

MULTIGRADE 500H ENLARGER HEAD

Dimensions	Height 216mm Width 316mm Depth 173mm
Weight	3kg excluding light mixing box and adaptor kit
Construction	Black stoved aluminium alloy sheet and extrusion, with polycarbonate end plates
Electrical cord (integral)	Multicore Length 2m Maximum voltage 120Vac
Lamps	Two 120Vac 300W ANSI code ELH Quartz halogen projection lamp with dichroic reflector.
Heat filters	Four 30x15x2mm heat absorbing glass
Color filters	Two 25x25x1mm. One blue and one green dichroic interference filter coating on glass substrate. Tempered for maximum stability. Cut-off wavelengths selected to give optimum grade range on ILFORD variable contrast paper.
Cooling fan	115Vac 21W dynamically balanced centrifugal type. The fan cools both lamp and filter assemblies.
Safety features	Safety cut-out cuts power to lamps under abnormal operating conditions, eg fan failure. Micro-switch cuts power to lamps and fan when door is opened.
Light mixing boxes	Diffuser type adaptor kit Up to three sizes are supplied to cover the following negative sizes: up to 35mm, from 35mm to 6x7cm and from 6x7cm to 4x5 inches. Condenser type adaptor kit One box is supplied. Negative coverage is limited only by your enlarger.
	Note In all cases, the light mixing box or boxes are supplied with the adaptor kit.

MULTIGRADE 500CPM CONTROL UNIT

Dimensions	Height 46mm Width 186mm Depth 192mm
Weight	1.2kg
Construction	Black stoved aluminium alloy extrusion, with zinc die-cast end plates
Electrical cord (separate)	Multicore Length 2m
Features	Listed below. Operation of each is by an illuminated button, except for 'expose-cancel' which is a raised bar. Audible confirmation of control operations can be selected. Exposure time - 0 to 99.9 seconds in steps of 0.1 seconds. Grade - 0 to 5 in half-grade steps. Memory and Memory clear - for storage of 1 main exposure and up to 8 additional exposures. Burn Bleep Prints counter and Prints clear Focus Expose-cancel
Display	Digital, 7 segment LED
Electronics	Microprocessor incorporating memory
Additional features	Sockets for optional exposure probe and footswitch. Program switch to compensate for lamps that vary in light intensity. Automatic voltage compensation for variations in mains voltage up to $\pm 4\%$.

MULTIGRADE 500S POWER SUPPLY

Dimensions	Height 175mm Width 254mm Depth 140mm
Weight	10.3kg
Construction	Totally enclosed unit using black stoved aluminium alloy extrusions, with zinc die-cast end plates
Electrical cord (separate)	3 core, live, neutral and earth Length - 2m
Mains input	Voltage 120Vac. Frequency 50 or 60Hz (automatic selection). Power consumption 600W maximum.
Replacement fuses	
Mains input	120V 6.3A SB
Safelight socket	250V 1A.
Outputs	Control unit Enlarger head 1A supply for local safelight

MULTIGRADE 500P EXPOSURE PROBE

Dimensions	Height 19mm Width 50mm Depth 155mm
Weight	0.35kg
Construction	Black stoved zinc die-casting
Electrical cord (integral)	Multicore Length 1.2m
Controls	Measurement period initiated by push button incorporating LED indication. Ten position calibration knob
Exposure times	1 to 50 seconds (1 second at 20 lux baseboard illumination)
Repeatability	Without safelights, better than $\pm 2\%$ With safelights, typically $\pm 4\%$

Constant improvements in ILFORD products mean that changes in design or specification may occur from time to time. It will not always be possible to amend instructions at the same time, and the right to alter the design and specification of the equipment without prior notice is accordingly reserved.

MULTIGRADE 500 is covered by patents and patent applications.

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MEMORY RECORD SHEET

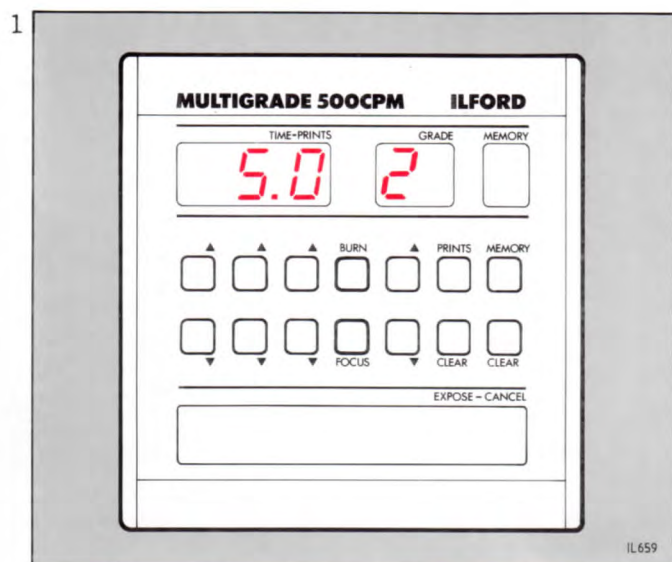
ILFORD MULTIGRADE 500CPM

TIME-PRINTS	GRADE	MEMORY	COMMENTS
<div></div> <div></div> <div></div>	<div></div>	1	
<div></div> <div></div> <div></div>	<div></div>	2	
<div></div> <div></div> <div></div>	<div></div>	3	
<div></div> <div></div> <div></div>	<div></div>	4	
<div></div> <div></div> <div></div>	<div></div>	5	
<div></div> <div></div> <div></div>	<div></div>	6	
<div></div> <div></div> <div></div>	<div></div>	7	
<div></div> <div></div> <div></div>	<div></div>	8	
<div></div> <div></div> <div></div>	<div></div>	9	

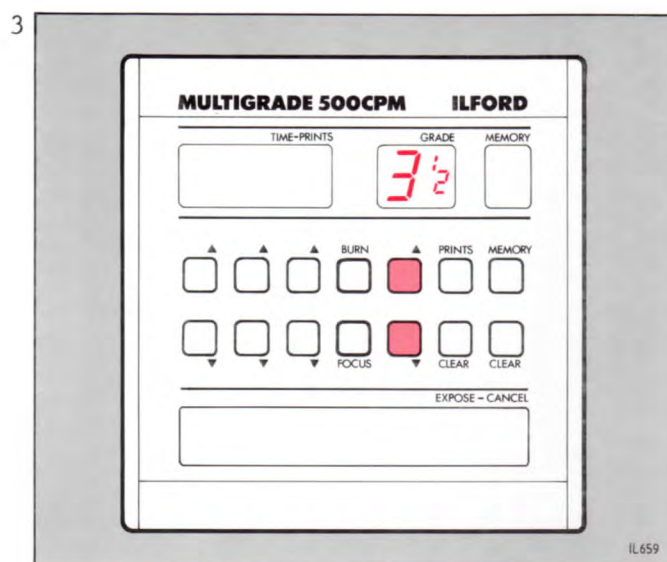
NEGATIVE REFERENCE	ENLARGER APERTURE
<div></div>	<div></div>
FILE NUMBER	PRINT SIZE
<div></div>	<div></div>

ILFORD MULTIGRADE 500 SIMPLIFIED INSTRUCTIONS 50Hz/60

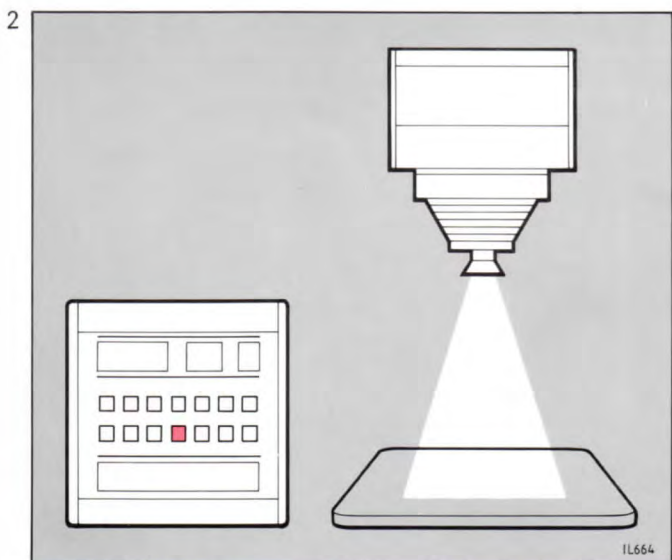
OPERATING



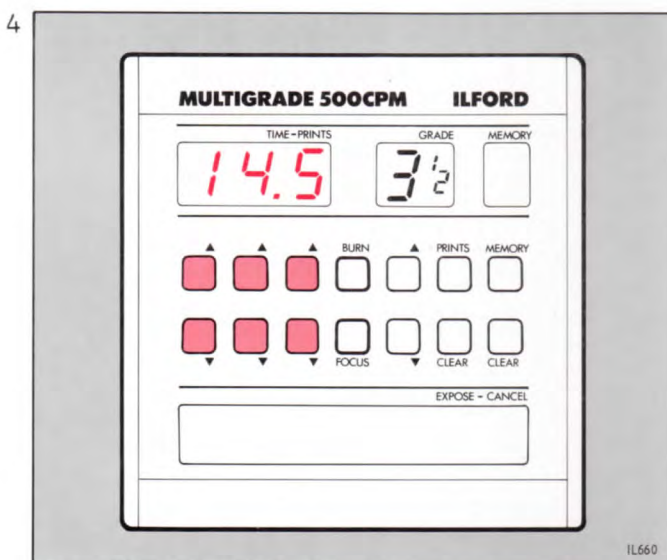
Switch on. Ensure typical display.



Select contrast (or after operation 5).



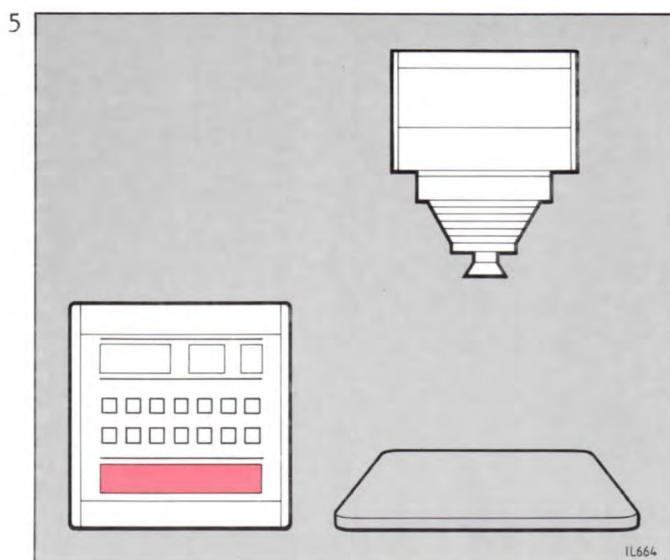
Locate negative. Select 'focus' (note 1).



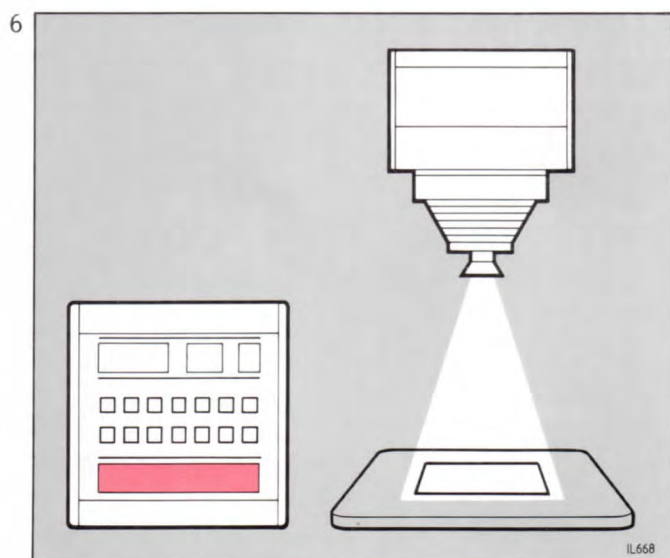
Select exposure time (or after operation 5).

IMPORTANT NOTES

- 1 Light suitable for focusing, composition and assessment is projected.
- 2 If the print density is correct but a different grade of contrast is required, select the new contrast. It is not necessary to alter exposure time since light intensity is adjusted automatically across the range of contrasts.



Press 'expose-cancel' to cancel 'focus'.

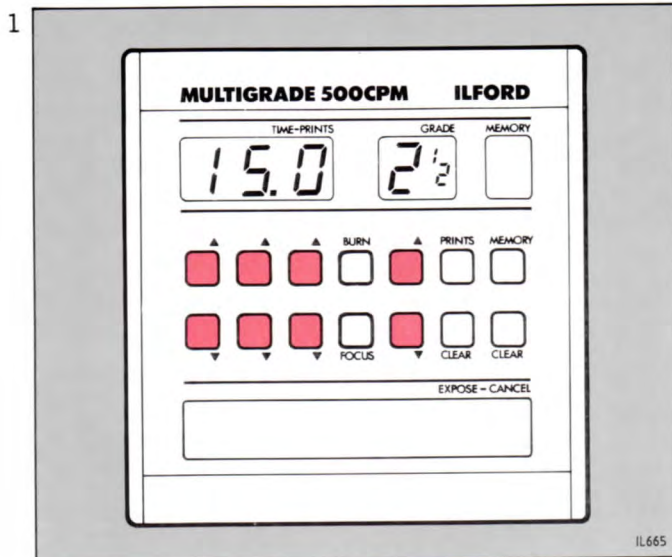


Expose a sheet by pressing 'expose-cancel' (note 2).

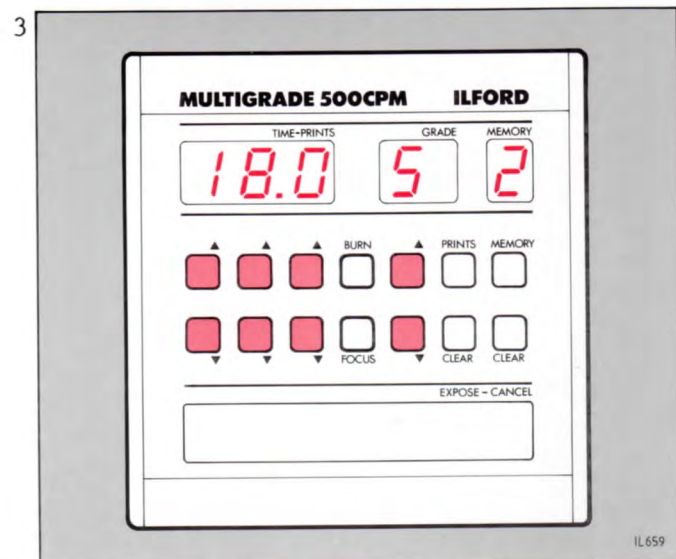
ILFORD MULTIGRADE 500 SIMPLIFIED INSTRUCTIONS 50Hz.

MEMORY

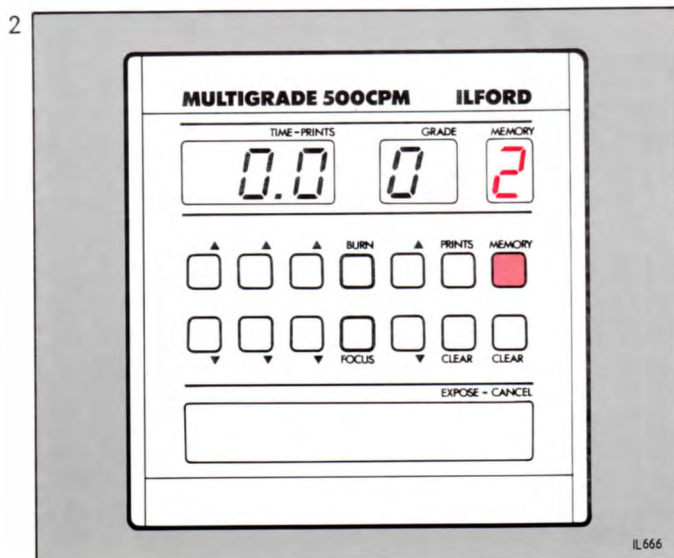
PROGRAMMING



Select exposure time and grade (note 1).



Select exposure time and grade (note 3).

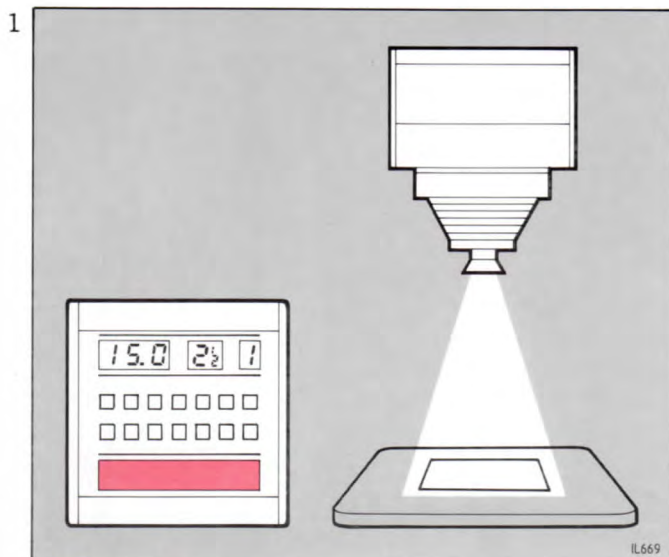


Press 'memory' (note 2).

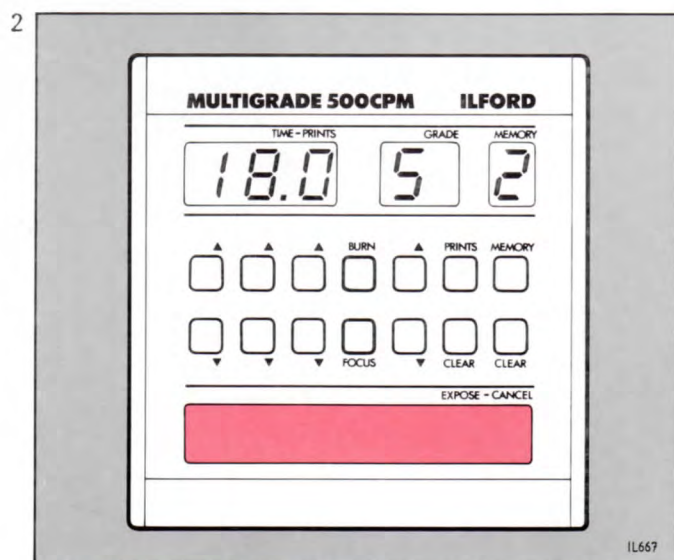
IMPORTANT NOTES

- 1 Main exposure. This will become memory '1'.
- 2 Memories '2' to '9' (maximum) for additional exposures.
- 3 Repeat operations 2 and 3 until the required number of memories have been stored. Return to memory '1' by pressing 'memory' then 'expose-cancel'.
- 4 Shade paper as required. Repeat operation 2 until the last of the stored memories has been run. Two audible signals are given and the control unit returns to memory '1' ready to run the sequence again.

USING



Expose a sheet by pressing 'expose-cancel'.



Press 'expose-cancel' to start memory '2' (note 4).

MID-TONE DENSITY

ILFORD MULTIGRADE 500



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.20

Red Negative

Cyan Printer

.30

M

Green-Filter Negative

.50

.70

Magenta Printer

M

1.00

Y

Blue-Filter Negative

1.30

1.60

Yellow Printer

B

1.90