

Photographic Enlargers

De Vere 504 Professional Enlarger

The De Vere vertical enlarger system accepts all negative sizes from 110 to 5" x 4". It fulfils all requirements that can be demanded by the busy photographic technician.

Models:

- DVB** Bench standing with front baseboard controls. The bench 504 can print up to 50 x 60cm (20" x 24") using the appropriate lens for each negative size.
- DVW** Wall mounting with base level controls. This model can either be mounted directly on the wall and used above a suitable table or enlarging easel support, or it can be mounted onto the 504 Drop Table Assembly and then attached to the wall. The assembly comprises a simple baseboard runner unit which can be adjusted from table to floor height enabling prints up to 75 x 100cm (30" x 40") to be made vertically.
- DVF** Floor standing with integral adaptable and front of baseboard controls (illustrated) and allows large magnification to be easily printed up to 75 x 100cm (30" x 40").

Lightsources:

504 Dichromat lightsource

250 or 500W infinitely variable tungsten halogen giving fast, even illumination even at the highest magnifications.

504 Closed loop dichromat lightsource

Maintains consistent colour and density irrespective of changes of lamp or voltage. Available as 250 or 500W microprocessor controlled with keypad and memory facilities.

Black and white lightsources

Varicon - quality condenser head with Rodenstock lenses. Has 150W 240V lamp and has provision for exchanging elements and filters.

Pointsource - Varicon can be converted to a pointsource by removing the top portion of the head and replacing it with a low voltage lamp with its own power supply and dimmer unit.

Cathomag - designed solely black/white printing, the Cathomag is a high power diffused lightsource that suppresses dust and negative blemishes normally visible with a condenser lightsource.

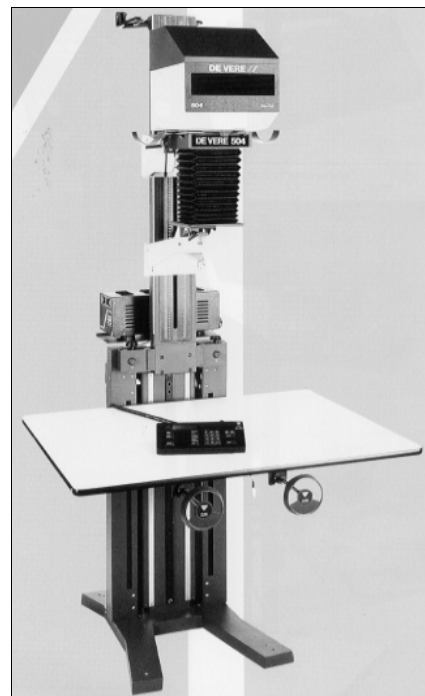
Autofocus Option:

All De Vere enlargers have an option for complete electronic auto focus. This gives full enlarger control from a dedicated keyboard with memory and direct video analyser input.

Integrated Analyser Option:

Integrated analyser systems are available to work in conjunction with closed loop heads and probe to turn each of the enlarger models into individual integrated enlarger workstations.

- E504** De Vere 504 professional enlarger - please ask for detailed information and quotation.



504 DVF



504 Dichromat



Closed Loop Dichromat



Cathomag and Varicon

De Vere 203 Professional Enlarger



The De Vere 203 vertical enlarger accepts all negative sizes from 110 to 6 x 9cm in B & W and 110 to 6 x 7cm in colour and is a cost-effective alternative to the 504.

Models:

DVB Bench standing with front baseboard controls enabling prints up to 50 x 60cm (20" x 24").

DVW Wall mounting with base level controls. This model can be mounted directly to the wall and used with a suitable table or enlarging easel support, or above a roll paper easel. Alternatively it can be mounted above the 504 Drop Table Assembly and then attached to the wall. 75 x 100cm (30" x 40") prints can be made this way.

All models are precision engineered and cast from the highest grade aluminium, stainless steel 'V' guides are fitted for exceptionally long life and scales are fitted to the column. Optical axis, tilts and negative stage tilts are fitted with click centralised single lever locks.

Lightsources:

Colour Dichromat

0-200 constant colour constant colour temperature. 250W lightsource for bright, even illumination. Requires control box.

Black and White

Varicon - a quality condenser head fitted with optical condensers by Rodenstock covering negatives from 35mm to 6 x 9cm by means of varying condenser styles. A 75mm square filter drawer is fitted.

Cathomag - designed solely black/white printing, the Cathomag is a high power diffused lightsource that suppresses dust and negative blemishes normally visible with a condenser lightsource.



Dichromat Lightsource

Iford Multigrade Head

The 203 chassis can be fitted with an Iford Multigrade Head which is supplied complete with fixing bracket, power supply, a keyboard and light chamber boxes for 35mm and 6 x 7cm. This head is a diffused lightsource giving the correct light for grades of paper from 0-5 in ½ grade steps operated through a keyboard that also acts as a timer, focus and power on/off.

Negative Carrier

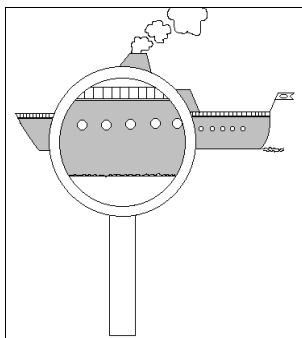
The enlarger is provided with a basic carrier plate which takes glass and glassless masks.

E505 De Vere 203 professional enlarger. Please ask for quotation

Rodagon Enlarger Lenses

A range of superb quality professional enlarger lenses.

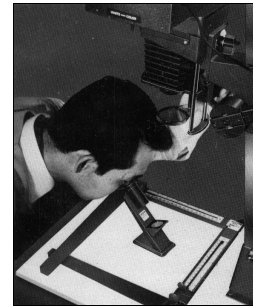
E504-3217	Rodagon lens F4/50mm
E504-3220	Rodagon lens F5.6/105mm
E504-3221	Rodagon lens F5.6/135mm
E504-3222	Rodagon lens F5.6/150mm



Enlarger Focuser

An accurate, quality but inexpensive magnifier. After the simple adjustment of setting the LPL 5421 Focus Scope the users eye it is placed on the enlarger easel so that the mirror is at the centre of the projected image. By looking through the focuser at the enlarged image of the grains of the film the enlarger can be focused exactly.

E084 Enlarger focuser

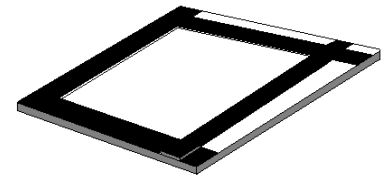


E084

Masking Frames

For top quality prints a good enlarger requires an accurate and convenient masking frame. The hinged frames are self supporting and constructed to be accurately square. Paper location is by two independently adjustable stops giving borders from 3mm to 50mm (0.12" - 2").

- P551 Masking frame 10 x 12in (254 x 305mm)
- P076 Masking frame 16 x 12in (406 x 305mm)
- P552 Masking frame 16 x 20in (406 x 508mm)
- P553 Masking frame 20 x 24in (508 x 610mm)



Darkroom Safelights

Kodak Universal

A hanging safelight that accepts two safelight filters for general darkroom illumination. The suspension chains are included. The upper indirect safelight measures 305 x 254mm (12" x 10") and the lower direct safelight 210 x 254mm (8" x 10"). Supplied without lamp and filters. Please choose filters from the Kodak list below.

- L075 Kodak hanging universal safelight with 1.8m (6 ft) of 3 core cable
- L075/B 25W 230V pearl lamp suitable for most applications.

Important note:

Please state whether bulb holder and bulb are bayonet fixing or Edison screw.



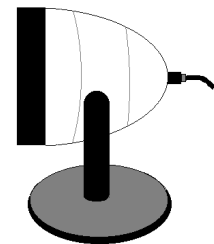
Kodak Beehive

A bench, wall or shelf mounted lamp. The lamp can be tilted to any desired position. Takes 140mm filters. Supplied without lamps and filters. Please choose from list below.

- L076 Kodak beehive safelight
- L076/B 25W 230V pearl lamp suitable for most applications.

Important note:

Please state whether bulb holder and bulb are bayonet fixing or Edison screw

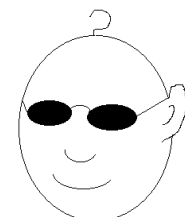


Kodak Safelight Filters

Suitable for fitting to the above safelights. Other sizes and types available on request.

- OA Light yellow for slow, blue sensitive contact materials
- 1 Red for slow orthochromatic and fast, blue sensitive materials
- 1A Light red for Kodalith orthochromatic materials

- L077-F01 type OA, 140mm (5.5") diam.
- L077-F02 type OA, 201 x 254mm (8"x10")
- L077-F03 type OA, 254 x 254mm (10"x12")
- L077-F04 type 1A, 140mm (5.5") diam.
- L077-F05 type 1A, 201 x 254mm (8"x10")
- L077-F06 type 1A, 254 x 305mm (10" x 12")
- L077-F07 type 1, 140mm (5.5mm) diam.
- L077-F08 type 1, 201x 254mm(8"x10")
- L077-F09 type 1, 254 x 305mm (10"x12")





Ilford SL1 Safelight

The Ilford SL1 safelight has an orange filter suitable for use with *all* black and white printing papers. It can be attached to a wall or used free-standing on its own swivel bracket.

L083 Ilford SL1 safelight



Ilford DL 10 Safelight

Designed for wall mounting or worktop location this unit uses the Ilford range of 10" x 8" glass safelight filters that are available in various colours for different applications. Choose a filter from the list below.

L084 Ilford DL 10 safelight

Ilford Safelight Filters

Ilford safelight filters are suitable for use with a wide range of sensitised products. All filters 8" x 10" (201 x 254mm)

L085-F01 **Safelight 902** Light brown for blue sensitive materials including Ilfospeed, Multigrade and Ilford nuclear research emulsions..

L085-F02 **Safelight 904** Dark brown for fast, blue sensitive materials such as EM film.

L085-F03 **Safelight 907** Dark green for very slow panchromatic materials.

Other colours available on request.



Film Drying Cabinets

The Marrutt range of film drying cabinets are strongly constructed from zinc and epoxy coated steel making them resistant to scratching and corrosion. The internal construction is of stainless steel and the units are fitted with a *TURBOFLOW* air system that is filtered to a 96% efficiency. They are supplied complete with no hidden extras. The model 36/35 will accept 12 full length 35mm films completely extended and will also accept the 220 film length of 1625mm. A certain amount of cut film can also be accommodated. For larger amounts of cut film the model 80 is recommended.

Dimensions:

Model 36/35 203cm High x 36cm Wide x 36cm Deep

Model 80 175cm High x 63cm Wide x 57cm Deep

D124 Film drying cabinet Model 36/35 240v

D124/1 Film drying cabinet Model 36/35 110V

D125 Film drying cabinet Model 80 240v

D125/1 Film drying cabinet Model 80 110v

Important Note:

The drying cabinets contain high efficiency **filter elements** which must be checked and replaced if necessary every 6 months.

D124/F Filter for model 36/35 cabinet

D125/F Filter for model 80 cabinet



Ilfolab Print Dryer

Designed for use with all resin coated papers the Ilfolab 1250 dryer produces a very high quality finish on all Ilfospeed RC Deluxe, Multigrade IV RC Deluxe RC Xpress and Multigrade Rapid resin coated materials with a throughput of 400 8" x 10" prints/hour.

It has a maximum paper width of 20" (51cm) and the prints are dried by infra-red, fan assisted heaters for uniform drying with high efficiency. The print transport speed is variable for greater control of a wide range of drying conditions and materials.

D065 Ilfolab 1250 Dryer

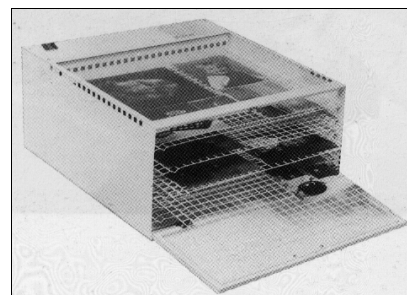


R.C. Paper Dryer

The Marrutt RC2000 is a professional *flat* warm or hot air print dryer that has been specially designed for drying resin coated prints or bromides. It has six mesh shelves 26" x 21" (66 x 53.3cm) and will hold a total of **72** prints 7" x 5" (17.8cm x 12.7cm), **48** prints 8" x 6" (20.3cm x 15.25cm) or **36** prints 10" x 8" (25.4cm x 20.3cm). A toughened glass top is incorporated to enable you to see when your prints or film are ready. This dryer has the advantage that no contact is made with the emulsion side of the paper during the drying cycle.

D123 R.C. Paper dryer model RC2000 240v

D123/1 R.C. Paper dryer model RC2000 110v



Anti-Static Brushes "Statbrush"

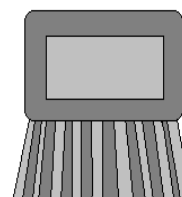
A very effective range of anti-static brushes that need no energising, are non-radioactive and have an indefinite life. Using a unique conductive fibre mixed with natural hair, they can clean sensitive surfaces of static together with dust and debris.

The fibre length of 30mm is critical and ensures top performance and maximum anti-static effect. They are easily cleaned in either soapy water or alcohol. Useful in all manner of laboratory procedures including microscopy, photography and maintaining CD's.

A077 35mm width "Statbrush 2000" each

A078 70mm width "Statbrush 2000" each

(Larger sizes on request)



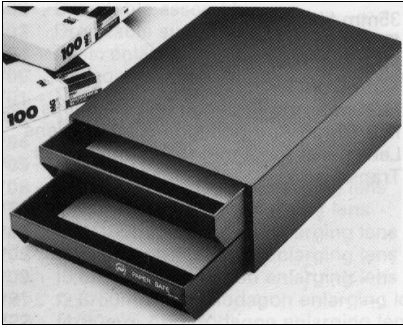
Zerostat Anti-Static Gun

Anti-static generator for neutralising static charges of either polarity on any insulating surface. Ideal for easing many problems in the photographic laboratory, to reduce the risk of EM grids jumping out of boxes and to eliminate or reduce the block/section charging effects during ultra or cryomicrotomy.

G083 Zerostat™ gun



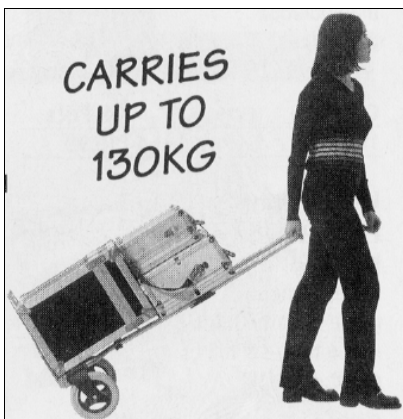
Paper Safes



Kindermann paper safes are light proof and are available in single or twin drawer versions. The smaller size will accept paper up to 20 x 25cm. The larger version will accept paper up to A4 and 24 x 30cm. The Kindermann paper safes are suitable for all photographic papers.

- P189** Paper safe small, *single* drawer
P190 Paper safe small, *twin* drawer
P191 Paper safe large, *single* drawer
P192 Paper safe large, *twin* drawer

Folding Trolleys



Tough, heavy duty, collapsible, folding trolleys ideal for moving photographic or other equipment. They can be erected and collapsed in less than 10 seconds and their compact size (55mm thick when fully folded), means they are easily stored or carried. Not to be confused with inferior high street budget products.

Features:

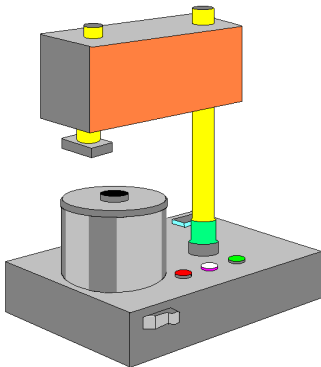
- Shock absorbent puncture proof tyres
- Strap fixing system to give load security
- Lightweight construction
- Choice of 2 models - standard or long

- T521** Standard trolley *Weight 4.5Kg, Platform size 480 x 220mm*
T522 Long trolley *Weight 5.1Kg, Platform size 480 x 400mm*

Autodip for EM Autoradiography

A quality, precision instrument to give an automatic procedure for uniform coating of slides with autoradiographic emulsion.

A removable stainless steel water bath is thermostatically controlled to maintain 32°C indicated by a pilot light. The controlled temperature of the emulsion and the precisely selected speed of the withdrawal cycle (64 or 48mm/min), gives the correct and reproducible thickness of the emulsion.



Specifications:

- Power 120v or 220/240v 50/60Hz 65 Watt
 Water Bath 100mm dia. x 110mm high (stainless steel).
 Temperature 32°C factory set (adjustable from 25° to 45°C)
 Withdrawal Speed 48 or 64mm/minute selectable by switch
 Dipping Speed approx. 120mm/minute
 Dimensions 165mm Wide x 250mm Long x 400mm High

- P181** Autodip 240v
P181/1 Autodip 110v

Cut Film for Electron & Light Microscopy

Kodak EM Film 4489

4489 is a slow medium/film with an extremely fine grain blue sensitive emulsion and is ideal for most routine TEM applications. Coated on a 0.17mm (0.007") polyester base overcoated with a hardened gelatin to reduce abrasive susceptibility. The film should be used under a red or brown safelight filter (1A, OA, or OC) and a developer such as Kodak D-19 is recommended. Speed and contrast can be varied by altering developing time or developer formulation.

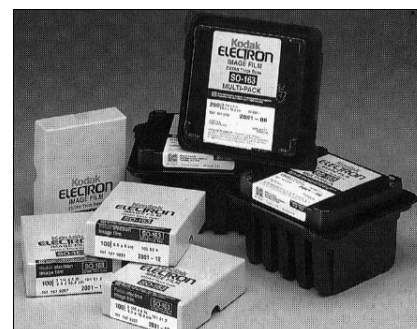
P083	Kodak 4489 6.5 x 9cm	box of 100 sheets
P083/M	Kodak 4489 6.5 x 9cm	250 sheet Multipack
P550	Kodak 4489 3¼" x 3 ⁵ / ₁₆ " (83 x 84mm)	box of 100 sheets
P082	Kodak 4489 3¼" x 4" (83 x 102mm)	box of 100 sheets
P082/M	Kodak 4489 3¼" x 4" (83 x 102mm)	250 sheet Multipack
P126	Kodak 4489 7 x 7cm	box of 100 sheets
P084	Kodak 4489 9 x 12cm	box of 100 sheets



Kodak EM Image Film SO-163

A faster film than 4489 (double) and is useful in high resolution electron microscopy. Applied to a 0.17mm (0.007") polyester base and coated with a hardened gelatin to increase abrasion resistance. Use safelights as for 4489.

P086	Kodak SO-163 6.5 x 9cm	box of 100 sheets
P086/M	Kodak SO-163 6.5 x 9cm	250 sheet Multipack
P085	Kodak SO-163 3¼" x 4" (83 x 102mm)	box of 100 sheets
P085/M	Kodak SO-163 3¼" x 4" (83 x 102mm)	250 sheet Multipack



TEM Roll Film

Agfa 70mm CSR film suitable for TEM cameras (base thickness 0.1mm)

P082/2 Agfa CSR roll film 70mm x 43m

Eastman 35mm fine grain positive film is the closest replacement for 35mm unperforated TEM camera film (now discontinued).

P091 Eastman perforated fine grain film 35mm x 30m



Kodak T-Max Professional Film

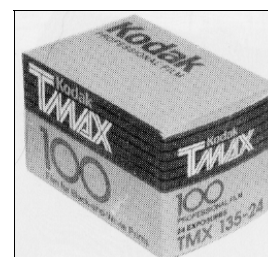
T-Max 100 An outstanding high definition fine grained film for photomicrography giving excellent quality enlargements (25x plus). Recommended for copying black and white photographs and making B & W prints from colour transparencies. Expanded exposure latitude.

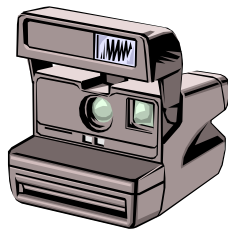
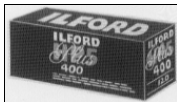
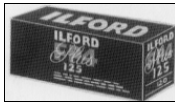
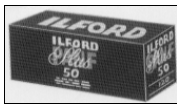
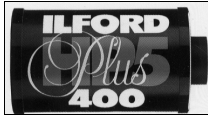
T-Max 400 A high speed film for use in many areas of biomedical and scientific work especially fluorescence microscopy.

Use developers T-Max, D76, Microdol-X in total darkness.

P269 Kodak T-Max 100 35mm 36 exp pk of 5
P270 Kodak T-Max 100 35mm x 100ft

P267 Kodak T-Max 400 35mm 36 exp pk of 5
P268 Kodak T-Max 400 35mm x 100ft





For Polaroid film for MicroSLR and Macro 5 SLR cameras see page 11.11

Roll Film Suitable for SEM Imaging

35mm Camera Film all perforated (unperforated no longer available).

- P091 Kodak fine grain positive film 35mm x 30m
- P120 Ilford PAN F 35mm x 36 exposures, pack of 10 rolls
- P121 Ilford PAN F 35mm x 17m
- P122 Ilford FP4 35mm x 36 exposures, pack of 10 rolls
- P123 Ilford FP4 35mm x 17m
- P124 HP5 35mm x 36 exposures
- P125 Ilford HP5 35mm x 17m

Kodak Technical Pan Film 2415

A film very suitable for photomicrography having a very flat response over the visible spectrum with a high resolving power and fine grain. It can be developed to a wide range of contrasts.

- P092 Kodak technical pan film 35mm x 36 exposures

120 Format Film

A range of 120 roll films suitable for recording SEM images.

- P115 Ilford PAN F pack of 10 rolls
- P116 Ilford FP4 pack of 5 rolls
- P117 Ilford FP4 pack of 50 rolls
- P118 Ilford HP5 pack of 10 rolls
- P119 Ilford HP5 pack of 50 rolls

Colour Reversal Film

- P127 Kodak Ektachrome 64 35mm x 36 exposures
- P128 Kodak Ektachrome 200 35mm x 36 exposures

Polaroid Film

Black and White

High speed general purpose print film - prints do not require coating

- P135 Polaroid type 667 film pack 3" x 4" (8 exposure)
- P133 Polaroid type 87 film pack 3" x 3" (8 exposure)

Positive and negative - negative requires brief clearing in sodium sulphite solution, washing and drying

- P129 Polaroid type 665 film pack 3" x 4" (8 exposure)
- P131 Polaroid type 55 sheet film 4" x 5" (20 exposure)

Polaplan - wide tonal range but print requires coating

- P130 Polaroid type 52 sheet film 4" x 5" (20 exposure)
- P134 Polaroid 552 pack film 4" x 5" (8 exposure)

Wide tonal range needing no coating

- P139 Polaroid type 53 sheet film 4" x 5" (20 exposures)
- P140 Polaroid type 553 pack film 4" x 5" (8 exposures)

Colour

High contrast with 4 stops latitude

- P141 Polacolor type 668 pack film 3" x 4" (8 exposure)

Instant black and white for 35mm slide making film - continuous tone transparency film

- P142 Polaplan CT B&W (36 exposure)

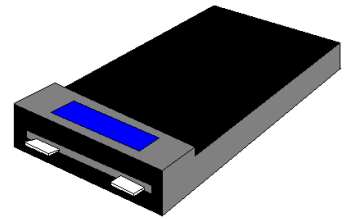
Instant high contrast black and white transparency film

- P143 Polagraph HC B&W (12 exposure)

Polaroid Film Holder

Pack film holder type 550 to accommodate pack films types 553, 554, 559 and 572 (4" x 5"). It has a dark slide to protect the film when the cassette is removed from the camera.

P 147 Polaroid type 550 (4" x 5") pack film holder



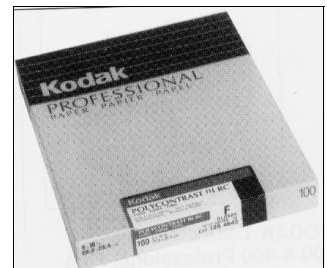
Photographic Papers

The following papers are normally stocked in **boxes of 100 sheets**. Other sizes and grades may be available on request.

Kodak Kodabrome 11 RC F

A fast paper now in three grades for machine and tray printing. It has a resin coated base for rapid processing and drying and a neutral black image tone. Use light amber safelight OC and Kodak recommend Dektol developer.

- P094** Kodak Kodabrome 11 RC F 12.7 x 17.8cm grade 1
- P095** Kodak Kodabrome 11 RC F 12.7 x 17.8cm grade 2
- P096** Kodak Kodabrome 11 RC F 12.7 x 17.8cm grade 3
- P098** Kodak Kodabrome 11 RC F 20.3 x 25.4cm grade 1
- P099** Kodak Kodabrome 11 RC F 20.3 x 25.4cm grade 2
- P100** Kodak Kodabrome 11 RC F 20.3 x 25.4cm grade 3

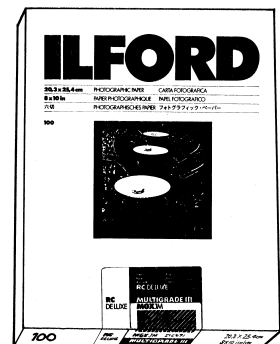


Ilford Multigrade 3 RC Deluxe

This system offers variable contrast paper with 'whiter' whites and 'blacker' blacks. The system offers high print quality and a full contrast range from a single paper. There is an impressive eleven distinct contrast grades spaced in half grade steps from 0 to 5 is achieved by the selection of filters. For a grade 3 contrast filter no. 3 is selected, no. 4 filter for contrast 4 etc.

With eight of the eleven filters the paper has exactly the same effective speed which means that exposure times do not differ. The three grades that do differ are 4, 4½ and 5 and all that is required is to double the exposure time or open the aperture one stop.

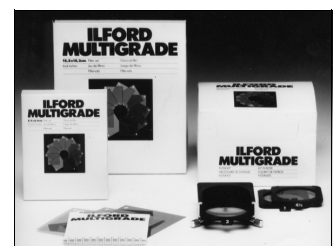
- P103** Multigrade 3 RC Deluxe 12.7 x 17.8cm
- P103/1** Multigrade 3 RC Deluxe 16.5 x 21.6cm
- P104** Multigrade 3 RC Deluxe 20.3 x 25.4cm



Ilfospeed Multigrade 3RC Filters

This is a below the lens fit that converts black and white enlargers for printing Multigrade 3 RC Deluxe papers. The kit is complete with mounted filters for all contrast grades in half grade steps, a filter holder and a red safelight filter.

L086 Multigrade 3 RC filters below lens kit

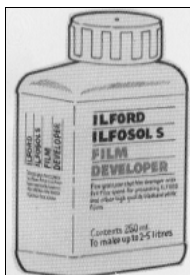
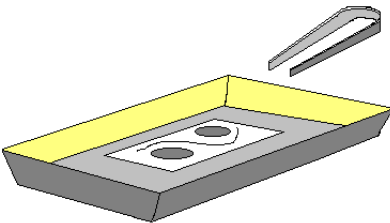
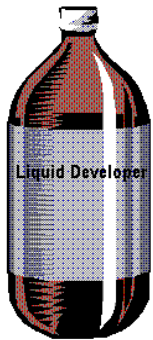
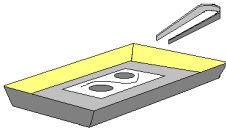
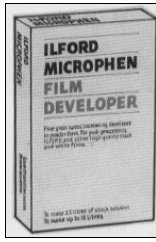
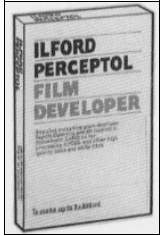
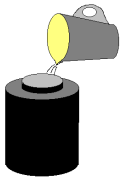


Emulsions for Autoradiography

Due to the limited shelf life of these emulsions (which should be stored at 5°C) stocks are not normally held but ordered on request. They should not be frozen.

- P144** Ilford nuclear emulsion G5 50ml
- P145** Ilford nuclear emulsion K5 50ml
- P146** Ilford nuclear emulsion L4 50ml
- P291** Ilford nuclear emulsion K2 50ml





Processing Chemicals

Black and White Powder Developers

Ilford ID-11 the standard developer for fine grain results with PAN F, FP4 and HP5 films without loss of film speed.

D137 Ilford ID-11 powder developer to make 2.5 litre

D134 Ilford ID-11 powder developer to make 5 litre

Ilford Microphen gives an effective emulsion speed increase of half a stop without sacrificing the fine grain characteristics of the film.

D092 Ilford Microphen powder developer to make 2.5 litre

Ilford Perceptol for extra fine grain with PAN F and FP4 films and can be used with HP5 films for subjects having excessive contrast.

D135 Ilford Perceptol powder developer 1 litre

Kodak D-19 a high contrast, high capacity, clean working dish and tank developer.

D066 Kodak D-19 powder developer 800gm to make 5 litre

Black and White Liquid Developers

Kodak Technidol an extremely fine grain, superb image quality developer formulated for giving pictorial contrast when using Technical Pan film in all formats.

D136 Kodak Technidol developer to make 4 x 600ml

Kodak T-Max Liquid for use with T-Max and Tri-X Pan films. A liquid concentrate for bringing out the best from T-Max film.

D196 Kodak T-Max developer liquid makes 2 x 1 litres

D197 Kodak T-Max developer liquid makes 5 litres

Ilfospeed an extremely fast working developer for use with Ilfospeed RC Deluxe paper. At a working solution of 1 + 9 an image appears after only six seconds and development is complete in 35-60 seconds.

D107 Ilfospeed developer 5 litres to make 50 litres

D108 Ilfospeed developer 500ml to make 5 litres

Ilfospeed Multigrade an extremely fast working developer for use with Multigrade 3RC Deluxe and Multigrade FB papers.

D109 Ilfospeed Multigrade developer 1 litre to make 10 litres

D109/1 Ilfospeed Multigrade developer 5 litres to make 50 litres

Ilford Phenisol for dish and deep tank development of FP4 Plus sheet, high contrast Ilford, Ortho and specialist Ilford Aerial films. Rapid development is possible at normal 1 + 4 dilution.

D144 Ilford Phenisol developer to make 5 litres

Ilford PQ Universal a very economical 'standard' paper developer designed for use with Ilfobrom Galerie FB and Multigrade IV FB as well as Ilfospeed RC Deluxe. At a working solution of 1 + 9 paper development is complete in 2 minutes and at 1 + 4 in 45-90 seconds. It is also recommended where a slower acting developer is needed for Multigrade IV. It has excellent keeping qualities as stored concentrate and in the dish.

D145 Ilford PQ Universal developer 5 litres

D145/1 Ilford PQ Universal developer 1 litre

Ilford Ilfosol S a universal developer for all B & W films maintaining fine grain with full film speed. Diluted for use at 1 + 9 Ilfosol S is economical with short processing times. At 1 + 14 dilution it has a slight compensating effect with films of contrasty subjects.

D170 Ilford Ilfosol S developer 250ml

Agfa Studional recommended for developing Agfa Scientia EM Film 23 D 56 and other fine grain B & W films.

D146 Agfa Studional concentrate 3 x 1 litres to make 3 x 16 litres

Stop Baths

Iford IN-1 a liquid concentrate to be diluted 1 + 39. It stops development immediately as well as extending the working life and maintaining the pH level of the fixer.

S134 Iford IN-1 stop bath 500ml to make 10 litres

Kodak Max Stop - Stop bath with indicator designed to stop development instantly and extend the life of the working solution. It minimises dichroic fog and removes hard water development scum. Yellow when mixed it turns mauve when exhausted.

S211 Kodak indicator stop bath



Fixers

Unifix a sodium thiosulphate fixer with hardener supplied in powder form and recommended for films and papers.

F074 Unifix to make 5 litres

F074/1 Unifix powder 500gm to make 5 litres

Ififix II an economical non-hardening fixer for B & W papers and films. Can also be used for graphic arts and X-ray materials.

F169 Ififix powder fixer 5 litres to make 50 litres

Iford Paper Fixer Liquid is the same formulation as the Ifospeed fixer it replaces. It is a rapid acting fixer supplied as a liquid concentrate. Designed for use with Ifospeed RS Deluxe, Multigrade IV RC Deluxe and Multigrade RC Xpress resin coated papers. At a 1 + 3 dilution fixing is complete in 30 seconds.

F100 Iford paper fixer liquid 5 litres to make 20 litres

Iford Hypam Liquid a non hardening rapid fixer diluted either 1 + 4 or 1 + 9 depending on speed of fixing action required. Suitable for fixing films and papers.

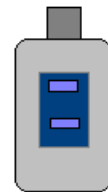
F168 Iford Hypam liquid fixer concentrate 5 litres

Agfa G328 Fixer a general purpose fixer for films and papers.

F179 Agfa G328 fixer 5 litres to make 25 litres

Fixer Testing Strips to monitor the active strength of the fixer bath.

F182 Fixer testing strips pack of 100



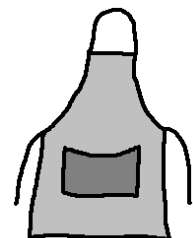
Wetting Agents

Photoflo is a concentrated liquid to decrease water surface tension in the wash so minimising water marks and drying streaks on the film. Also promotes rapid drying.

W081 Kodak Photoflo wetting agent 1 litre

Ifotol is a wetting agent added to the processed films final rinse to reduce surface tension. This aids drying time and prevents drying marks on the surface.

W084 Iford Ifotol wetting agent 1 litre



Darkroom Apron

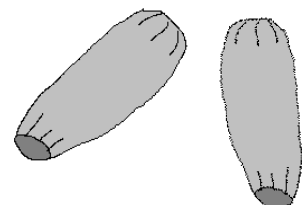
A tough chemical resistant vinyl apron with a large front pocket. Ideal as immediate protection over clothing or additional protection for a lab coat.

A076 Darkroom apron

Polythene Oversleeves

Made from strong white Polythene, the oversleeves are approx. 17" (40cms) long and are elasticated at both ends for comfort and security. They are the perfect protection for sleeves when handling reagents harmful to cloths.

P217 Polythene oversleeves pack of 100





35mm Film Retriever

This simple tool enables the film's leader to be retrieved from inside a 35mm cassette without the use of a darkroom or changing bag.

P182 35mm film retriever



Cassette End Cap Remover

This tool is designed to remove crimped and push-fit 35mm film cassette end caps quickly and easily in total darkness.

P183 Cassette end cap remover



Thermometer Photographic

Certified spirit thermometer guaranteed accurate to 0.5°F (0.3°C). Dual scale with permanent markings, Range 56 – 86°F and 10 – 30°C. Housed in a plastic carrier.

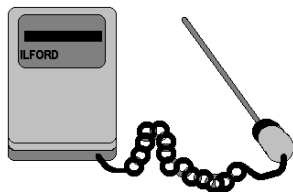
T142 Photographic thermometer



Thermometer Dial Type

Easy to read dial type thermometer scaled both in Centigrade and Fahrenheit over the range -20°C to +60°C (0° to 130°F) with widely spaced calibrations. The head is hermetically sealed and has an accuracy of 1°C. A sliding clip fitted to the sensing rod conveniently hooks to the side of a tank or beaker.

T120 Dial type thermometer



Thermometer Digital

The Ilford DT30 has an operating range of -50°C to 150°C to an accuracy of 0.3°C. A four digit LED display gives a stabilised reading after 15 seconds immersion of the probe in dish, bottle or graduate.

Uses a 9V battery.

T300 Digital thermometer DT30

T300/B Battery for digital thermometer DT30 pack of 5



Developing Dishes

Sets of three plastic developing dishes

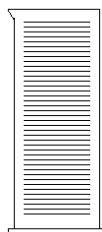
D067 Plastic developing dishes (set of 3) 10" x 12" (25.4 x 30.5cm)

D223 Plastic developing dishes (set of 3) 12" x 16" (30.5 x 40.5cm)

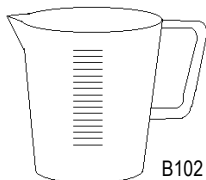
Measuring Beaker

Plastic graduated beaker 1200ml capacity. Ideal for measuring and transfer of photographic chemicals.

B148 Graduated beaker 1200ml



B148



B102

Graduated Beaker

Polypropylene graduated beaker suitable for photographic chemicals.

B102 Beaker 2 litre capacity

B123 Beaker 500ml capacity



Air-Vac Collapsible Bottles

Useful containers especially manufactured for storing expensive colour developers and other chemicals that deteriorate rapidly by oxidation. As the liquids are used the bottle is compressed to exclude any air remaining above the liquid.

B094 AIR-VAC collapsible bottle 1 litre

B095 AIR-VAC collapsible bottle 3.8 litres

Funnels

Polyethylene for transfer of liquids.

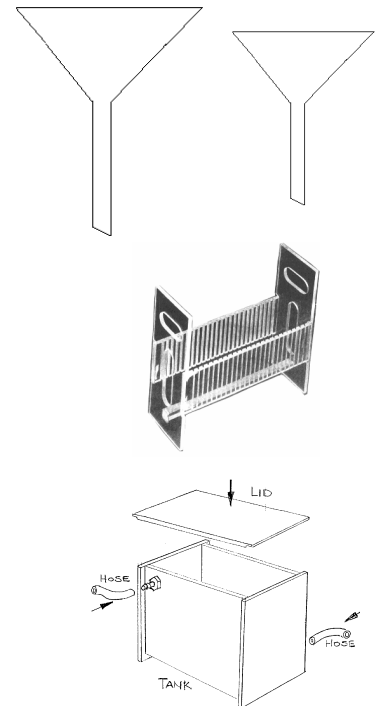
F075 Funnel 8" (20.3cm) diameter

F076 Funnel 6" (15.25cm) diameter

Polypropylene, tolerant of strong acids and alkalis and most organic solvents – heat resistant.

F083 Funnel 37mm dia.

F084 Funnel 65mm dia.



Film Racks and Washing Tank

Clear **plastic racks** securely holding 27 cut films in a vertical position. Angled slots put a curve in the films allowing them to be gripped securely and safely moved whilst developing or drying without risk of damage to the emulsion. All the racks are 18.5cm long and 4mm wider than the films.

The **washing tank** is made from black plastic and has inlet and outlet connections that maintain a constant water level during the washing process.

D152 Rack for 6.5 x 9cm films

D153 Rack for 3¼ x 4in films

D154 Rack for 9 x 12cm films

W102 Washing tank

Cut Film Developing Racks

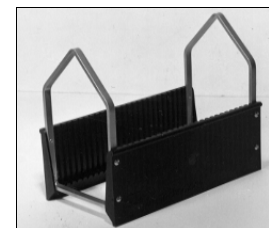
Robust and durable glass reinforced nylon racks with slots for holding 25 sheets of cut film.

D056 for film 2½" x 3½" (64 x 85mm) and 6½ x 9cm

D057 for film 3¼" x 3¼", 3¼" x 4", 3¼" x 4¼" and 9 x 12cm

D138 for film 90 x 120mm

D091 Stainless steel tongs for lifting developing racks from tank

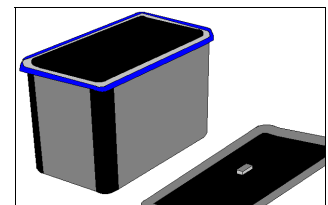


Cut Film Developing Tank

Pressure moulded plastic developing tank with floating lid.

D171 Cut film developing tank 10 x 12.5cm

D090/P Cut film developing tank 12.5 x 17.5cm Takes racks D152 & 153



35mm Developing Tank and Lid

Highest quality stainless steel film processing equipment to take 36 exposure 35mm film. The reels are of the easy load type with a strong centre clip. The tanks are fitted with special baffle lids to ensure rapid filling and emptying of solutions. Tight fitting caps allow inversion without leaks.

D068 Developing tank 35mm

D069 Developing tank to take 4 x 35mm films

D071 Reel 35mm, 36 exposure



Film Developing Tank Super System 4

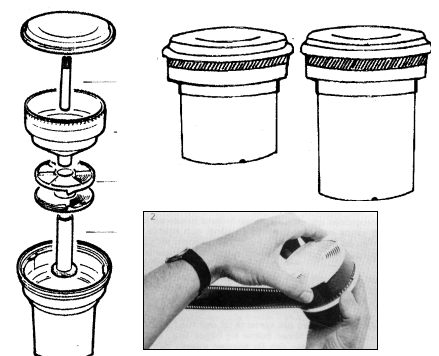
A plastic tank by Paterson with lid equipped with an auto load reel for 35mm, 120, 126, 127 or 220 film. Features include pressure relief valve – no chemical spray and an anti-swirl funnel. Accepts 300ml in 3 seconds!

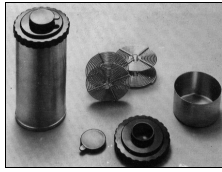
D110 Film developing tank complete

D139 Film developing tank – 2 reel model

D139/S Spare reel for above

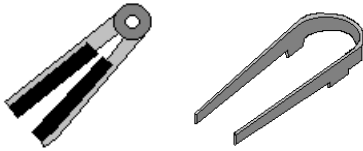
H062 Film washer hose – tap to tank





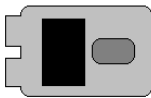
Stainless Steel Developing Tank & Spiral 120mm

- D168 Stainless steel developing tank 120mm
 D169 Stainless steel spiral 120mm
 F183 Film Loader



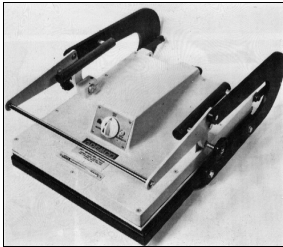
Film Wiper and Print Tongs

- P062 Film wiper rubber blades, plastic handle
 P061 Print tongs – plastic



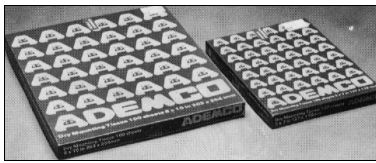
Film Clip Set

A pair of plastic film clips one weighted and one unweighted to ensure films hang straight during drying. Both clips have metal pointed pins for secure fixing.
 C134 Film clip set



Dry Mounting Press

A robust soft bed machine with adjustable pressure control and self-levelling platen. Maximum mount width 1065mm (42in) by any length. Capillary tube thermostat for temperature control. Dimensions: 490mm wide x 735mm long x 235mm high.
 Weight: 37.5Kg 110 or 230V (please specify) 1600W
 P077 Dry mounting press



Dry Mounting Tissue

Available in two sizes:

- P079 Dry mounting tissue 203 x 254mm box of 100 tissues
 P080 Dry mounting tissue 127 x 178mm box of 100 tissues



Tacking Iron

An electrically heated iron for tacking dry mounting tissue onto the backs of photographic prints 25W.

- P078 Tacking iron 230V
 P078/1 Tacking iron 110V
 P081 Tacking iron stand



Spray Mount Adhesive

An aerosol spray adhesive for mounting photographic prints etc. The adhesive remains tacky and the photograph can be removed at any time.

- A052 Spray mount adhesive 391gm (414ml)

Photo Mount Adhesive

An aerosol spray adhesive for permanent mounting of photographic prints onto paper or card.

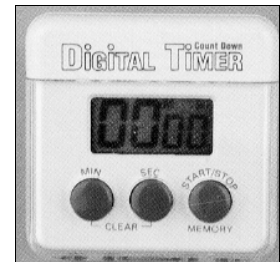
- A055 Photo mount adhesive 268gm (400ml)

Timers

Countdown Timer

Digital timer measuring elapsed time from 1 second to 99 minutes. Quartz battery operated clock with setting keys and an end of period audible alarm that will sound for 60 seconds. With pocket clip, bench stand, magnetic attachment and battery.

C173 Countdown timer



Dual Channel Timer

Digital countdown, count up 2-channel timer with large display which will indicate either channel via separate push buttons. Both channels count up or down from 1 second to 24 hours and have an audible alarm at the end of the period. The case includes a stand, clip and magnet attachment. Supplied with 1.5v AAA battery. Dimensions 90x67x19mm Weight 68gm. MCAL-TM calibration certificate available.

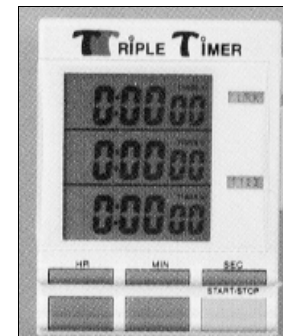
T353 Dual channel timer



Triple Channel Timer

Digital reading, 3 separate timing units with display, count up, count down from 1 second to 20 hours. Each unit has a different audible alarm at the end of the counting period. 12/24 hour clock and memory presets are also selectable. Supplied with 1.5v AAA battery.

T354 Triple channel timer



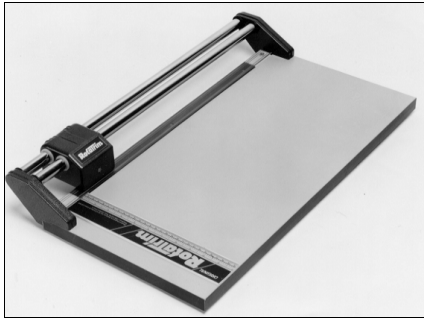
Twin Outlet Darkroom Controller/Timer

Two separate outlet receptacles can control an enlarger or printer and safelight by a combination time/focus switch. Each outlet has 750 watts capacity but can be used with a relay for heavier loads. The 6½" diameter face has easy to read numerals and is illuminated by phosphor fluorescence. It shows minutes and seconds in complete darkness. The 60-minute time range can be set in minutes for developing and seconds for enlarging control. The analogue display permits quick setting by seconds, minutes or combinations of seconds or minutes.

T519 Twin outlet darkroom timer 210/250V 50Hz

T520 Twin outlet darkroom timer 115V 60Hz





Rotatrim Print Trimmers

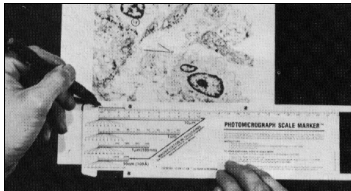
A comprehensive range of this popular professional rotary cutter/trimmer that cut varying materials with precision from the lightest tissue papers and film up to 2mm card. Self-sharpening tungsten steel rotary cutter wheel.

- R066** Rotatrim 31cm (12in) cut
- R067** Rotatrim 39cm (15.5in) cut
- R068** Rotatrim 45cm (17.5in) cut
- R069** Rotatrim 62cm (24in) cut
- R082** Rotatrim 77cm (30in) cut
- R083** Replacement cutting wheel for all models

Art Knife

This knife incorporates a strong nylon handle and a finely machined aluminium locking mechanism. Supplied with No. 11 blade

- A053** Art knife
- A054** 7 blade dispenser containing No. 11 blades



Photomicrograph Scale Marker

Precision slide rule designed to provide a rapid and accurate method of drawing scale marks on light and electron micrographs. Will apply any size of scale mark at any magnification with no formula to remember. Constructed from high quality rigid plastic. Printed in English, German and French. Supplied in protective pouch 3" x 10".

- S080** Photomicrograph scale marker

Ultrastructure Size Calculator

Gives readings of sizes on prints per millimetre in μm , nm and Ångströms.

- C093** Ultrastructure size calculator

Lens Pen

Lenspen MiniPro safely removes smears and contamination from small photographic lenses using the 'dab on' tip which dispenses the right amount of the unique non-liquid cleaning compound in just the right place. It reduces static charge build-up and will not spill or dry out. This quality product is manufactured in a "clean room" environment to ensure MiniPro is free of any contamination.

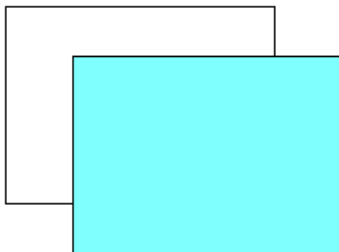
- L061** Lens pen
- L062** Lens pen pack of 10



Film and Negative Storage Envelopes

Translucent paper or clear acetate envelopes suitable for plate, film or print storage and simply referred to as 'Negative Envelopes'. Dimensions are given as length x width, pack sizes are of 1000 except **N055** which is a pack of 500.

- N052** Negative envelopes - translucent $4\frac{5}{8}" \times 3"$
- N053** Negative envelopes - translucent $3\frac{3}{4}" \times 2\frac{3}{4}"$
- N054** Negative envelopes - translucent $5" \times 4"$
- N055** Negative envelopes - translucent $10" \times 8"$
- N057** Negative envelopes - clear acetate $4\frac{5}{8}" \times 3\frac{1}{2}"$
- N058** Negative envelopes - clear acetate $5\frac{1}{4}" \times 4\frac{1}{4}"$
- N059** Negative envelopes - clear acetate $3\frac{3}{4}" \times 2\frac{3}{4}"$



NEGA-FILES for Negative, Print and Microscope Slide & 35mm (2"x2") Slide Storage

NEGA-FILES are a crafted wooden modular storage system enabling you to design your storage to suit your needs and provide furniture quality appearance. Can be bench or floor mounted and is fully expandable and stackable. The system accepts many sizes of negatives and prints and each NEGA-FILE unit is fashioned from **solid, seasoned hardwood** and finished in a lustrous natural tone. The frames and drawer fronts are solid mahogany, lock corner or rabbit joint construction and the hardware appointments include brass plated box corners and sturdy escutcheon pins for the neat stacking of one on another. There are also brass plated combination drawer pulls and card holders. Each unit is 13¼" wide x 18" long (33.65 x 45.7cm).

These units are *immune to fungus attack* and are thus ideal for film microscope slide or 35mm slide storage. Automatic 'stops' prevent drawers from being completely opened without an extra downward motion. Cabinet locks furnished on special order.

Units for EM Negatives and Prints

NEGA-FILE for 70mm Negatives and Prints

A sectional file accepting up to 3000 - 70mm negs. and prints. Can take 3000 - 2¾" x 3¾" glassine envelopes or transparent acetate sleeves. S168/A and S168/G include index guides and follower blocks to keep contents upright at all times. Unit is 5" high (12.7cm).

- S168** NEGA-FILE for 70mm negs and prints **file only**
- S168/A** NEGA-FILE as above but including 3000 acetate sleeves
- S168/G** NEGA-FILE as above but including 3000 glassine sleeves

NEGA-FILE for 4" x 5" Negatives and Prints

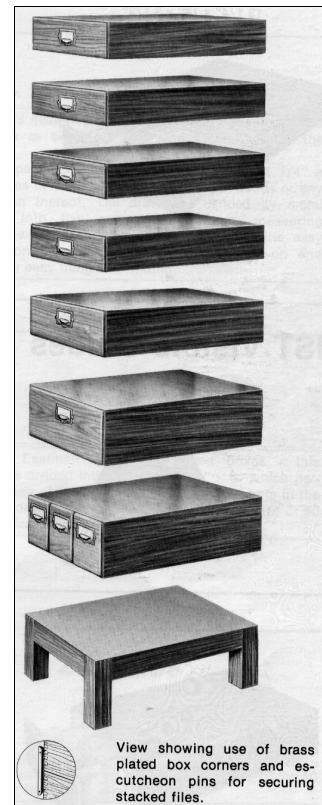
A single drawer two compartment section accommodating up to 1500 - 4" x 5" negs and prints. Can take 1500 glassine envelopes or transparent acetate sleeves. S169/A and S169/G include index and guides. The unit is 6½" high (16½cm).

- S169** NEGA-FILE for 4" x 5" negs and prints **file only**
- S169/A** NEGA-FILE as above but including 1500 acetate sleeves
- S169/G** NEGA-FILE as above but including 1500 glassine sleeves

NEGA-FILE for 3¼" x 4" Negatives and Prints

A single drawer two compartment section accommodating up to 1800 negatives and prints. Can take 1800 printed glassine envelopes or transparent acetate sleeves. S170/A and S170/G include index and guides. The unit is 6½" high (16½cm).

- S170** NEGA-FILE for 3¼" x 4" negs and prints **file only**
- S170/A** NEGA-FILE as above but including 1800 acetate sleeves
- S170/G** NEGA-FILE as above but including 1800 glassine sleeves



View showing use of brass plated box corners and escutcheon pins for securing stacked files.

Units for Light Microscope Slides

NEGA-FILE for 76 x 26mm microscope slides - sectional

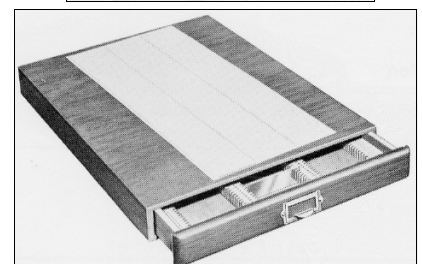
This unit accommodates 250 microscope slides in numbered slots. A removable index is provided. The unit is 3½" high (8.9cm).

- S171** NEGA-FILE for microscope slides

NEGA-FILE for 76 x 26mm Microscope Slides

Accommodates approx. 1200 microscope slides - non-slotted. 3½" high (8.9cm).

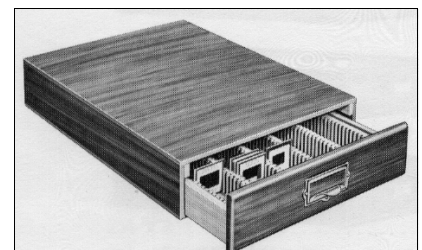
- S172** NEGA-FILE for 1200 microscope slides non-slotted



Units for 35mm Slides

Accommodates 250 2" x 2" mounted slides or 750 cardboard mounts.

- S373** 35mm NEGA-FILE all slots individually numbered
- S374** Visible guides for above. Identifies each 2" x 2" slide without removal pk 100



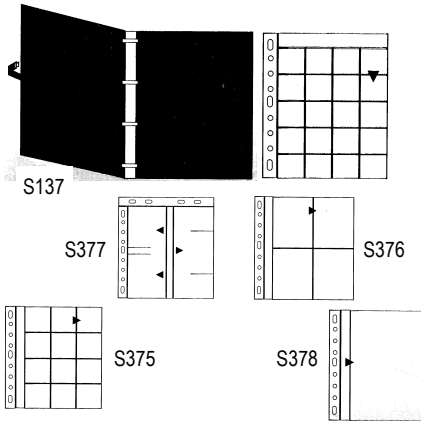
NEGA-FILE Base Unit

A strong wooden base unit to support any of the above modules in any order as a free standing stack. Solid wood finished to match the drawer units and will remain serviceable and attractive for years. The unit is 6½" high (16½cm).

- S173** NEGA-FILE base unit

S374

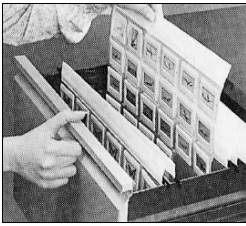




35mm Slide Library

Consists of a sturdy A4 size folder in a high grade padded PVC luxurious simulated leather grain finish with a standard ring binding and clasp. 35mm slides are stored in 20 pocket sheets made of high quality clear PVC. Pockets are so arranged that slides always stay in place and cannot fall out. The Slide Library can accommodate up to 20 sheets. A complete slide library consists of one folder with 10 sheets.

- S137** 35mm slide library with ring binding
S137/1 Additional 20 pocket sheets for S137 pack of 10
S375 12 pocket sheets for 6" x 4", 6" x 6" & 6" x 7" unmounted pack of 10
S376 4 pocket sheets for 5" x 4" & 5 1/4" x 4" pack of 10
S377 3 pocket sheets for CD's pack of 10
S378 Single A4 pockets pack of 10



35mm Suspension File Storage

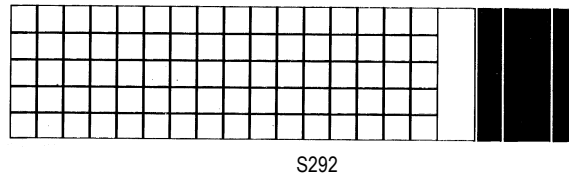
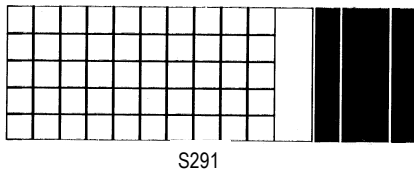
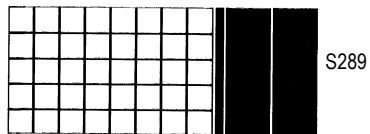
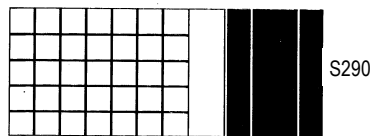
A system ideally suited to the bulk storage of slides. Each foolscap sheet is supplied with a strong metal suspension bar to fit standard filing cabinets. Made from a semi-rigid clear PVC front and back. Contains 24 pockets for 35mm slides.

- S138** 35mm suspension file storage pack of 25

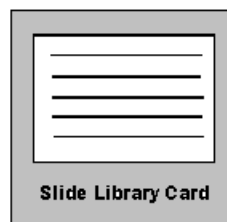
Profile 35mm Slide Wallets

Concertina style folding wallets with press-stud cover in black textured PVC.

- Identification pocket on front cover (not Profile 40)
- Numbered rows and index card (not Profile 40)



- S289** Profile wallet for 40 x 35mm slides
S290 Profile wallet for 35 x 35mm slides
S291 Profile wallet for 50 x 35mm slides
S292 Profile wallet for 80 x 35mm slides



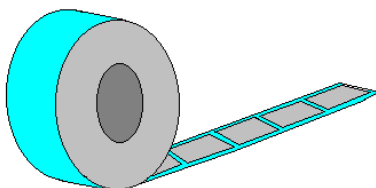
35mm Slide Library Cards

Help you locate that missing transparency 2" x 2" card with space for recording information. Fits into pocket from which the slide is taken. Pack of 100

- S293** 35mm Slide library cards

Film Storage Protective Sleeving

Polyester/acetate continuous reels clear one side, frosted the other. Easy to load and can be cut to the required length.



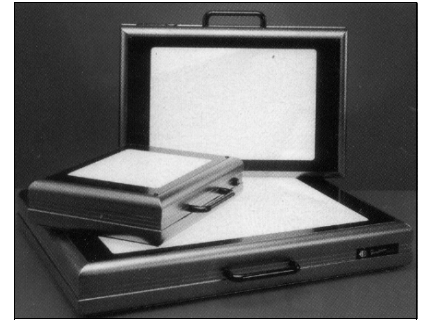
- S294** Fold-over for 35mm 100m
S295 Fold-over for 120 film 100m

Light Boxes

Quasar Luxury Range

An attractive design in lightweight aluminium extrusion with smooth profiles for comfortable working. All models have a flush screen that will not snag viewed material and the body has a stylish 'silver hammer' finish with 'aqua' colour body striping. Standard opal/ acrylic screens with option of glass/opal acrylic screens.

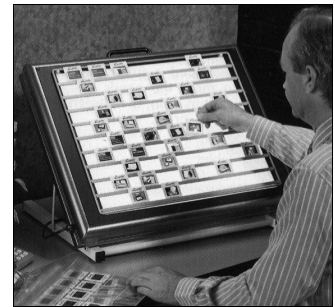
- L126 A4 Quasar light box o/all size 274 x 346 x 90mm
- L127 A3 Quasar light box o/all size 346 x 500 x 90mm
- L128 A2 Quasar light box o/all size 459 x 646 x 90mm
- L129 Light box glass screw



Quasar A2 Sorter

Quasar A2 light box with adjustable bench stand and removable sorting rack for 35mm, 120 slides or multi-format. Please specify on ordering.

- | | | | |
|------|------------------|-----------------------|----------------------|
| | | <i>Screen size mm</i> | <i>O/all size mm</i> |
| L130 | Quasar A2 sorter | 459 x 605 | 500 x 646 x 90 |



Quasar Electronic 'Flicker Free'

For CCD and video camera, scanner, densitometer and other application where elimination of mains induced light flicker is essential. Being invisible to the unaided eye, light flicker is no problem in most applications. It can however, cause difficulties when illuminating for electronic peripherals.

- Fitted with electronic ballast to provide a constant flicker-free illumination and rapid start.
- Internal reflector system provides high quality, even illumination at 5000°K

The acrylic screen of the A3 size is masked down to A4 with an opaque black screen-print. In addition, the the full range of black card masks provided can be used to mask down to any standard format required. This eliminates all extraneous light from around the transparency in use.

- | | | | |
|------|-----------------------------|--|----------------------|
| | | <i>Screen size mm</i> | <i>O/all size mm</i> |
| L135 | Quasar electronic light box | Masked to A4. Black card masks provided for 35mm to 10" x 8" | 296 x 208 x 90 |

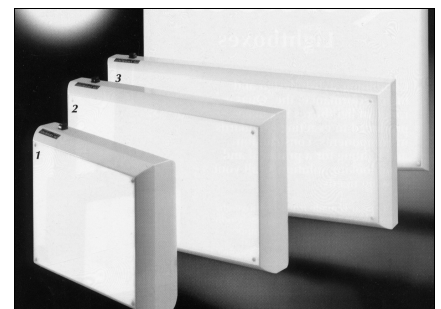


Pulsar Standard Range

A range giving performance, style and value in a lightweight attractively profiled aluminium extrusion with flush fitting acrylic screen. White finish 230V 50Hz.

- | | | | | |
|------|----------|-----------------------|----------------------|------------------|
| | | <i>Screen size mm</i> | <i>O/all size mm</i> | <i>Weight Kg</i> |
| L158 | Pulsar 1 | 209 x 305 | 250 x 346 x 90 | 2.0 |
| L159 | Pulsar 2 | 254 x 459 | 295 x 500 x 90 | 3.4 |
| L160 | Pulsar 3 | 243 x 605 | 295 x 646 x 90 | 4.4 |
| L161 | Pulsar 4 | 439 x 605 | 480 x 646 x 90 | 5.8 |

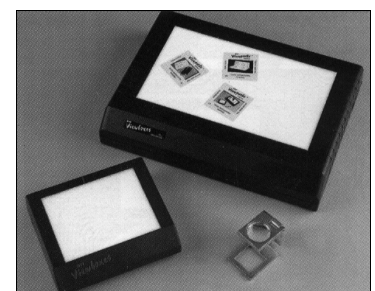
Plug and 3m cable fitted



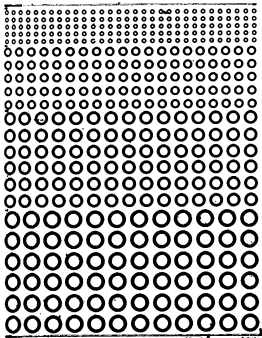
Portable Light Boxes

Viewlight and Maxilight light boxes are versatile, convenient and have flip up back stands for comfortable viewing. Battery or mains powered they are ideal for desk or briefcase. The opal screen on the Viewlight takes several 35mm or one 5" x 4" transparency. The larger Maxilight takes two 5" x 4" transparencies.

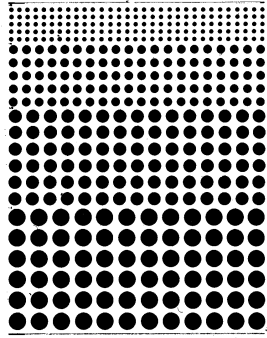
- L131 Viewlight light box
- L132 Maxilight light box



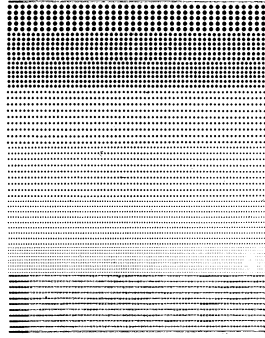
Dry Transfer Symbols and Lettering



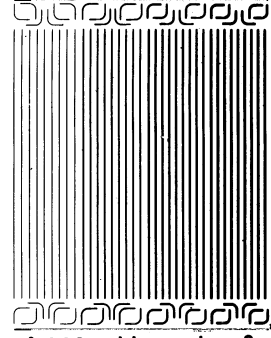
L113 Open circles



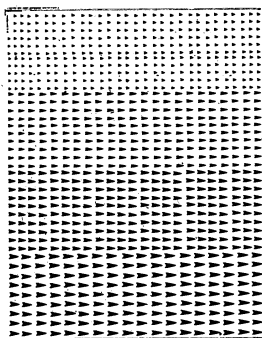
L114 Black circles



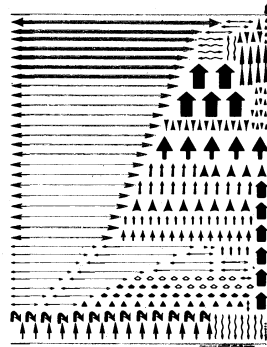
L115 Dots & rules



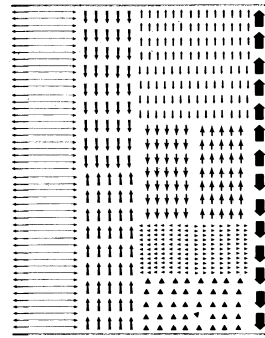
L116 Line rules & corners



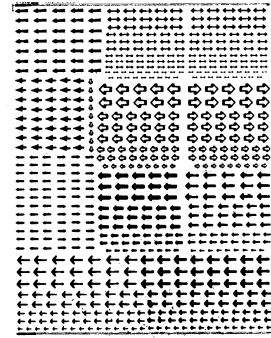
L117 Black arrowheads



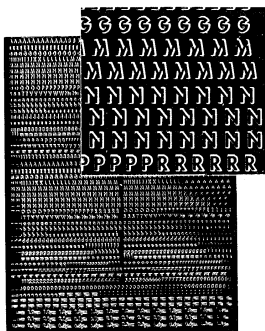
L118 Black arrows



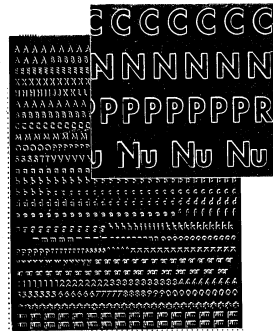
L119 Black arrows



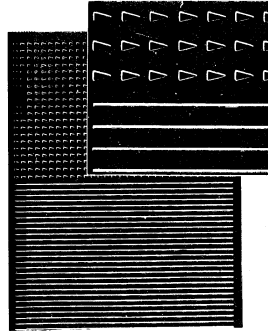
L120 Black arrows



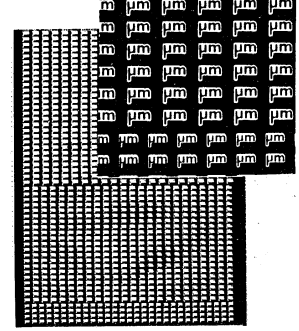
L072 Black/White
EM 12pt



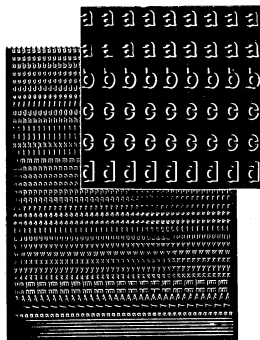
L073 Black/White
Letter sheet 18pt



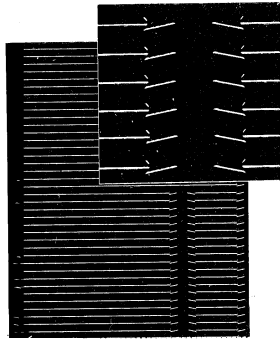
L074 Black/White
Arrowheads & lines



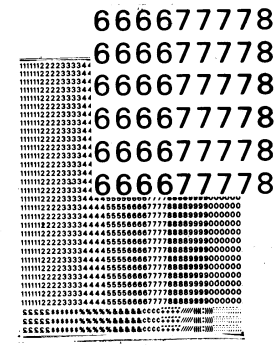
L111 Black/White
Micron 8,10,12pt



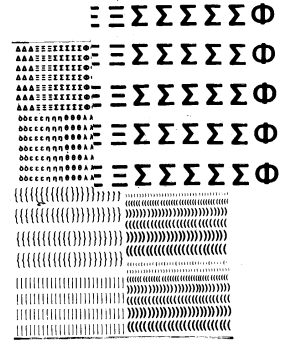
L112 Black/White
EM marks 14pt



L121 Black/White
Arrows



L122 Black numbers - univers 55
10pt.
-L124 18pt.



L123 Black Selected Greek lower case 18pt & various types of brackets.