «BLINKS»

If the power display blinks, the connecting of the lamphead may have given a total Ws/Joules display of all lampheads 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 lamphead.

Conversely, if at minimum power, a lamphead 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 lamphead power supply is greater than the flashtube can accept, e.g. an S1500N head fitted to a generator outlet displaying 1500 Ws will not release and the display indicates that there is an incorrect request.

Adding or removing a lamphead does not change the power programmed into other lampheads. 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

Synchron 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.

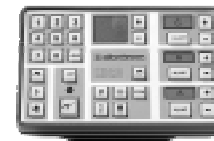
You can either select a different number for every head. If you wish to control two or more heads identically then give them the same channel number, they will then respond to the same signal.

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

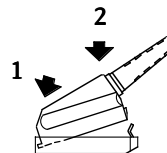
The indicator on the IRS will «blink» on the generator when its channel has not been selected. However, selecting its channel «O» will re-activate the units response system. The units function like and are therefore totally compatible with Micro AS power packs and 750 Micro.



13. LAMPHEADS

Important :

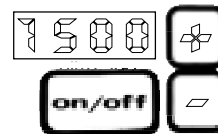
When plugging in a lamphead connector, first push in the front part, then firmly press in the whole plug, the rear part being secured by the locking spring.



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.



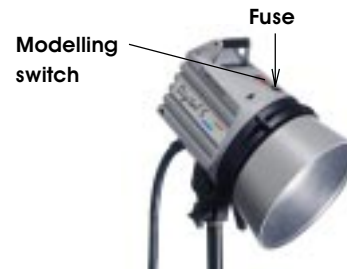
If the power display does not illuminate i.e. ON/OFF appears not to function, the lamphead is incorrectly fitted, the connector is damaged or it is an old lamphead unadapted.

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, matt (code 26254).

17. LAMPHEAD TYPES

1. With standard flash duration : Types S and R (Digital S - Digital SE - Digital SEE - 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.

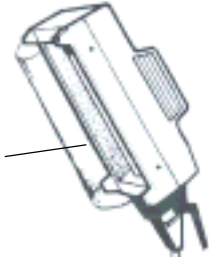
NOTE : Due to their relatively high power and short duration, it is probable that the flash tube may be shorter than our standard lampheads.

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	S1500 N Mini 1500	S2000 A2000 R 2000	S2 A2 R2	S
2400 Ws/2000*	Mini A			
2400 Ws/2000*	Mini R			
2400 Ws/2000*	Mini S			
2400 Ws/2000*	Chic S2			
2400 Ws/2000*	Digital SEE			
2400 Ws/2000*	Digital RE			
3000 Ws**	Digital S (4000 W) Digital SE R3000 S3000N A3000N Spot Lite 3000 Box Lite 3000 Boxlite 3000N Ringflash RF 3000	S3000	A3000	
4000 Ws	Digital S S4000	T4 A4 Box Lite 4000 R4000	T A4 Box Lite 4000 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 and Digital AS series.

** 3000 Ws, with MICRO and Digital AS series



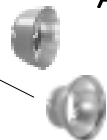
Accessories overview

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°

Mini spot

fresnel spot

Tripods

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

Bags

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

Trigger accessories and flashmeter

IR flash remote
 Radio set FRC1
 Additional cell with grip

Miscellaneous cords

Synchro cable 5 m lenght,
 camera to units
 Mains cord

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

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

26471

26420

26450

code

30128B
 30149B

code

33222
 33223
 33224

code

40203
 19305

11080

code

11075
 11070

code

23002
 23018
 23022
 23005

code

23006
 23019
 23030
 23027





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