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Durst M 805 – The stand and rollfilm sizes

Interchangeable lighting systems

While the colour mixing head can be used as a universal light source for all processes, the traditional condenser lamphouse is especially suitable wherever a simpler and more economical version of the M 805 is required exclusively for black-and-white work. The M 805 is therefore available either with the colour mixing head or the condenser lamphouse. Both lighting units are self-contained and independent systems which can be easily interchanged. Both lighting units are designed to give particularly even illumination. Special diffusers in the colour head – or condensers carefully matched to the focal length of the lens in the condenser lamphouse – ensure even illumination on the baseboard to yield uniform brightness and colour rendering even with difficult originals such as single-colour backgrounds.

The CLS 805 colour mixing head

(a) Light mixing with diffusing boxes

The light source of the colour head is a 24 volt, 250 watt tungsten-halogen lamp, mounted obliquely above the negative carrier. Specially designed mixing boxes concentrate the light on to the selected film area. This ensures extremely even illumination and colour distribution. The unit is cooled by a built-in vibration-free fan.

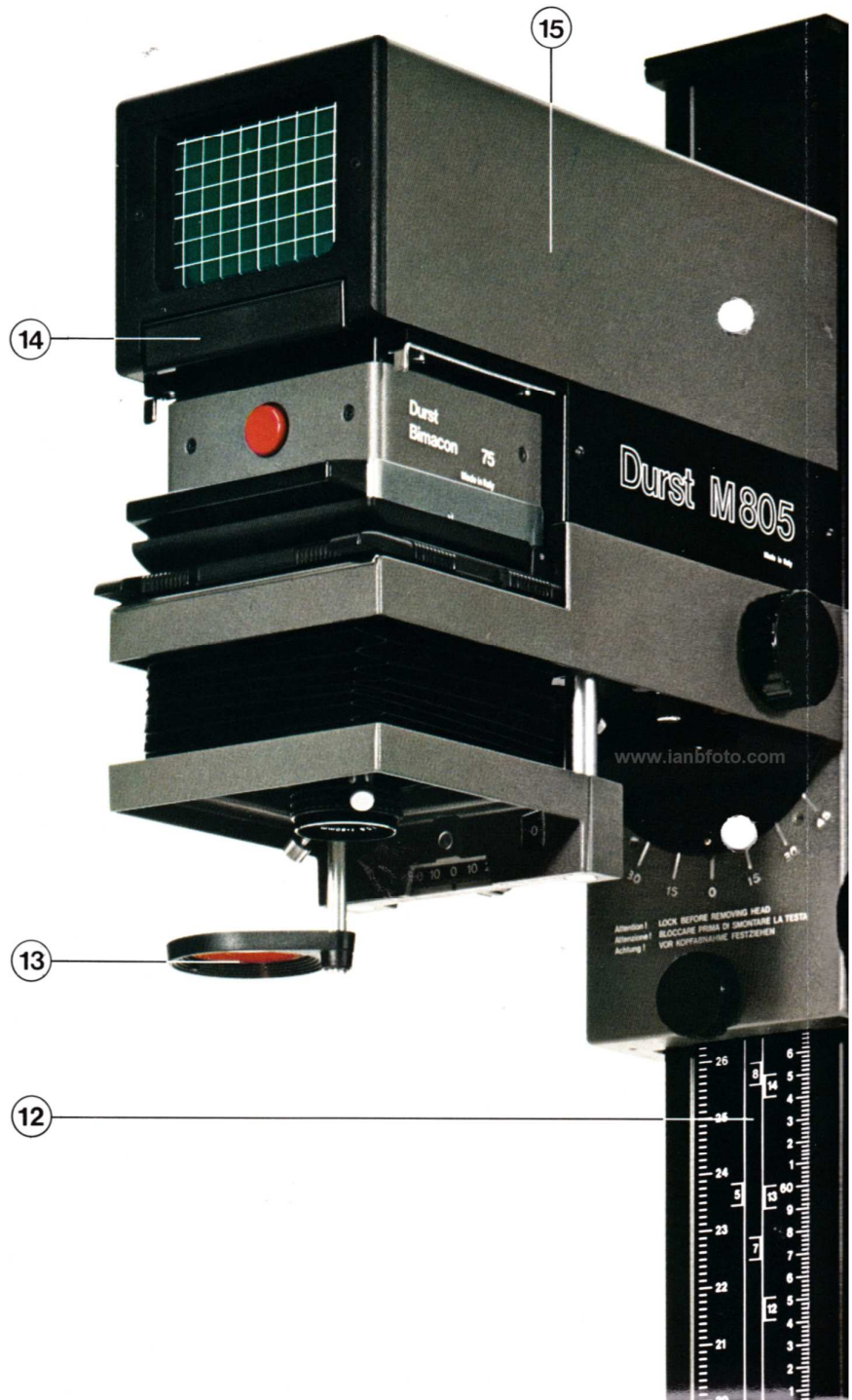
(b) Dichroic filters

The colour mixing head contains interference filters which can be moved continuously into the light path. The maximum densitometric value is 130 (= 195). An additional base filtration of about 45 Y + 15 M can be introduced by moving a lever at the left-hand side of the lamphouse. The filter scales are illuminated but, if required, the scale illumination can be switched off. The high filter densities allow even old, non-masked negatives to be printed without difficulties.

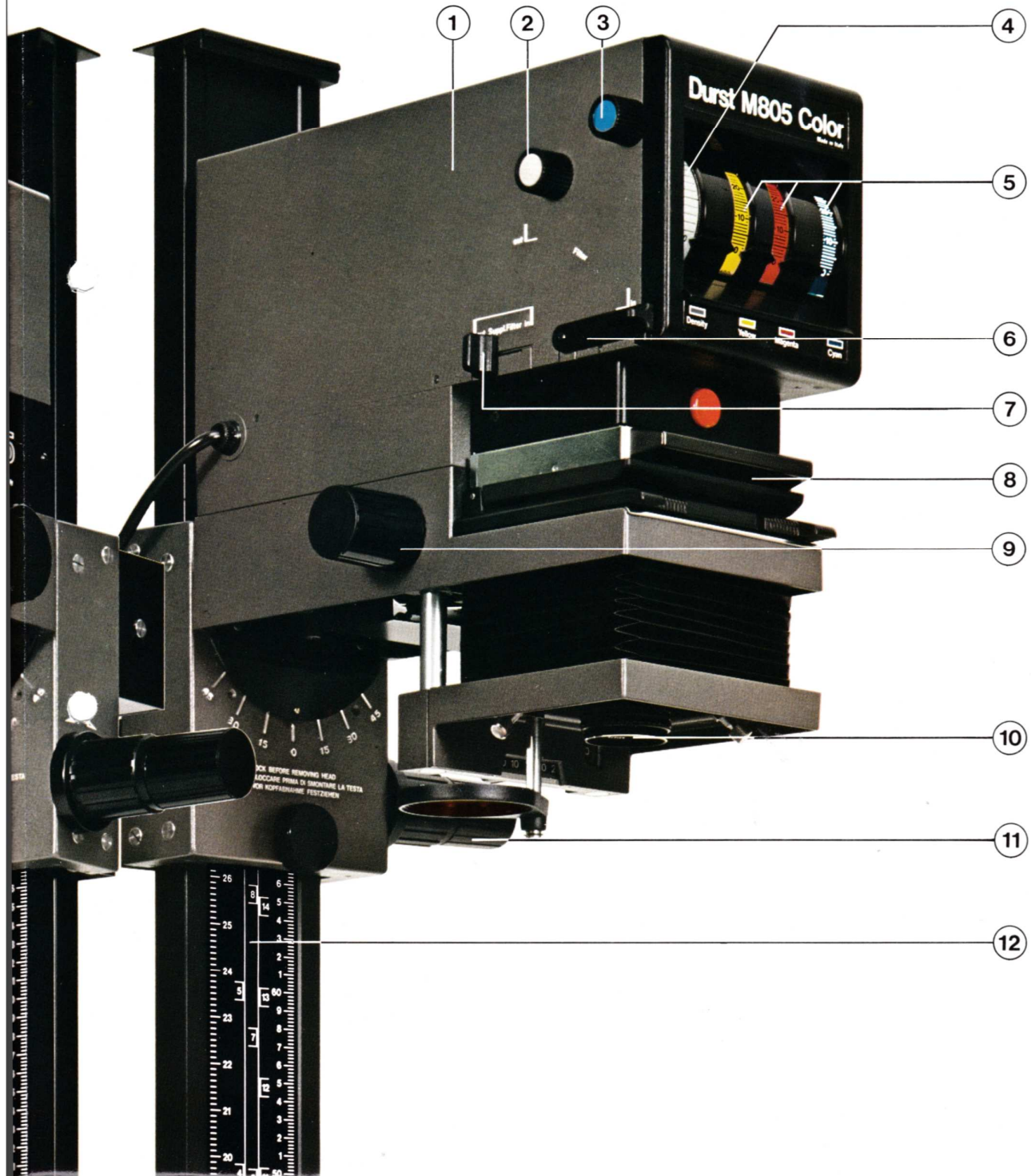
(c) Variable density control.

A special feature of the CLS 805 colour head is a density control which allows the light intensity to be varied over a range of 60 density values (2 lens stops). This means that density changes can be achieved in most cases independently of the lens aperture and exposure time – two factors that could otherwise lead to inconsistent results. The density control thus offers the following important advantages:

- The lens can normally be used at its optimum aperture;
- The exposure time remains constant at



Standard enlarger for 35 mm



factors that could otherwise lead to inconsistent results. The density control thus offers the following important advantages:

- The lens can normally be used at its optimum aperture;
- The exposure time remains constant at different magnifications and with negatives of varying density. This avoids the possibility of colour and density shifts due to reciprocity effects.
- By reducing the light intensity, it is possible to use sufficiently long exposure times even at low magnifications, that lamp afterglow does not affect the exposure.
- By reducing the light intensity it is also possible to give enough time for shading and burning-in, without having to stop down the lens beyond its optimum aperture.

(d) The white-light lever

A further lever on the left side of the lamp-house removes the filters and density control diaphragm from the light path. This facilitates focusing of the projected image. For the exposure, the lever is reset to return the filters and density control diaphragm precisely to their selected settings.

(e) Format change

Above the negative carrier the CLS 805 contains two mixing boxes for different negative formats. One of these, for all film sizes larger than 24×36 mm, is fixed while the other for 24×36 mm can be moved in and out of the light path by means of a sliding control on the enlarger head. This provides optimum light output for all film sizes.

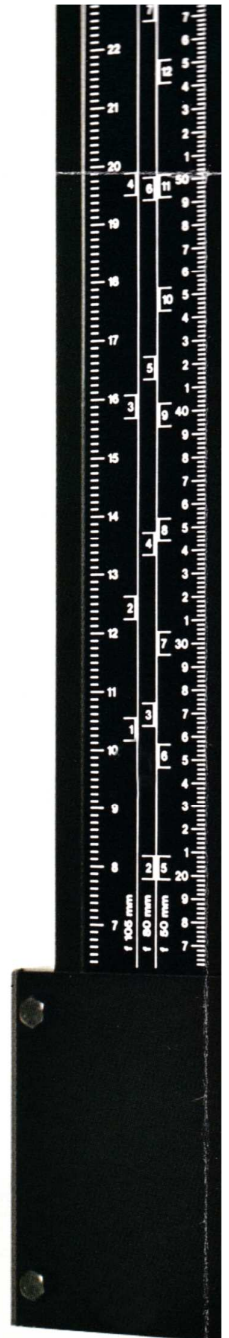
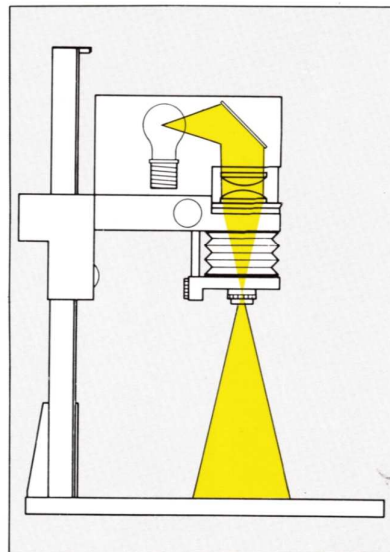
The condenser lamphouse

The light path of this lamphouse for black-and-white enlarging employs a deflecting mirror. This layout ensures effective cooling of the lamphouse as air warmed by the lamp can freely escape at the top. The light source is a 150 watt opal mains voltage lamp and a centering adjustment is provided. The unit incorporates a swing-in red filter.

The lamphouse is supplied complete with a condenser for 80 mm lenses and a supplementary condenser for 35 mm negatives (using a 50 mm enlarging lens). A condenser for 100 to 105 mm lenses, covering a

- ① CLS 805 colour head
- ② Control knob for density control
- ③ Filter control knob
- ④ Density control scale
- ⑤ Filter scales
- ⑥ White-light lever
- ⑦ Supplementary filter slide
- ⑧ Negative carrier
- ⑨ Focusing knob
- ⑩ Lens
- ⑪ Dual hand grip for vertical adjustment
- ⑫ Column with magnification scales
- ⑬ Red filter
- ⑭ Filter drawer
- ⑮ Condenser lamphouse

Diagram of the light path with condenser lighting and opal lamp



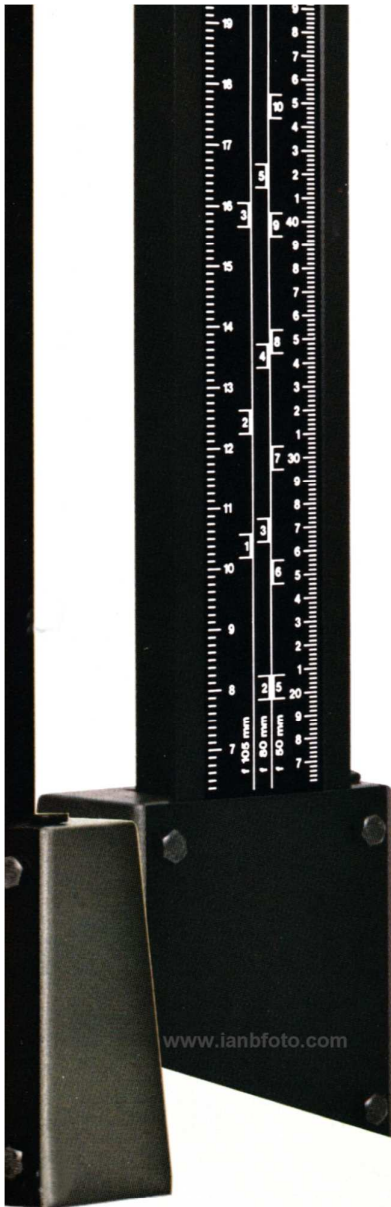
Built-in mixing boxes are easily located with a sliding control



The tilting lens stage with 3-point support for the lens board



The BIMANEG negative carrier with glassless mask inserts



6×9 cm or 2¼×3¼ inch format, is available as an option. A filter drawer takes square 9×9 cm or 3½×3½ inch inserts (diffusers, filters etc.).

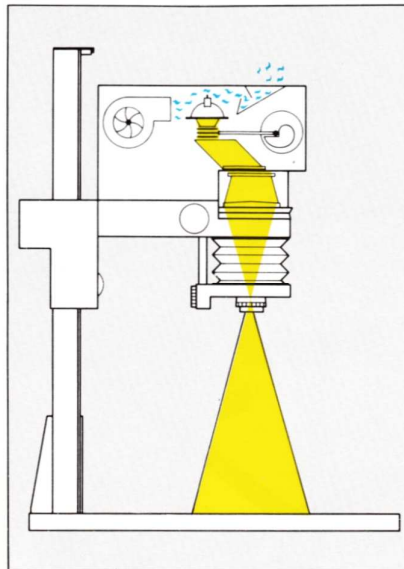
All in all –

the Durst M 805 with its interchangeable lighting systems, its ability to handle a wide range of film sizes and its flexibility is a truly versatile 35 mm and rollfilm enlarger which can favourably stand comparison with any other unit of its kind.

Technical data

- Enlarger type : Universal enlarger for film sizes up to 6×9 cm (57×82 mm or 2¼×3¼ inches)
- Column height : 111 cm (43.7 inches)
- Height with fully raised enlarger head : 135 cm (53.2 inches)

Diagram of the light path with diffused lighting of the tungsten-halogen lamp, showing also the cooling system



- Baseboard size : 60×65 cm (23.6×25.6 inches)
- Usable baseboard area : 60×56 cm (23.6×22.0 inches)
- Optical axis/column distance : 29 cm (11.4 inches)
- Net weight : 24 kg (52.9 lbs)

Linear magnifications

Focal length	Film size	Linear magnification	
		Max.	Min.
100/105 mm	6×9 cm (2¼×3¼ in.)	7.3×	1.5×
75/80 mm	6×6 cm (2¼×2¼ in.)	10.3×	1.1×
50 mm	24×36 mm	17.8×	4.3×
35 mm	18×24 mm	26.5×	7.2×
28 mm	13×17 mm	32.0×	9.2×

CLS 805

- Light source : 24 volt 250 watt tungsten-halogen lamp
- Current supply : TRA 500 transformer or EST 500 voltage stabiliser, 110/220/240 volts, 50-60 Hz
- Light control : With mixing boxes
- Cooling : Fan
- Filters : Yellow, magenta, cyan
- Maximum filter density : 130 densitometric units (D 1.3)
- Supplementary filter : 45 yellow + 15 magenta
- Density control : Up to 60 density units (D 0.6)
- Size and weight : 350×190×145 mm (13.8×7.5×5.7 inches) approx. 5.5 kg (12.1 lbs)

Condenser lamphouse

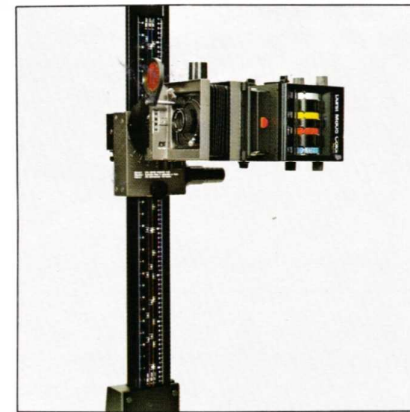
- Light source : 150 watt mains voltage opal lamp
- Lighting system : With deflecting mirror
- Cooling : Convection
- Filter drawer : 9×9 cm (3.5×3.5 inches)
- Size and weight : 325×190×145 mm (12.8×7.5×5.7 inches) approx. 3.6 kg (7.9 lbs)



Inserting in the built-in supplementary filter in the CLS 805 colour head



The Durst M 805 set up for copying



The Durst M 805 Color swung round for horizontal projection

The Durst M 805 universal enlarger

The professional photographer who enlarges his own prints – or the professional photofinisher who has to meet critical customer requirements – can only afford to use up-to-date precision equipment that is easy to operate and stands up to heavy use. Durst enlargers – for any film size – meet all these requirements. They offer the professional high standards of strength, reliability and versatility.

The M 805 enlarger is a standard unit for films up to 6×9 cm or 2¼×3¼ inches (actual 57×82 mm). It is the ideal unit for all those who have no requirement for working with large-format negatives.

With the increasing move to rollfilm sizes in professional photography, enlargers are used in many darkrooms that rarely have to deal with 4×5 inch or 9×12 cm films. Here the M 805 can offer many advantages with its compact size and its ability to change quickly between negative sizes.

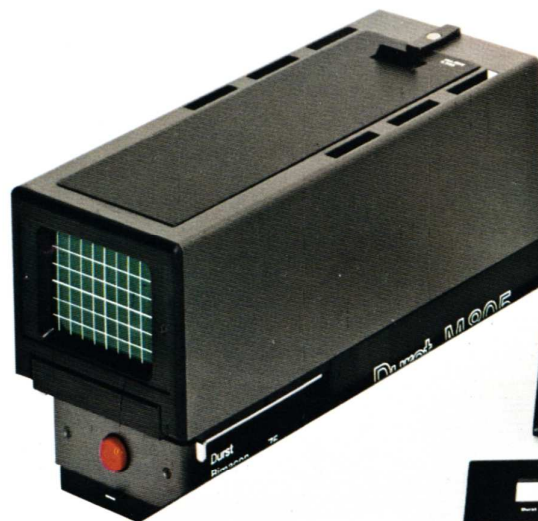
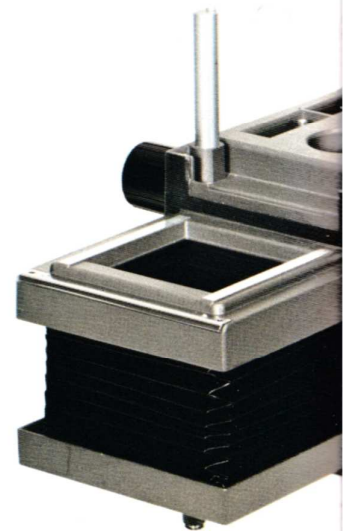
Universal negative carrier

The negative carrier is designed for sizes up to 57×82 mm (nominal 6×9 cm) or 2¼×3¼ inches and includes two glass plates. Anti-Newton glasses are also available. Four independently adjustable masking strips permit precise cropping of the required negative area. Glassless metal mask inserts are available for all sizes from 57×82 mm or

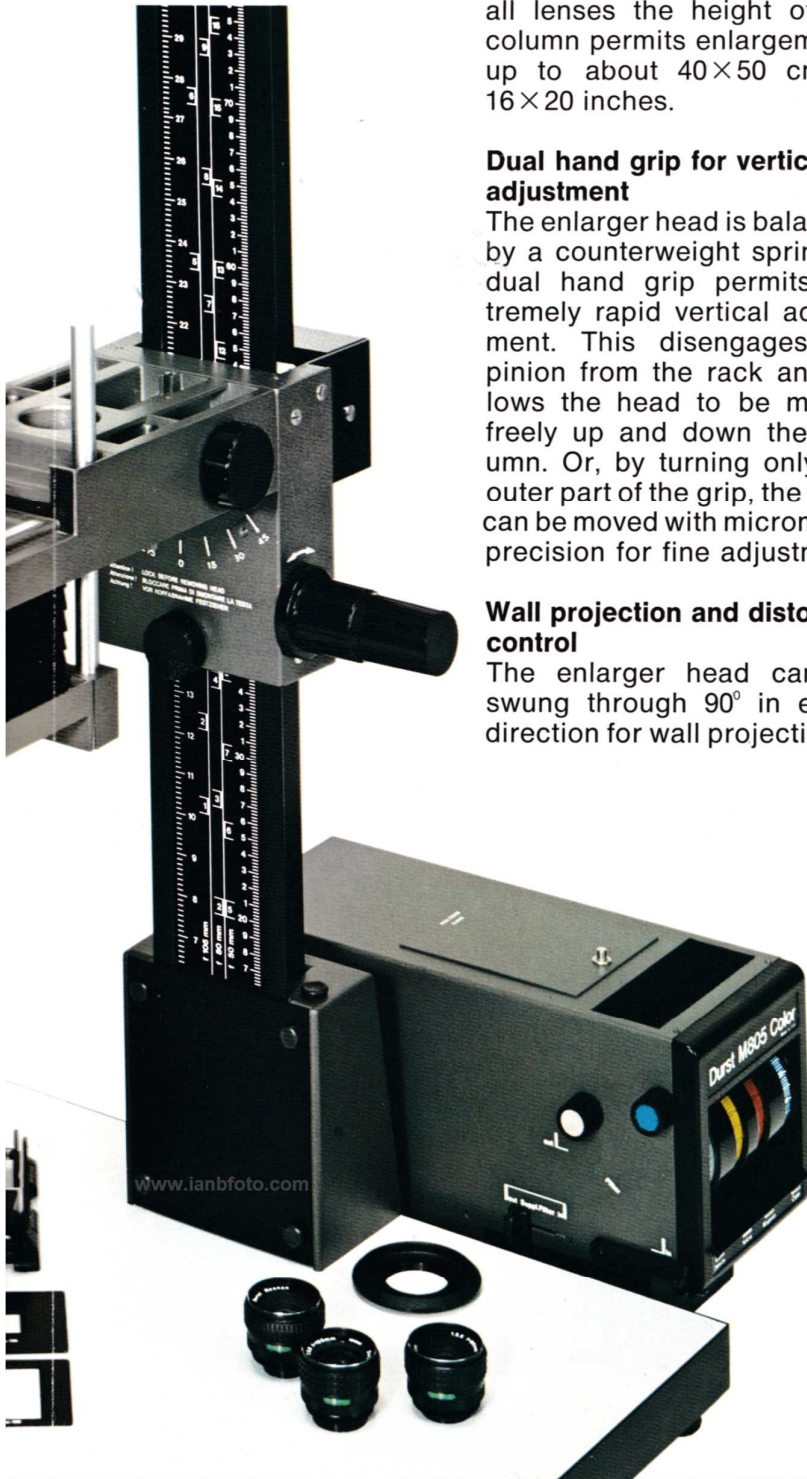
2¼×3¼ inches down to 24×36 mm. The negative carrier can be locked open in the enlarger for easy insertion and movement of negative strips. At the press of a button this lock is released and the carrier closes to hold the negative firmly in place. The negative carrier needs be removed from the enlarger only for cleaning and for changing format masks.

Column with reference scales

A column of rectangular section, solidly anchored in a cast aluminium base, ensures maximum rigidity. The column incorporates cm and inch scales indicating the film plane / baseboard distance. Further scales show the magnification with 105 mm, 80 mm and 50 mm lenses. With



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all lenses the height of the column permits enlargements up to about 40×50 cm or 16×20 inches.

Dual hand grip for vertical adjustment

The enlarger head is balanced by a counterweight spring. A dual hand grip permits extremely rapid vertical adjustment. This disengages the pinion from the rack and allows the head to be moved freely up and down the column. Or, by turning only the outer part of the grip, the head can be moved with micrometer precision for fine adjustment.

Wall projection and distortion control

The enlarger head can be swung through 90° in either direction for wall projection to

achieve bigger enlargements than are possible on the baseboard. The head engages positively in its vertical position and at 90°. The lens stage can also be tilted or offset. In conjunction with the inclined head, this permits correction of converging verticals or the introduction of deliberate distortion for special effect. It also makes it possible to control the depth of focus when copying or photographing solid objects.

The lens range

The M 805 will accept lenses of focal lengths from 28 to 105 mm. This includes Durst NEO-NON 50 mm f/2.8, 80 mm f/5.6 and 105 mm f/5.6 lenses as well as enlarging lenses of other makes.

Copying accessories

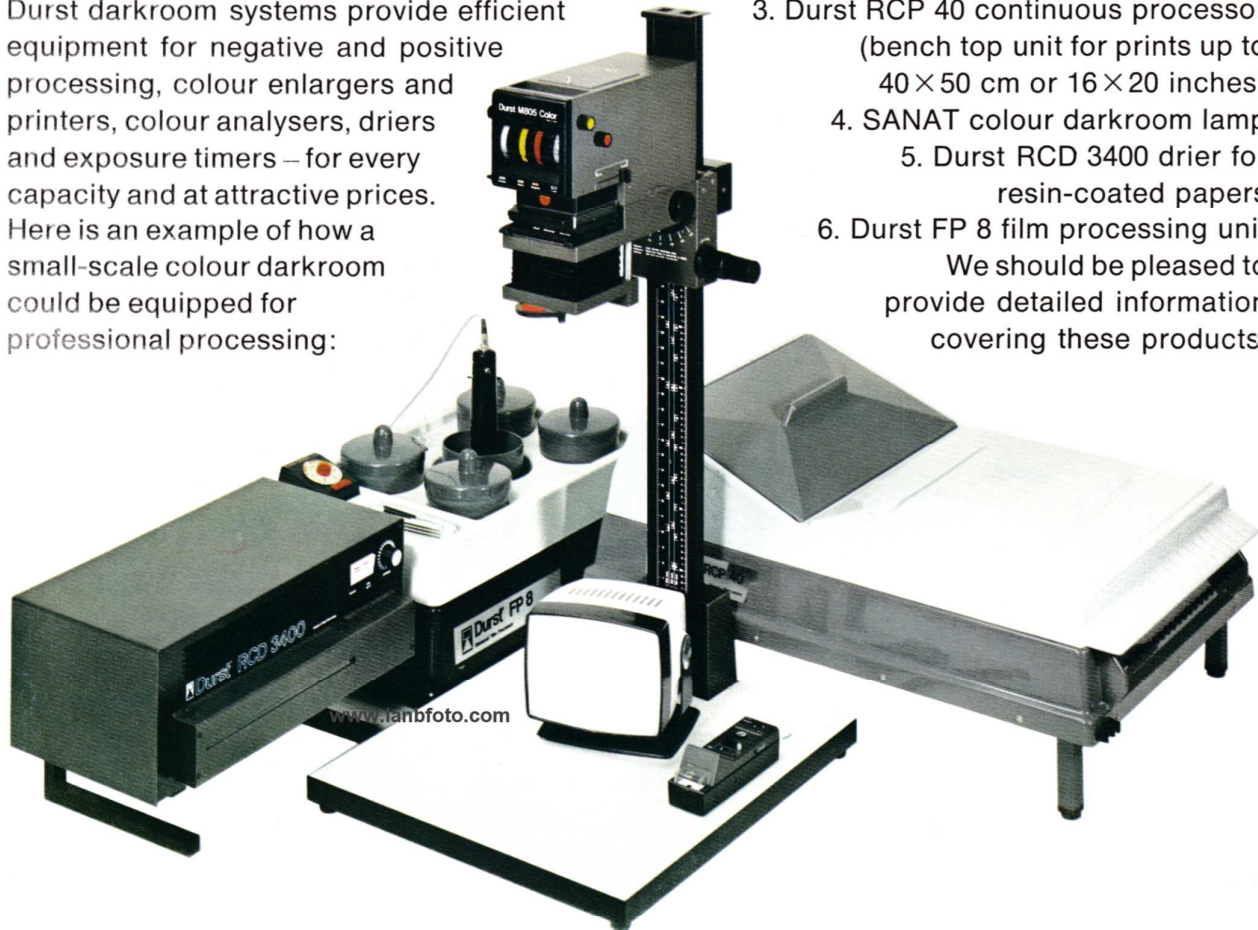
The M 805 can also act as a copying camera. The copying unit (available separately) accepts 6.5×9 cm or 2½×3½ inch sheet film. The condenser lamphouse permits direct focusing by means of a projected screen image. The deflecting mirror in the lamphouse is reversed for this purpose and the enlarger then operates like a single-lens reflex camera.

With the colour head on the other hand, the image is focused by projecting the ground glass screen frame marks on to the surface of the original. The Durst COPYLAM lighting unit is recommended for illuminating the original.

Durst has the complete answer

We are increasingly moving towards economical and independent user processing. Durst darkroom systems provide efficient equipment for negative and positive processing, colour enlargers and printers, colour analysers, driers and exposure timers – for every capacity and at attractive prices. Here is an example of how a small-scale colour darkroom could be equipped for professional processing:

1. M 805 enlarger with CLS 805 colour head
 2. Durst CNA 200 colour analyser
 3. Durst RCP 40 continuous processor (bench top unit for prints up to 40×50 cm or 16×20 inches)
 4. SANAT colour darkroom lamp
 5. Durst RCD 3400 drier for resin-coated papers
 6. Durst FP 8 film processing unit
- We should be pleased to provide detailed information covering these products.



Here are a few typical examples of equipment packages

1. Durst M 805 enlarger (for all film sizes up to 6×9 cm or 2¼×3¼ inches) with CLS 805 colour head - CNA 200 analyser - Exposure timer - Masking frame - FP 8 film processing unit - RCP 40 processor - RCD 3400 drier: Daily output with the above outfit (1 operator, 8-hour day) approx. 200 prints of 20×25 cm or 8×10 inches.

2. Durst LABORATOR 900 enlarger (for all film sizes up to 6×9 cm) with CLS 500 colour head - CNA 100 analyser - Exposure timer - Masking frame - RCP 40 processor - RCD 4500 drier: Daily output with above outfit (1 operator, 8-hour day) approx. 300 prints of 20×25 cm or 8×10 inches.

3. Durst LABORATOR 1200 enlarger (for all film sizes up to 9×12 cm and 4×5 inches) with CLS 500 colour head - CNA 100 analyser - Exposure timer - Masking frame - FP 8 film processing unit - RCP 40 processor - RCD 4500 drier: Daily output of above outfit (1 operator, 8-hour day) approx. 250 prints of 20×25 cm or 8×10 inches.

The latest technical developments are constantly being incorporated into Durst products. Illustrations and descriptions are therefore subject to modification.



Further information from: