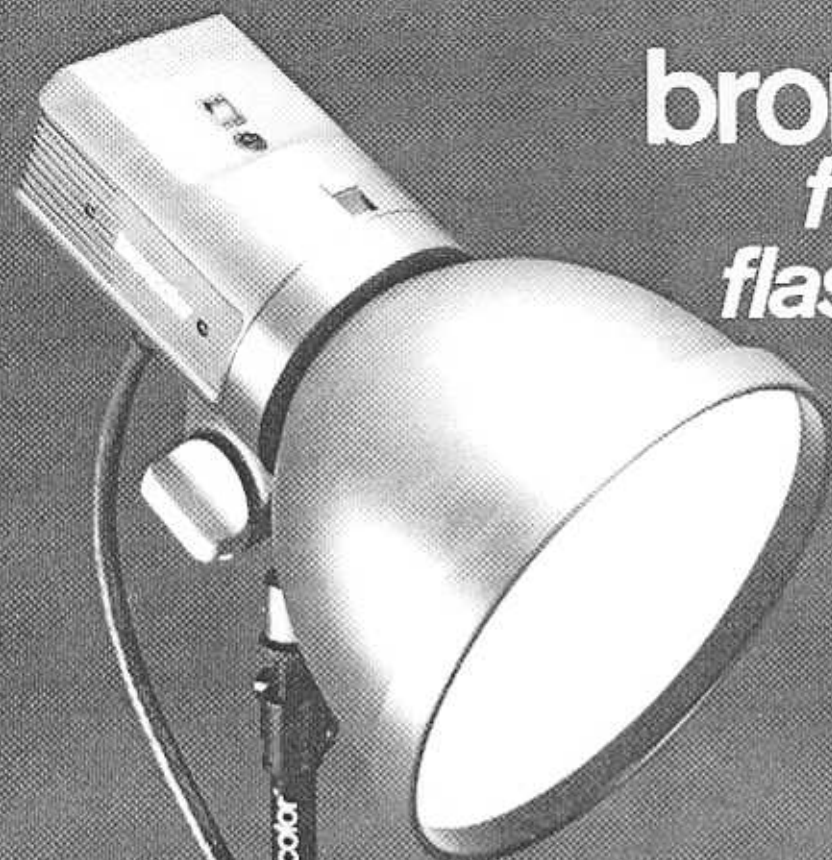


broncolor®
flashman
flashman 2



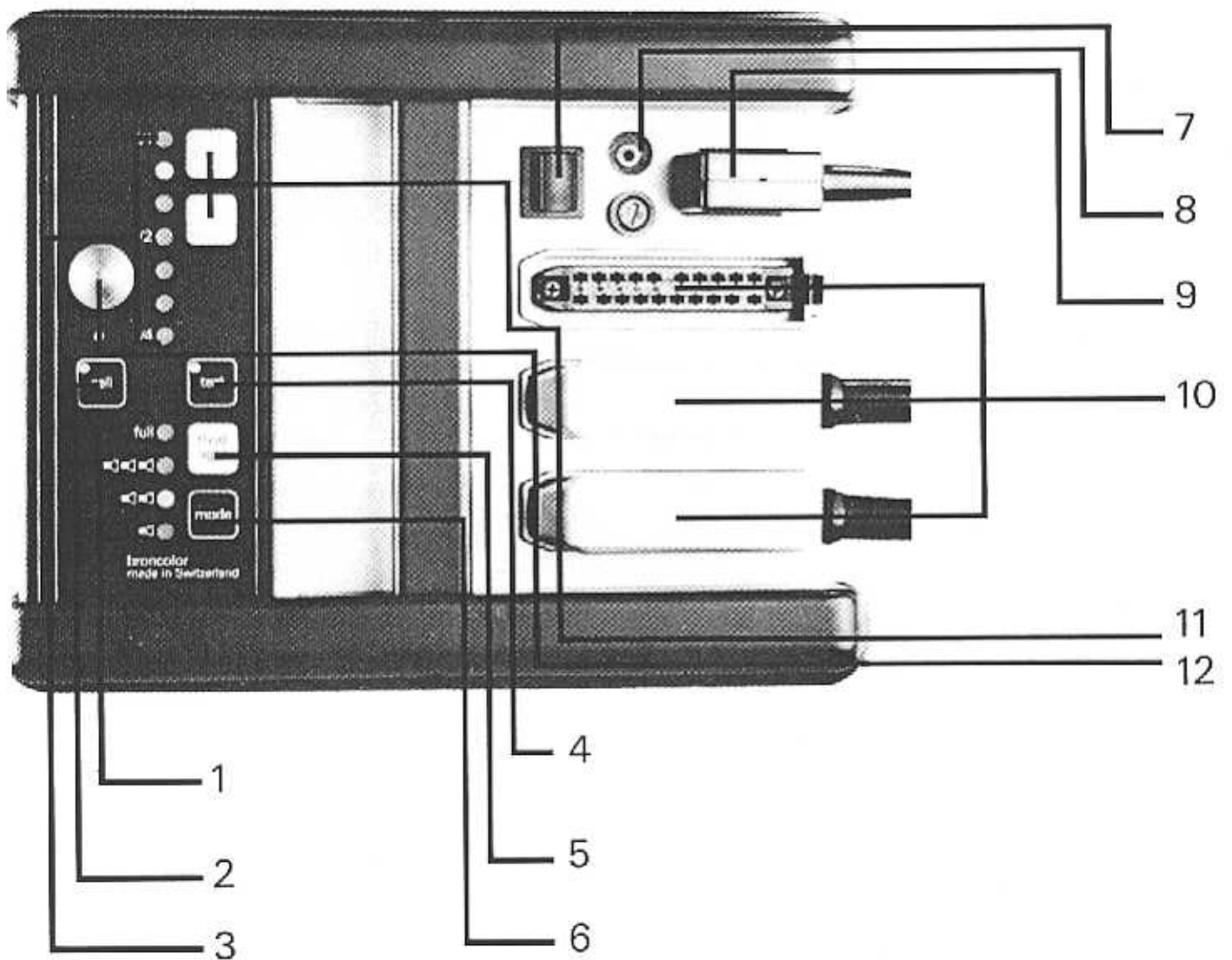
BEDIENUNGSANLEITUNG
MODE D'EMPLOI
OPERATING INSTRUCTION

CONTENTS

page

1. Operating elements	7
2. Start up	8
3. Energy control	8
4. Lamphead sockets	8
5. Modelling light	9
6. Photocell and IRS receiver	9
7. Visual ready display, test flash	10
8. Slow charge	10
9. Technical data	10

Operating elements



- 1 Modelling light display
- 2 Photocell on/off
- 3 Flash power display
- 4 Open flash and ready signal
- 5 Modelling light on/off
- 6 Modelling light selector
- 7 Mains switch, fast and slow charge
- 8 Synchronous socket
- 9 Socket for mains plug
- 10 Plug sockets for lampheads
- 11 Power selector
- 12 IRS Receiver

2. Start up

Compare voltage specified on rating plate with local line voltage. The rating plate is located on the bottom panel of the unit. See "technical data" for details.

Connect lamphead(s) with the proper rating (halogen lamp 240 V or 100/120 V AC) to the power pack (10).

Set mains switch (7) to "0".

Plug power pack to grounded power connection (9).

200-240 V, 10 Amp.

100-120 V, 16 Amp.

System is ready for operation.

Mains switch functions:

"I" = slow charge approx. 8 seconds (1/1 power)

"0" = off

"II" = fast charge 1 second (1/1 power)

for weak mains. Slow charge see chapter 8.

3. Energy control

The two touch keys marked "-" and "+" (11) can be used to adjust the flash intensity from 1/1 to 1/4 in 7 steps of 1/3 f-stops each. The LED corresponding to the selected step (3) will light up.

When a lower energy level is selected, the unit will first flash to drain the entire charge and then recharge to the selected energy level.

Flashman 2 has an internal discharging device which makes the discharge flash unnecessary when a lower energy level is selected.

4. Lamphead sockets

The three lamphead sockets (10) are identical; the lampheads can be connected to any of these sockets. The preselected energy is distributed to 2 x 1/2 if two sockets are occupied and to 3 x 1/3 if three are occupied. For flashman we recommend the flashman lamphead, for flashman 2 the pulso 2 lamphead.

The following lamphead types can be used with the flashman power packs:

Pulso lamp base 2, Pulso Hazy lamp base 2, lighting elements Cumulite 4 x 3200 J, Striplite 2 x 3200 J, Boxlite 30/40, Pulso Spot, Effect light, Flashman lamp base (for flashman 2 until max. 950 J).

Before a lamp plug is inserted or withdrawn, the power pack must be switched off with the mains switch (7).

As soon as the power pack has been fully charged, the green LED "test" (4) will light up. The charging time depends on the selected flash intensity and on the line voltage. See technical data for details.

5. Modelling light

The "mod.light" touch key (5) switches the modelling light of all connected lampheads on and off.

The "mode" touch key is used to adjust proportional brightness. Choose the proper setting "☐" in accordance with the corresponding number of connected lampheads. This operating mode is significant when checking the light intensity of the individual lamps in a configuration which includes several Flashman power packs and a variable number of lampheads with different ranges. Instead of 650 W halogen lamps, 220/240 V units will also accept 300 W lamps; this assures proportionality between Flashman and Flashman 2 as well as to Pulso 2 power packs.

In the "full" setting, all connected lampheads will have their full modelling light intensity. This does not affect the flash intensity.

6. Photocell and IRS receiver

The "cell" touch key (2) switches the photocell and the IRS receiver on and off.

The IRS receiver (infrared synchronization) receives a signal from the IRS transmitter on the camera for cordless flash synchronization.

Synchronization can also be obtained conventionally with the synchro cable connected to the socket (8).

7. Visual ready display, test flash

As soon as the charge level has reached 100 %, the green LED in the "test" key (4) will light up. This touch key can be depressed to trigger a test flash.

8. Slow charge " I "

For weak mains use position " I " with only max. 3 x 300 W or 1 x 650 W modelling lamps.

Standard values for use of slow charge:

200 - 240 V lower than 10 Amp.
100 - 120 V lower than 16 Amp.

9. Technical Data

	<i>flashman</i>	<i>flashman 2</i>
<i>Flash energy</i>	950 J	1900 J
<i>f-stop at 2m with 100° ISO</i>	45 2/3 Reflectors P 70	64 2/3 Reflectors P 70
<i>Flash duration 1/0,5 (1/0, 1)</i>	1/1000s (1/300s) 1 lamphead 1/1900s (1/570s) 2 lampheads 1/2700s (1/820s) 3 lampheads	1/500s (1/150s) 1 lamphead 1/950s (1/290s) 2 lampheads 1/1350s (1/400s) 3 lampheads
<i>Recycling time (100%) standard</i>	0,5...1s (120V, 220V, 240V) 0,6...1,3s (100V)	1,2...2,4s (120V, 220V, 240V) 1,2...2,6s (100V)
<i>Slow charge with weak network (100%)</i>	6 - 11s	6 - 11s
<i>Lamp connections</i>	3 (symmetric power distribution)	
<i>Power selection</i>	Common for flash and modelling light with keys and LED display. Range 1:4 in 1/3 f-stops	
<i>Modelling light</i>	max. 3 x 650 W (220/240 V) 3 x 250 W (100/120 V) Control proportional to flash output; extra positions: full/off	
<i>Release</i>	Built-in IHS receiver and built-in photocell, both with disable feature, synchro cable, open flash button	
<i>Power stabilization</i>	± 1%	± 1%
<i>RF suppression</i>	SEV/VDE class N	SEV/VDE class N
<i>Power requirements</i>	220/240V, 50/60Hz, 10A 100/120V, 50/60Hz, 15A	220/240V, 50/60Hz, 10A 100/120V, 50/60Hz, 15A
<i>Weight</i>	15,4 lbs (7 kg)	21, 12 lbs (9,6 kg)
<i>Dimensions</i>	285 x 225 x 280 mm (11 1/8" x 8 3/4" x 11")	285 x 225 x 355 mm (11 1/8" x 8 3/4" x 14")