

elinchrom
SWISS MADE STUDIO FLASH SYSTEM

1500
3000
6000

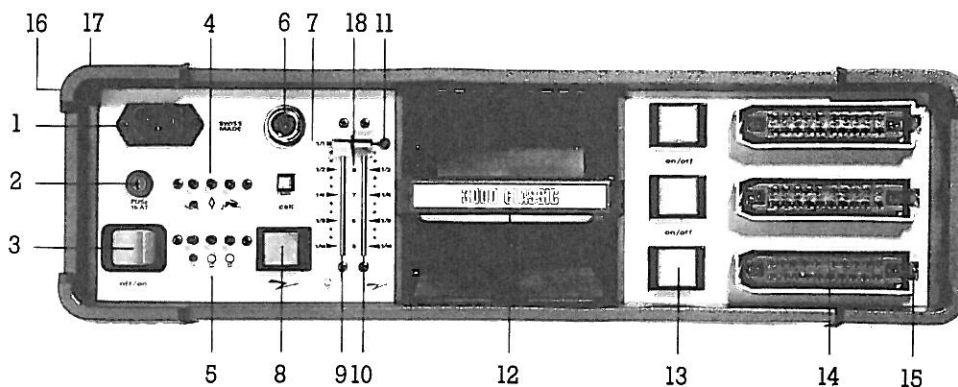
CLASSIC

INSTRUCTIONS FOR USE



CONTROL PANEL

- | | |
|---|--|
| 1 Power socket | 7 Photocell with red/green off/on indicator |
| 2 Fuse AC supply | 8 Illuminated open flash button |
| 3 Illuminated power switch | 9 Modelling light variator
(5 diaphragms range) |
| 4 Charge speed selectors | 10 Flash power variator
(5 diaphragms range) |
| ● slow charge 220-240 V = 6 A 110 V = 10 A | 11 Forming charge full power signal |
| ◇ medium charge 220-240 V = 10 A 110 V = 16 A | 12 Hand grip |
| ▶ fast charge 220-240 V = 16 A 110 V = 25 A | 13 Lamphead control switches |
| 5 Modelling light selectors | 14 Lamphead outlets |
| ● lights off | 15 Plug locks and releases |
| ○ lights on with "ready signal" | 16 Socket for accessories |
| ◐ lights on with continuous full power | 17 All round protectors |
| 6 Sync.-socket | 18 Total power scale |



ACCORDING TO THE SAFETY REGULATIONS, WE DRAW YOUR ATTENTION TO THE FACT THAT THIS EQUIPMENT SHOULD BE USED ONLY IN DRY PLACES

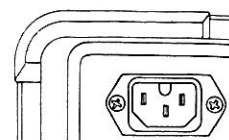
OPERATION

1. Mains switch: While in the off position (left side depressed), firmly push in the plug of the original EL mains cable. The fuse of your AC supply should be: 220-240V - 16A / 110V - 25A.
2. Connect the mains cord (1)
3. Connect lampheads ensuring that lamphead switches are OFF, i.e. NOT pushed down (down is the ON position).
4. Switch on the mains power (3)
5. Check photocell (7) is in the RED/OFF position until required
6. Select charging rate (4) (medium charge ◇).
7. Select modelling lamp setting (5)
8. Switch on lampheads (13). On slow charge setting, with modelling lamps set at the middle position (lamp dims, flickering may occur). See section 12.
9. The green READY LIGHT (8) indicates that the unit is charged as required. See section 7.

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

1. MAINS SUPPLY

While the MAINS SWITCH (3) is switched off (not illuminated), firmly push in the plug of the original ELINCHROM mains cord.



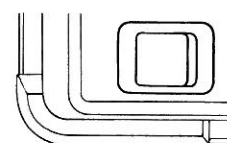
2. FUSE

Standard type 5 × 20 mm, 16 AT. Before exchanging a blown fuse switch off the unit (3) and remove mains cable. Depress and turn the fuse holder anti-clockwise 1/8th turn and remove it. If the new fuse blows immediately upon reconnection give the pack to an ELINCHROM service centre for a check-up. (N.B. Check fuse is correct value 16 A).



3. MAINS SWITCH

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



4. SWITCHABLE PHOTO CELL (SLAVE)

Button up and green light = cell switched on

Button down and red light = cell switched off

When switched on the pack can be remote triggered by an other flash unit in your studio. In difficult situations e.g. daylight, blinding, obstacles, the additional cell with 5 m cord (extensions available) solves most problems. Alternatively use the FRC-SYNCRON cordless remote flash release.



5. CHARGE SPEED SELECTORS

- Press the button of chosen speed

RAPID	Allows fast recycling but draws more power e.g.	
	220-240 V = 16 A	110 V = 25 A
MEDIUM	220-240 V = 10 A	110 V = 16 A
SLOW	220-240 V = 6 A	110 V = 10 A






Slow charge is recommended when the mains capacity is too limited for the use of MEDIUM charge.

6. ADEQUATE FUSES FOR MAINS SUPPLY

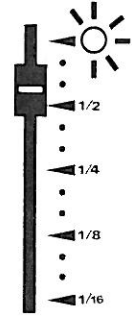
For 220-240 V

For 110 V

		
6 A	10 A	16 A
10 A	16 A	25 A

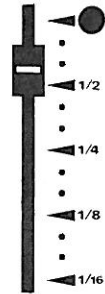
7. FORMING CHARGE SIGNAL

When first switching on, the capacitors always reform slowly, whether the charge setting is slow, medium or fast. The signal (11) illuminates to indicate full charge, whether the power setting is lower or not. Triggering the OPEN FLASH TOUCH (8) discharges the preformed full power and the unit recharges to your preselected level. Whenever reducing the power setting release a flash and the unit will recharge to your preselected power.



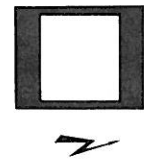
8. VARIABLE, STEPLESS FLASH POWER CONTROL

The sliding controls cover a range from full power to 1/16 and their linear scales are marked in 1/3 f-stops. However, the power increase or reduction is continuously and infinitely variable in the smallest fractions of an f-stop. Whenever reducing the power setting release a flash and the unit will recharge to your preselected power.



9. OPEN FLASH BUTTON WITH READY LIGHT

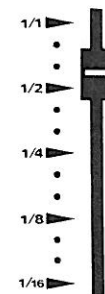
Having pressed this illuminated button to release a flash, the green light will appear again when the pack is recharged. If the green light does not appear the charge system could be defective. Please check at ELINCHROM service centre.



10. VARIABLE, STEPLESS MODELLING LAMP POWER CONTROL

Identical use as for the FLASH POWER CONTROL.

The two sliding controls can be adjusted together, always giving proportional modelling light - and flash power, or can be used independently.



11. MODELLING LIGHT

Select and push in one of these buttons. The modelling light will be the same for all lamphead outlets.



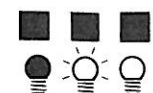
Modelling lamp OFF



Modelling lamp ON with optical end of charge signal (diminished brightness until the pack is fully charged).



Modelling lamp ON with permanent full power, proportional as per control 2.



12. SYNC SOCKET

Plug-in the sync cable and secure it with the screw-ring. Do not connect other makes of flash units to an ELINCHROM sync socket. This could damage your unit because ELINCHROM, for security reasons, use a trigger voltage of only 20 V.



ALTERNATIVE: Cordless flash release may be used such as the ELINCHROM FRC-1 SYNCRON units. The transmission is slightly slower than by sync cable. Therefore, use 1/60 for focal plane shutters (see camera specifications) and 1/125 for blade shutters (central shutters).




13. ACCESSORY SOCKET

This socket allows direct, cordless connection of:

- Remote flash release FRC SYNCRON



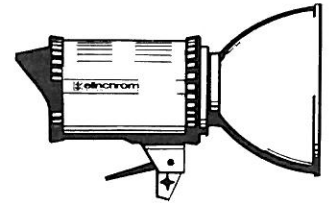
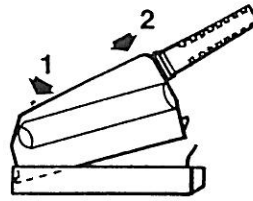
14. CHARGE SPEED

				
		1/16 — 1/1	1/16 — 1/1	1/16 — 1/1
220 V	ELINCHROM 1500 CLASSIC	2,6 - 8,8 s	1,0 - 2,7 s	0,3 - 1,5 s
110 V		3,0 - 9,5 s	1,4 - 3,4 s	0,8 - 1,8 s
220 V	ELINCHROM 3000 CLASSIC	4,8 - 16,4 s	1,6 - 4,8 s	0,9 - 2,5 s
110 V		6,0 - 27,0 s	2,7 - 8,0 s	1,5 - 4,2 s
220 V	ELINCHROM 6000 CLASSIC	10,0 - 35,0 s	3,0 - 10,0 s	1,5 - 5,0 s
110 V		12,0 - 57,0 s	4,1 - 16,4 s	2,5 - 8,5 s

Charge times are slower on 110 V because the reduced voltage requires higher currents which many main fuses may not accept.

15. CORRESPONDING POWER AND F-STOP

Fully charged power in Ws/Joules			f-stop at 1 m 100 ASA / 21 DIN
1500 CLASSIC	3000 CLASSIC	6000 CLASSIC	
		6000 1/1	256 1/3
	3000 1/1	3000 1/2	180 1/3
1500 1/1	1500 1/2	1500 1/4	128 1/3
750 1/2	750 1/4	750 1/8	90 1/3
375 1/4	375 1/8	375 1/16	64 1/3
188 1/8	188 1/16		45 1/3
95 1/16			32 1/3



16. LAMPHEADS

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 YELLOW SWITCHES ARE ON i.e. ILLUMINATED.



17. LAMPHEAD CONTROL BUTTONS

These switches operate the modelling lamp and trigger circuit for the flash tubes. Whether switched ON or OFF, the ventilator continues cooling the lamphead which extends the life-span of the tubes.

on/off



18. FUSES FOR LAMPHEADS

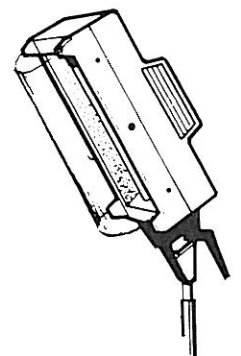
Use only FAST BLOW FUSES, type ASP 5 × 20 mm corresponding to the label on each lamphead. Different modelling lamps require corresponding fuses. Slow blow fuses will not protect the modelling lamp. The fast blow fuse will protect the TRIAC of the modelling lamp circuit, the modelling lamp and therefore the flashtube.

19. PROTECTIVE PYREX DOME

Transparent, matt or yellow domes can be easily fitted to all lampheads, except R 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



20. LAMPHEAD TYPES

1. With standard flash duration. Types S (T) and R
2. With action stopping (short flash duration). Type A

The X-head with two flashtubes can be standard or action:

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

21. ASYMMETRIC POWER DISTRIBUTION

When lampheads of different types are "mixed" asymmetrical light output will be given because A type flashtubes draw power very rapidly.

For approximate output difference, see below:

A	OTHER	A	OTHER	OTHER	A	A	OTHER
75%	25%	60%	20%	20%	40%	40%	20%
A gives 1 1/2 f-stop more than the other		A gives 1 1/2 f-stop more than the other			A gives 1 f-stop more than the other head		

22. FLASH DURATION

TYPES	1500 CLASSIC	3000 CLASSIC	6000 CLASSIC
A	1/1650 s	1/1000 s	* 1/900 s
S	1/900 s	1/500 s	* 1/350 s

AT t 0,5

* with 2 lampheads

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

23. LAMPHEAD COMPATIBILITY

All lampheads since October 1986 have been designed to inform MICRO generators of their type. Lampheads before that date will refuse to function until modified. This is a simple modification and can be done by an ELINCHROM service center.

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

MAXIMUM POWER	COMPATIBLE			ADAPTABLE
	1992	1988	1986	1980
1500/2000 WS	S1500N - -	S2000 A2000 R2000	S2 A2 R2	S - -
3000/4000 WS	S3000N A3000N Spot Lite 3000 Box Lite 3000	S3000 A3000 - -	- - - -	- - - -
4000 WS	- - - -	S4000 A4 Box Lite 4000 R4000	T4 A4 Box Lite 4000 R4	T A - -
6000 WS	X6000N	-	-	-
8000 WS	-	X8000	X8	X

