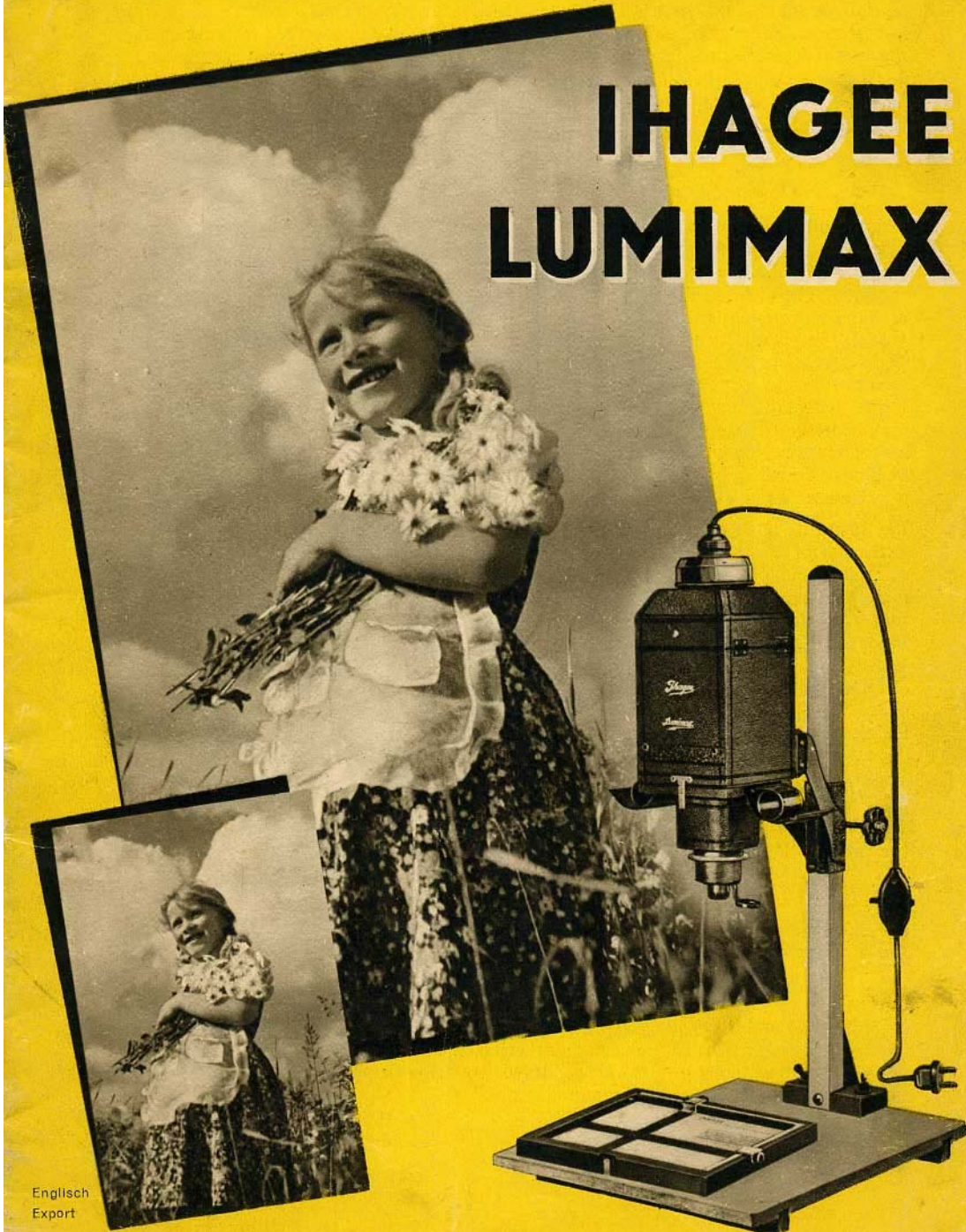


*Make your Enlargements with*

# **IHAGEE LUMIMAX**



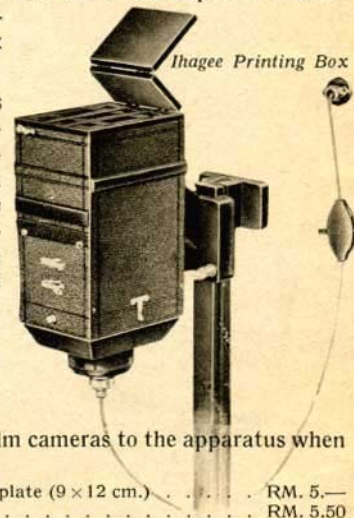
Englisch  
Export

*There is no need today to stress the importance of good enlarging technique, when negatives tend to get smaller and smaller. The inexpensive principle of small negatives giving large prints has been proved beyond all doubt by the many thousand owners of Lumimax enlargers and the instruments described in the list below — though they do not comprise all the models made by Ihagee — will show that sound construction, precise action, and reasonable price are not the least important of their features. We therefore commend them to the reader with full confidence.*

## The Simplex-Lumimax

The main features of this instrument are its simplicity, mechanical strength, and reasonable price. It is designed for use with the photographer's own plate camera (though many roll-film cameras with bellows extension can also be used with it), and a double extension model is not required. The diffused light from the lamp gives soft and beautifully gradated enlargements, and the lamp used is a 75 watt pearl type—two such lamps being used in the 10×15 cm. model. The pillar may either be attached to a baseboard, or else to an ordinary table. To adjust the degree of enlargement, the entire lamp-house and camera attached to it are moved upwards or downwards on the pillar, while focussing is arranged by extending the camera bellows to the correct distance. The lamp-house is well ventilated, and is also provided with a lid, which may be left open when preparing for work, and only closed when the actual exposure is to be made. Further, by using the Ihagee printing box and reversing the instrument on its pillar, the Simplex Lumimax may be used as an ordinary printer.

The highest degree of enlargement depends on the bellows extension of the camera used. The usual values are 6 diameters in the  $2\frac{5}{16} \times 1\frac{3}{4}$ " (4.5×6 cm.) negative size, 4 diameters in the  $3\frac{1}{2} \times 2\frac{1}{2}$ " (6.5×9 cm.) size, 3 diameters in the  $\frac{1}{4}$  plate (9×12 cm.) size, and  $3\frac{1}{2}$  diameters in the 10×15 cm. size. These values are for enlarging on the baseboard or table, but higher degrees of enlargement can be obtained by reversing the pillar so that the image is projected on to the floor beneath. (The baseboard must be weighted in this case to stop the instrument overbalancing.) The usual degree of enlargement thus obtained is some 9 diameters with  $2\frac{5}{16} \times 1\frac{3}{4}$ " (4.5×6 cm.) to  $\frac{1}{4}$  plate (9×12 cm.) negatives.



**Special attachment frames**, used to connect plate or roll-film cameras to the apparatus when they are of other negative sizes:

- for Simplex Lumimax  $2\frac{5}{16} \times 1\frac{3}{4}$ " (4.5×6 cm.) to  $\frac{1}{4}$  plate (9×12 cm.) . . . . . RM. 5.—
- for Simplex Lumimax 10×15 cm. . . . . RM. 5.50

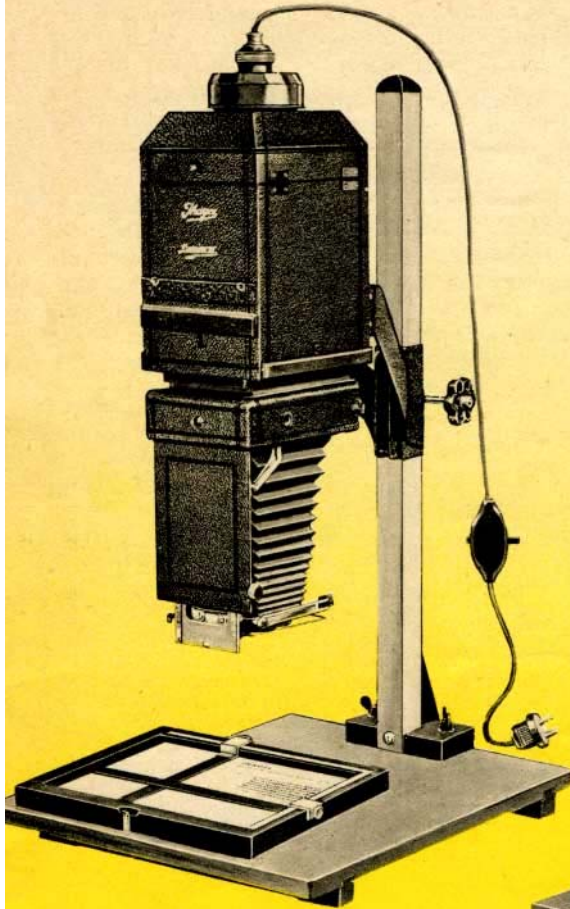
**Pressure frames**, folding type, for enlarging from single cut films:

- for Simplex Lumimax  $2\frac{5}{16} \times 1\frac{3}{4}$ " (4.5×6 cm.) to  $\frac{1}{4}$  plate (9×12 cm.) . . . . . RM. 4.50
- for Simplex Lumimax 10×15 cm. . . . . RM. 5.—

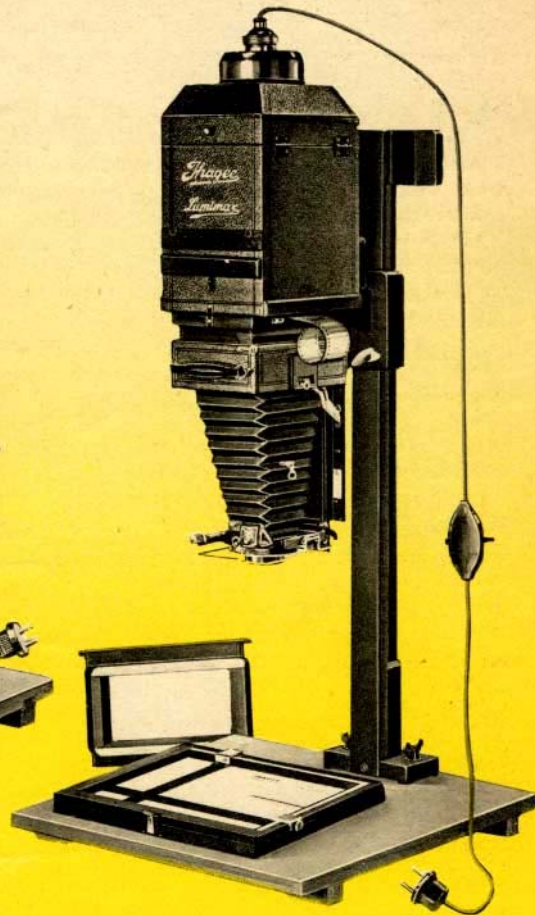
For use in enlarging uncut strips of film (negative size between the miniature  $1 \times 1\frac{1}{2}$ " (24×36 mm.) and  $3\frac{1}{4} \times 2\frac{1}{4}$ " (6×9 cm.), special frames are made which are placed between the lamp-house and the camera. When ordering, the model of the enlarger and the size of film strip it is desired to enlarge should be stated. By using paper or glass masks in these frames, any size of film strip may be accommodated.

- Strip frames**, for all models up to  $\frac{1}{4}$  plate (9×12 cm.) . . . . . RM. 6.75
- for 10×15 cm. model . . . . . RM. 9.—
- Glass masks, all sizes, for use with smaller negatives . . . . . RM. 3.—

# Jhagee Dresden



*Simplex Lumimax*



*Simplex Lumimax with Film Strip Frame*

**Prices of Simplex Lumimax models, including cable and plug, but no lamp:**

	2 <sup>5</sup> / <sub>8</sub> × 1 <sup>3</sup> / <sub>4</sub> " (4.5 × 6 cm.)		3 <sup>1</sup> / <sub>8</sub> × 2 <sup>1</sup> / <sub>8</sub> " (6.5 × 9 cm.)		1/4 plate or 9 × 12 cm.		10 × 15 cm.	
	No.	RM.	No.	RM.	No.	RM.	No.	RM.
Simplex Lumimax . . . . .	5200	17.50	5210	17.50	5220	17.50	5230	25.—
Wooden pillar for same . . . . .	5200 G	7.50	5200 G	7.50	5200 G	7.50	5201 G	13.50
Metal pillar for same . . . . .	5200 GM	10.—	5200 GM	10.—	5200 GM	10.—	—	—
Printing box (5400 and 5410 include one mask) . . . . .	5400	8.60	5410	8.60	5420	7.50	5430	9.—
Baseboard, as illustrated, simple and rigid . . . . .	5622	4.50	5622	4.50	5622	4.50	—	—

## The Universal Lumimax

This is a complete enlarger with lens, pillar, and baseboard. The lamp-house and lens carrier move bodily along the rails for adjusting the degree of enlargement, and coarse focussing is arranged by moving the lens carrier bodily inwards or outwards from the negative. Fine focussing is by rack and pinion, and no attached camera is required.

The illumination is diffused, and gives soft and pleasantly harmonised enlargements. The models up to  $\frac{1}{4}$  plate ( $9 \times 12$  cm.) have a single pearl lamp, while the  $10 \times 15$  cm. and Professional models have two lamps. The upper portion of the lamp-house may be opened for ventilation—a particularly useful point where films are being enlarged—and may be left open for all preparatory work, and closed during the actual exposure. A red filter is provided for the lens, so that the image may be focussed on the bromide paper itself before the latter is exposed.

The degree of enlargement given by the various models is as follows: On the baseboard, or when attached to a table:  $2\frac{1}{4} \times 2\frac{1}{4}$ " ( $6 \times 6$  cm.) 1 to 6 diameters,  $3\frac{1}{2} \times 2\frac{1}{2}$ " ( $6.5 \times 9$  cm.) 1 to 4 diameters,  $\frac{1}{4}$  plate ( $9 \times 12$  cm.) 1 to 3 diameters,  $10 \times 15$  cm.  $\frac{1}{2}$  to  $3\frac{1}{2}$  diameters,  $13 \times 18$  cm.  $\frac{1}{2}$  to 4 diameters. Reversed and enlarging on to the floor: all models give 9 diameters maximum enlargement. (The baseboard must be weighted.)

The universal Lumimax may also be fitted with a printing box and used as a rapid printer. (See Simplex Lumimax.)

**Pressure frames**, for use when enlarging single films (folding type):

for Universal Lumimax models up to $\frac{1}{4}$ plate ( $9 \times 12$ cm.) . . . . .	RM. 4.50
for Universal Lumimax $10 \times 15$ cm. . . . .	RM. 5.—

When enlarging from strips of film, a special strip frame placed between the bellows and the lamp-house body is used. When ordering, quote the model of the enlarger and the negative size of the film to be enlarged. By inserting paper or glass masks, any smaller size of film may be used. The maximum size of film strip negative taken is  $3\frac{1}{4} \times 2\frac{1}{4}$ " ( $6 \times 9$  cm.).

<b>Strip frames:</b> for $\frac{1}{4}$ plate ( $9 \times 12$ cm.) model . . . . .	RM. 6.75
for $10 \times 15$ cm. model . . . . .	RM. 9.—
for $13 \times 18$ cm. model . . . . .	RM. 10.—
Glass masks, all sizes, for use with smaller negatives . . . . .	RM. 3.—

**The professional universal Lumimax** is specifically intended for the professional photographer and the photographic dealer. This model is also available without a lens, so that any favourite type can be used with it.

No.5340	Professional Universal Lumimax, taking $13 \times 18$ cm. negatives (or smaller) without lens . . . . .	RM. 77.—
No.5340 H	As above, but with Ihagee anastigmat f/6.3 and stop cap giving f/9 . . . . .	RM.102.—
No.5340 M	As above, but with Ihagee anastigmat f/4.5 and stop cap giving f/6.3 (Focus 180 mm.) . . . . .	RM.126.—
No.5340 T	As above, but with Ihagee anastigmat f/4.5 and iris diaphragm (Focus 180 mm.) . . . . .	RM.211.—

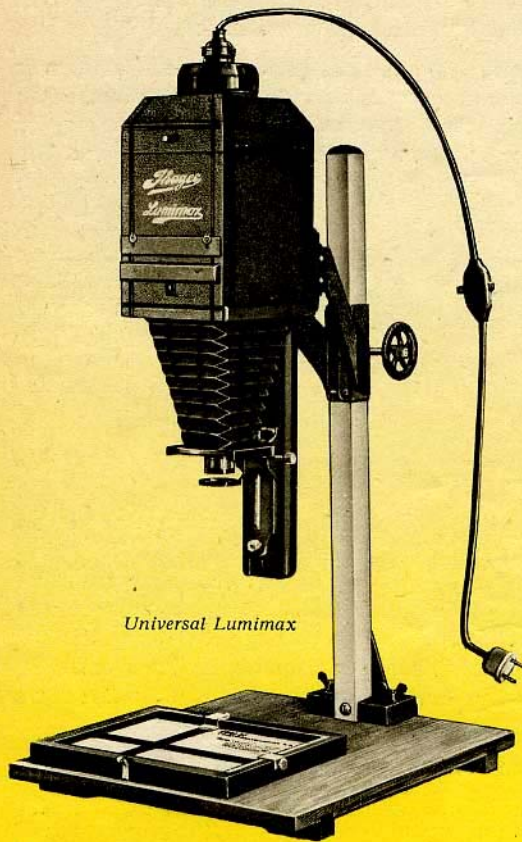
**The Duplex Illumination attachment** (see page 8) may be used with all models of the Universal Lumimax and Professional Universal Lumimax enlargers, and is very convenient when enlarging from miniature films.

**Insert frames**, taking smaller plate sizes in the existing negative carriers, are available in the following sizes:

No.	Size	RM.
5451	$2\frac{2}{16} \times 1\frac{3}{4}$ " in $3\frac{1}{2} \times 2\frac{1}{2}$	1.—
5453	$2\frac{2}{16} \times 1\frac{3}{4}$ " in $9 \times 12$ cm.	1.10
5456	$3\frac{1}{2} \times 2\frac{1}{2}$ " in $\frac{1}{4}$ plate	1.10
5458	$3\frac{1}{2} \times 2\frac{1}{2}$ " in $9 \times 12$ cm.	1.10
5461	$3\frac{1}{2} \times 2\frac{1}{2}$ " in $10 \times 15$ cm.	1.35
5463	$\frac{1}{4}$ plate in $10 \times 15$ cm.	1.35
5466	$9 \times 12$ cm. in $10 \times 15$ cm.	1.35

No.	Size	RM.
5468	$8.25 \times 12$ cm. in $13 \times 18$ cm.	1.45
5471	$9 \times 12$ cm. in $13 \times 18$ cm.	1.45
5473	$10 \times 15$ cm. in $13 \times 18$ cm.	1.45
5476	$\frac{1}{4}$ plate in $\frac{1}{2}$ plate	1.45
5478	$8.25 \times 12$ cm. in $\frac{1}{2}$ plate	1.45
5481	$\frac{1}{2}$ plate in $13 \times 18$ cm.	1.45

# Ihagee Dresden



*Universal Lumimax*



*Professional  
Universal Lumimax*

**Prices of Universal Lumimax models**, including cable and plug, but no lamp, and lens with stop cap or iris diaphragm, and also pillar and baseboard. Models up to  $\frac{1}{4}$  plate (9 × 12 cm.) are sold with either metal or wooden pillar, while the 10 × 15 cm. and Professional (13 × 18 cm.) models are only available on wooden pillars, with no baseboard.

Taking negatives . . . . .	$2\frac{1}{4} \times 2\frac{1}{4}$ " (6 × 6 cm.)		$3\frac{1}{2} \times 2\frac{1}{2}$ " (6.5 × 9 cm.)		$\frac{1}{4}$ plate or 9 × 12 cm.		10 × 15 cm. Wood
	Wood	Metal	Wood	Metal	Wood	Metal	
Number . . . . .	5355 a	5355 b	5310 a	5310 b	5320 a	5320 b	5330
With Ihagee anastigmat f/6.3 and stop cap giving f/9. Lens focus mm Including pillar . . . . . RM.	105 58.—	105 60.—	105 58.—	105 60.—	135 59.—	135 61.—	165 73.—
Number . . . . .	5356 a	5356 b	5311 a	5311 b	5321 a	5321 b	5331
With Ihagee anastigmat f/4.5 and stop cap giving f/6.3 (focus of lenses as above). Including pillar RM.	66.—	68.—	66.—	68.—	70.—	72.—	97.—
Number . . . . .	5357 a	5357 b	5312 a	5312 b	5322 a	5322 b	5332
With Veraplan anastigmat f/4.5 and iris diaphragm (focus of lenses as above). Including pillar RM.	82.—	84.—	82.—	84.—	87.—	89.—	180.—

## *The Miniature Lumimax*

A simple enlarger using diffused illumination, and specially designed for the  $2\frac{1}{4} \times 1\frac{5}{8}$ " ( $4 \times 6.5$  cm.) and  $1\frac{1}{4} \times 1\frac{5}{8}$ " ( $3 \times 4$  cm.) sizes of negatives, as well as smaller ones. For use on the front of the enlarger, our "Parvola" camera is particularly recommended.

The camera is attached to the enlarger by means of the two clamps, and coarse adjustment is arranged by moving the entire lamp-house up or down on its pillar. Fine focussing is arranged by the camera extension. Strip films may be placed in the carrier, and the reflector may be lifted for ventilation during the preparatory work to ensure that films are not damaged. The instrument is delivered complete with baseboard, pillar, cable, and plug. Range of enlargement: 2 to  $5\frac{1}{2}$  diameters.

**Condensing lens.** For the production of greater contrast a special condensing lens may be fitted to the Miniature Lumimax, and it is supplied in a special frame. When this lens is used, the diffusing opal glass must be removed, and a piece of plain glass substituted for it. An opal 100 watt lamp is also required.

Condensing lens in special frame . . . . . RM. 7.75

## *The Exakta Lumimax*

This instrument is specially designed for use with the lens of the Exakta camera (and plates  $4.5 \times 6$  cm. in size), and may be had in models with (a) diffused illumination, or (b) a condensing lens. If the folding masks recommended below are used with the enlarger, smaller negatives can also be placed in the carrier. The Exakta camera lens (which is removed from the camera by holding it by the lens aperture control ring and turning the latter to the left) is screwed into the threaded mount provided on the lamp-house, and is used as an enlarging lens. Coarse focussing is arranged by raising or lowering the lamp-house, while fine focus is set by an extra long helical mount for the lens.

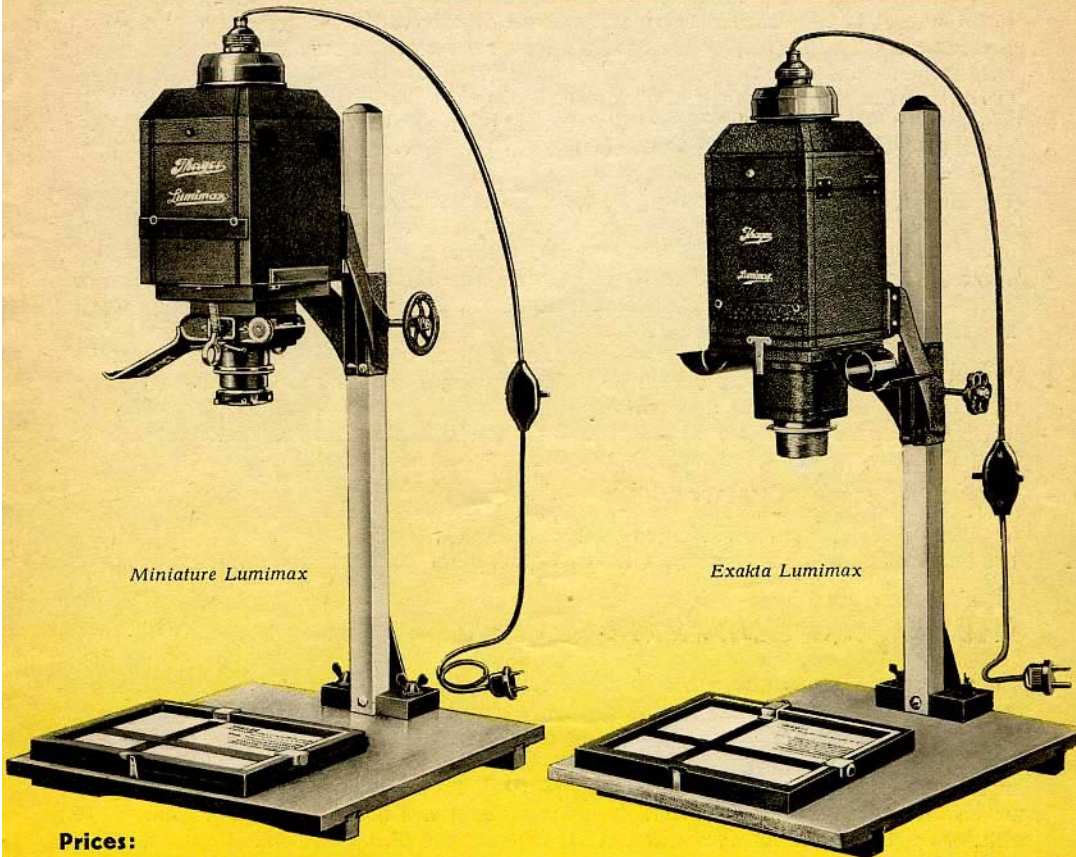
Uncut film strips as well as smaller sizes of negative may be placed in a folding glass mask, which is slipped into the film guide. The ventilation is arranged by opening the top of the lamp-house except when actually exposing. Baseboard and pillar are included in the price.

Model B (with condensing lens) gives a usefully increased contrast in the enlargements: the diffusing glass should be replaced with a plain glass sheet, and an opal 100 watt lamp used when the condenser is in place. Range of enlargement approximately  $1\frac{1}{2}$  to  $5\frac{1}{2}$  diameters on the baseboard, and up to 14 diameters when projecting the image on to the floor.

## *The Kine-Exakta Lumimax*

This enlarger is designed to take the lens of the Kine-Exakta, but it is otherwise identical with the Exakta Lumimax. Model B (with condensing lens) may be turned on its pillar and used also for the projection of transparencies (monochrome only-not colour). (See page 14 for details of the Ihagee transparency printer.) The 100 watt opal lamp used is powerful enough to give a good picture 2 feet 6 inches wide, which is ample for use in the family circle. The Kine-Exakta Lumimax is also delivered complete with baseboard, pillar, cable, and lamp, and has a helical focussing lens mount, film guide for uncut films with a folding mask, and detachable lamp-house top. Range of enlargement: 2 to 10 diameters on the baseboard, and up to 18 diameters when the image is projected on to the floor.

# Ihagee Dresden



Miniature Lumimax

Exakta Lumimax

## Prices:

No. 5750 a.	<b>Miniature Lumimax</b> , with baseboard, pillar, cable, and plug, but no lamp . . .	RM. 34.—
No. 5750 b.	As above, but with metal pillar instead of wood . . .	RM. 36.—
No. 5460.	Printing box for use with above . . .	RM. 6.50
	Glass masks for negatives $1\frac{1}{8} \times 1\frac{1}{4}$ " ( $3 \times 4$ cm.), $1 \times 1\frac{1}{2}$ " ( $24 \times 36$ mm.), ordinary cinema film, and 16-mm. cinema film, etc. each . . .	RM. 3.—
No. 5950 A/a.	<b>Exakta Lumimax</b> (diffused illumination) with wooden pillar, baseboard, cable, plug, but no lamp . . .	RM. 41.—
No. 5950 A/b.	As above, but with metal pillar . . .	RM. 43.—
No. 5950 B/a.	<b>Exakta Lumimax</b> (condensing lens model) with wooden pillar, baseboard, cable, plug, but no lamp . . .	RM. 49.—
No. 5950 B/b.	As above, but with metal pillar . . .	RM. 51.—
	Distance ring for adapting the lens of the Reflex-Korelle for use with Exakta Lumimax . . .	RM. 2.20
	Spare glass masks for $2\frac{1}{4} \times 1\frac{3}{8}$ " ( $4 \times 6.5$ cm.), $1\frac{1}{8} \times 1\frac{1}{4}$ " ( $3 \times 4$ cm.), $1 \times 1\frac{1}{2}$ " ( $24 \times 36$ mm.), normal cinema film, 16-mm. cinema film, and other small negative sizes, each . . .	RM. 3.85
No. 6040 A/a.	<b>Kine-Exakta Lumimax</b> (diffused illumination), with wooden pillar, baseboard, cable, plug, but no lamp . . .	RM. 41.—
No. 6040 A/b.	As above, but with metal pillar . . .	RM. 43.—
No. 6040 B/a.	<b>Kine-Exakta Lumimax</b> (condensing lens model) with wooden pillar, baseboard, cable, plug, but no lamp . . .	RM. 49.—
No. 6040 B/b.	As above, but with metal pillar . . .	RM. 51.—
	Distance ring for adapting the lenses of the Contax or Leica for use with the Kine-Exakta Lumimax . . .	RM. 2.20
	Extra glass masks, $1 \times 1\frac{1}{2}$ " ( $24 \times 36$ mm.), each . . .	RM. 3.85
	Metal carrier for projection of positive films $1 \times 1\frac{1}{2}$ " (No. 5501) . . .	RM. 3.85
	Changing carrier for lantern slides $2 \times 2$ " ( $5 \times 5$ cm.) (No. 5502) . . .	RM. 2.80

## The Duplex Lumimax

This enlarger includes a condensing lens, and takes negatives of all sizes up to  $2\frac{1}{4} \times 2\frac{1}{4}$ " ( $6 \times 6$  cm.). A highly efficient enlarger for small negatives: the inclusion of the condensing lens increases the intensity of the printing light, since the lens collects scattered light from the lamp and sends it in the direction of the negative. This process also increases the contrast of the enlargement, though where a negative is already sufficiently contrasty, the condensing lens may be removed, and an opal glass placed in the lamp-house to diffuse the light. With dense flat negatives, the condensing lens has the great advantage of increasing contrast and reducing the time of printing.

The Duplex Lumimax may be used for all negatives of  $2\frac{1}{4} \times 2\frac{1}{4}$ " ( $6 \times 6$  cm.) and smaller, and portions of  $3\frac{1}{4} \times 2\frac{1}{4}$ " ( $6 \times 9$  cm.) negatives may also be enlarged with it. When ordering, please state what negative size is to be used. Coarse adjustment is effected by raising or lowering the entire lamp-house on its pillar, while fine focussing is done with an extra long helical screw on the lens mount. The Duplex Lumimax is also fitted with a very fine enlarging lens (Ihagee anastigmat  $f/4.5$ — $3''$  focus—giving  $f/6.3$  with a stop-cap, or else the Veraplan  $f/4.5$  anastigmat, which has the same focus, and is fitted with an iris diaphragm), carrier for use with uncut film strips (as well as for single negatives), red filter for the lens, so that the focus may be adjusted with the bromide paper in position, and a detachable lamp-house top, which may be removed for ventilation and only lowered into place for the exposure proper. The last assures adequate ventilation and undamaged films. Range of enlargement:  $1\frac{1}{2}$  to 6 diameters on the baseboard, and up to 14 diameters when projecting the image on to the floor. An opal lamp is used in the instrument,  $1\frac{5}{8} \times 1\frac{1}{4}$ " ( $3 \times 4$  cm.) negatives and smaller requiring a 75 watt type, and larger negatives a 100 watt type.

The Duplex Lumimax is delivered with baseboard, pillar, cable, and plug, but no lamp.

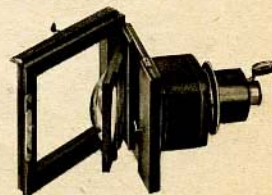
## The Duplex Lumimax ( $3\frac{1}{4} \times 2\frac{1}{4}$ " — $6 \times 9$ cm-Model).

The above enlarger is also made in the  $3\frac{1}{4} \times 2\frac{1}{4}$ " ( $6 \times 9$  cm.) size. This instrument incorporates the same advantages as the smaller model, and includes detachable lamp-house top, carrier for uncut film strips, and for enlarging from single negatives. The lens is the Ihagee  $f/4.5$  anastigmat ( $4\frac{1}{8}''$  focus) with stop-cap giving  $f/6.3$ , or the Veraplan  $f/4.5$  anastigmat of the same focus, with iris diaphragm. Baseboard, pillar, and condensing lens are also included, though the focussing is arranged in this model by rack and pinion. The condensing lens can be removed where it is desired to use diffused illumination, and the instrument can naturally be used for smaller sizes of negative after removing the glass mask, plates  $2\frac{1}{4} \times 3\frac{1}{4}$  can be enlarged. (The lower portion of the lamp-house cannot be delivered separately.)

The lamp used is an opal 100 watt type, and the range of enlargement is from  $1\frac{1}{2}$  to 4 diameters with the baseboard, and up to 10 diameters when projecting the image on to the floor.

### The Duplex Conversion Frame

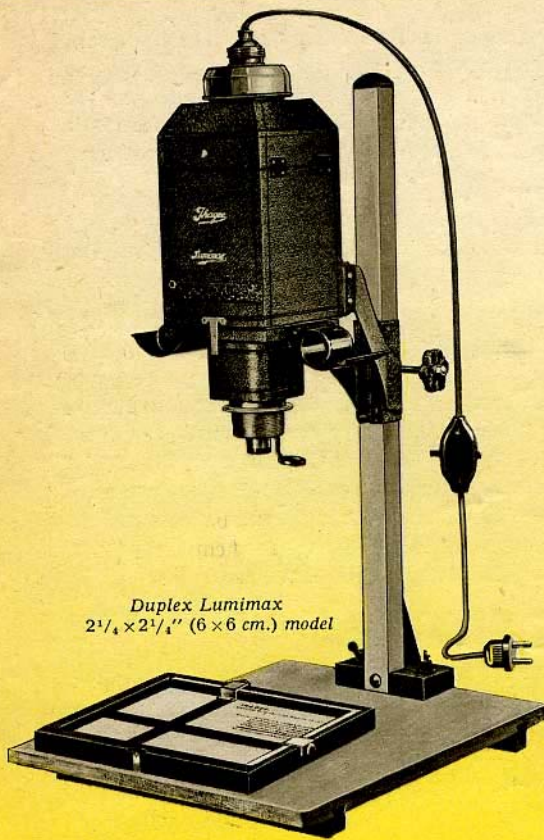
In order that the Simplex and Universal Lumimax models may be converted into miniature enlargers, a Duplex Conversion Frame is available. It is fitted with detachable condensing lens, helical lens mount, carrier for uncut film strips, and Ihagee  $f/4.5$  anastigmat ( $2\frac{3}{4}''$  focus) with stop-cap giving  $f/6.3$ , or else Veraplan  $f/4.5$  anastigmat ( $3''$  focus) with iris diaphragm, and can be attached to the Simplex and Universal Lumimax models without further ado. When ordering, it is necessary to state the negative size of the existing enlarger. The Duplex Conversion Frame is available for all negatives of  $2\frac{1}{4} \times 2\frac{1}{4}$ " ( $6 \times 6$  cm.) and smaller, and in the  $2\frac{1}{4} \times 2\frac{1}{4}$ " ( $6 \times 6$  cm.) size the condenser illuminated an area of some  $2 \times 2''$  ( $5 \times 5$  cm.). This is no detriment as a rule, for the edges of negatives are rarely enlarged. With smaller negatives, the entire picture area is naturally covered.



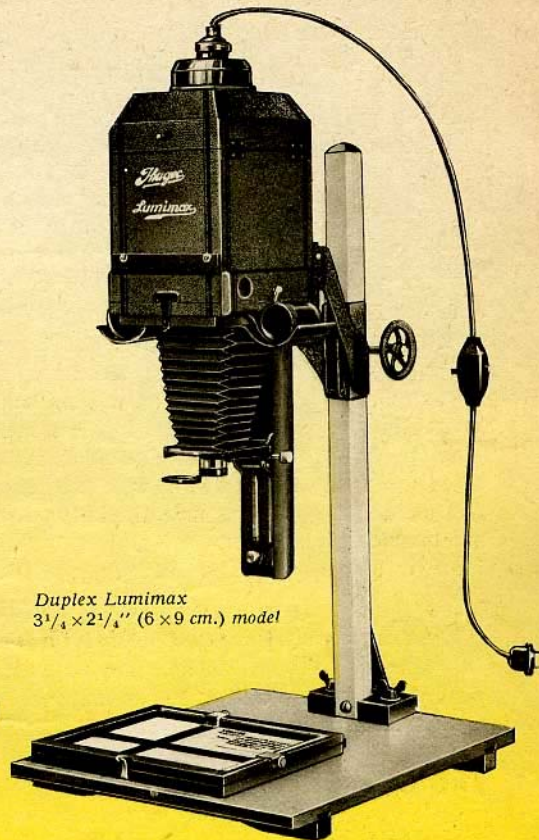
Duplex Conversion Frame



# Ihagee Dresden



Duplex Lumimax  
2 1/4 x 2 1/4" (6 x 6 cm.) model



Duplex Lumimax  
3 1/4 x 2 1/4" (6 x 9 cm.) model

**Prices:**

<b>Duplex Lumimax for 2 1/4 x 2 1/4" (6 x 6 cm.) negatives:</b> with Ihagee anastigmat f/4.5 (3" focus) with stop-cap giving f/6.3 with Veraplan anastigmat f/4.5 (3" focus) with iris diaphragm .	Wooden pillar		Metal pillar	
	No.	RM.	No.	RM.
	6250 GLa	58.—	6250 GLb	60.—
	6550 GLa	74.—	6550 GLb	76.—
<b>Duplex Lumimax for 3 1/4 x 2 1/4" (6 x 9 cm.) negatives:</b> with Ihagee anastigmat f/4.5 (4 1/8" focus) with stop-cap giving f/6.3 with Veraplan anastigmat f/4.5 (4 1/8" focus) with iris diaphragm	6260 a	76.—	6260 b	78.—
	6660 a	93.—	6660 b	95.—

Spare glass masks for other negative sizes, each RM. 3.85.

**Duplex Lumimax Conversion Frame for Simplex and Universal Lumimax enlargers:**

No. 6265, with Ihagee anastigmat f/4.5 (2 3/4" focus) with stop-cap giving f/6.3 . . . . . RM. 36.—  
 No. 6266, with Veraplan anastigmat f/4.5 (3" focus) with iris diaphragm . . . . . RM. 53.—  
 Spare glass masks for other negative sizes, each . . . . . RM. 3.—  
 Extra charge for Conversion frame to fit 10 x 15 cm. enlargers . . . . . RM. 6.75  
 Extra charge for Conversion frame to fit 13 x 18 cm. enlargers . . . . . RM. 7.75

Enlargers of the 10 x 15 cm. and 13 x 18 cm. sizes must further be fitted at the factory with a special central fitting, for which the sum of RM. 4.50 is charged. Range of enlargement is 1 1/2 to 6 diameters on the base-board, or up to 14 diameters when projecting the image on to the floor.

## The Lumimax M.

### (New Model with Condensing Lens.)

This enlarger diverges from the others of the series in the earlier part of the present list, since it has a metal lamp-house, but the instrument has the same advantages as those with wooden construction. The lamp-house itself is well ventilated, and can be completely opened by detaching the upper half on a special bayonet catch. Since (as is well known) wood becomes hot less rapidly than metal, the film guide is made of wood even in the Lumimax M.

A condensing lens is provided to increase the light intensity, and it collects a great deal of scattered light which would otherwise be lost, and utilises it to illuminate the negative. The contrast of the enlargement is also increased as a result, and the exposure times reduced.

The Lumimax M is suitable for all negatives of  $2\frac{1}{4} \times 2\frac{1}{4}$ " ( $6 \times 6$  cm.) and smaller. (When ordering, kindly state the negative size to be used.) The carrier takes uncut film strips as well as single cut negatives and holds them truly flat. The lamp-house moves up and down on its pillar for coarse focussing, while a helical focussing mount with an extra long thread serves fine focussing. The enlarging lens used is either the Ihagee anastigmat f/4.5 with a stop-cap giving f/6.3, or else the Veraplan anastigmat f/4.5 with iris diaphragm, while special models are also delivered to take the lenses of the Exakta or Kine-Exakta cameras. Models 6450 and 6455 also have a red filter for the lens, so that the image may be focussed on the bromide paper itself before exposure. The lamp used for  $1\frac{5}{8} \times 1\frac{1}{4}$ " ( $3 \times 4$  cm.) negatives is a 75 watt opal type, while for larger negatives a 100 watt opal lamp is required.

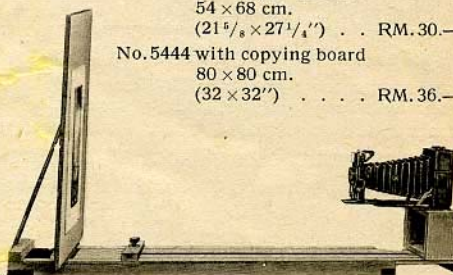
The range of enlargement given by the Lumimax M is approximately  $1\frac{1}{2}$  to 6 diameters on the baseboard, while if the lamp-house is turned round on its pillar and the baseboard weighted, enlargements up to 14 diameters may be made on the floor. The instrument is delivered complete with baseboard, pillar, lens, cable, and plug, but without the lamp.

## The Lumimax Reproduction Stand

This special stand consists of a raised block holding the camera (with a wing nut and bolt to hold the latter firmly), and a copying board which may be erected in an accurately vertical position. The horizontal rail connecting the two can be adjusted to any length up to 6 feet, and accuracy of parallelism between the negative and the original to be copied is assured.

### Prices:

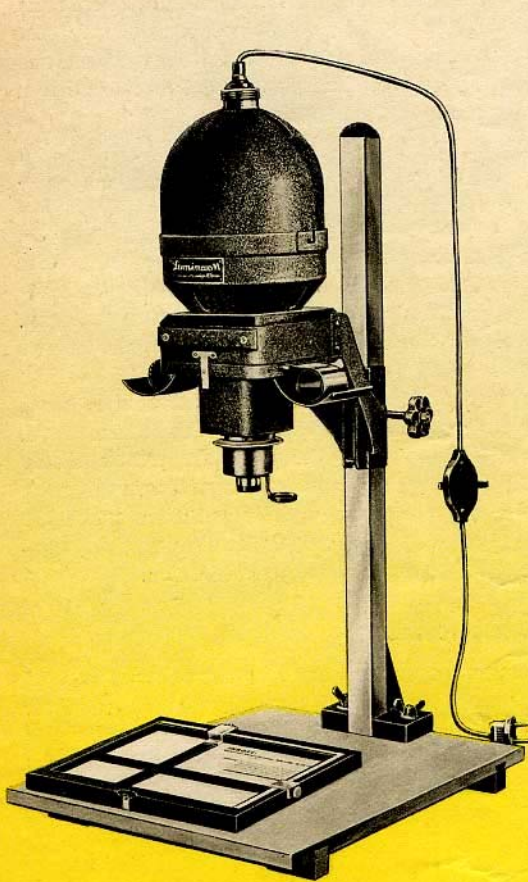
The Stand is made in two models:  
No. 5442 with copying board  
54 × 68 cm.  
( $21\frac{3}{8} \times 27\frac{1}{4}$ "') . . . RM. 30.—  
No. 5444 with copying board  
80 × 80 cm.  
( $32 \times 32$ "') . . . . . RM. 36.—



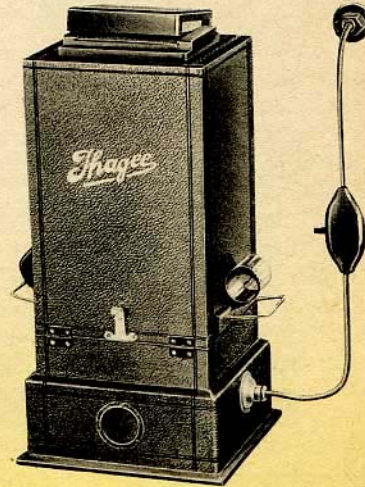
## The Ihagee Fixed-Focus Enlarger

This enlarger is designed for producing enlargements of  $3\frac{1}{4} \times 2\frac{1}{4}$ " ( $6 \times 9$  cm.),  $\frac{1}{4}$  plate ( $9 \times 12$  cm.), and post-card ( $9 \times 14$  cm.) sizes from the miniature  $1 \times 1\frac{1}{2}$ " ( $24 \times 36$  mm.) negatives on cinema film. The film strip is placed uncut in the instrument and held flat with a special device. The image may be examined on a hinged ground-glass screen before exposing, while the printing paper rests on a plate-glass sheet and is pressed into contact with it by means of a rubber pad. A 40 watt opal lamp is used, and a condensing lens ensures efficient use of the light.

# Ihagee Dresden



Lumimax M



Ihagee Fixed-Focus Enlarger



Upper portion of Fixed-Focus Enlarger  
for  $\frac{1}{4}$  plate or  $9 \times 12$  cm. and post-card prints

## Prices: Lumimax M

	Wooden pillar		Metal pillar	
	No.	RM.	No.	RM.
With Ihagee f/4.5 anastigmat (3" focus), and stop-cap giving f/6.3 . . .	6450 a	68.—	6450 b	70.—
With Veraplan f/4.5 anastigmat (3" focus), and iris diaphragm . . .	6455 a	84.—	6455 b	86.—
Without lens, to take the lens of the Exakta camera ( $1\frac{3}{8} \times 2\frac{1}{4}$ " . . .	6401 a	60.—	6401 b	62.—
Without lens, to take the lens of the Kine-Exakta camera ( $24 \times 36$ mm.)	6402 a	60.—	6402 b	62.—

Spare folding masks for smaller negatives, each (state size required when ordering) . . . . . RM. 3.85

**Ihagee Fixed-Focus enlarger**, giving prints  $3\frac{1}{4} \times 2\frac{1}{4}$ " ( $6 \times 9$  cm.),  $\frac{1}{4}$  plate ( $9 \times 12$  cm.), and post-card ( $9 \times 14$  cm.), from standard  $1 \times 1\frac{1}{2}$ " ( $24 \times 36$  mm.) negatives, complete with Trioplan f/4.5 (2" focus), cable with switch and plug, but no lens, and interchangeable upper portion for the larger print sizes. No. 4925 RM.55.—

## The Repro-Lumimax

**(The ideal enlarging and copying instrument for use with plate cameras.)**

Enlarging and reducing with the Repro-Lumimax is just the same as when the Simplex Lumimax (pp. 2 and 3) is used, but the present instrument may further be used for enlarged or reduced copies by direct photography with ground-glass screen focussing. Old documents and photographs may be copied in this way, pictures and maps may be reduced down for use with lantern slides (this is very useful in school work), and even postage stamps, coins, and small insects can be particularly easily photographed with the aid of the Repro-Lumimax. The range of work of the instrument is thus exceedingly wide.

The detachable upper portion of the lamp-house is removed for this work, and placed in the special holder illustrated, thus providing a special—and very efficient—illuminating unit. According to whether enlargements or reduced copies are required, the focussing adapter is placed either in the spot from which the reflector was removed, or else in a special slip below. Focussing, which is followed on the ground-glass screen, is arranged by moving the entire instrument and then adjusting the camera extension. A special dark-slide containing the plate to be exposed is then substituted for the ground glass, and the exposure made in the usual way. The degree of enlargement, when used as an enlarger, depends to some extent on the bellows extension of the camera used, but is approximately 1 to 6 diameters in the  $2\frac{5}{16} \times 1\frac{3}{4}$ " (4.5 × 6 cm.) negative size, 1 to 4 diameters in the  $3\frac{1}{2} \times 2\frac{1}{2}$ " (6.5 × 9 cm.) negative size, 1 to 3 diameters in the  $\frac{1}{4}$  plate (9 × 12 cm.) negative size, and 1 to 3.5 diameters in the 10 × 15 cm. negative size. This assumes that the instrument projects onto the baseboard or a table. By projecting on to the floor, the enlargement is up to approximately 9 diameters in all cases. The Repro-Lumimax, arranged to take existing plate cameras, is delivered with detachable reflector, copying device, and one metal dark-slide 9 × 12 cm. in size taking the smaller negatives, and one dark-slide 10 × 15 cm. taking the larger sizes. No lamp is included.

## The Universal Repro-Lumimax

This instrument is similar to the Universal Lumimax described on pages 4 and 5, and is fitted with bellows, lens, and rack and pinion focussing mechanism. It has all the advantages of the Repro-Lumimax described above, and the ground-glass screen is placed in the instrument in a similar way. This particular instrument is particularly recommended for use in professional photography, and for banks, schools, and similar institutions.

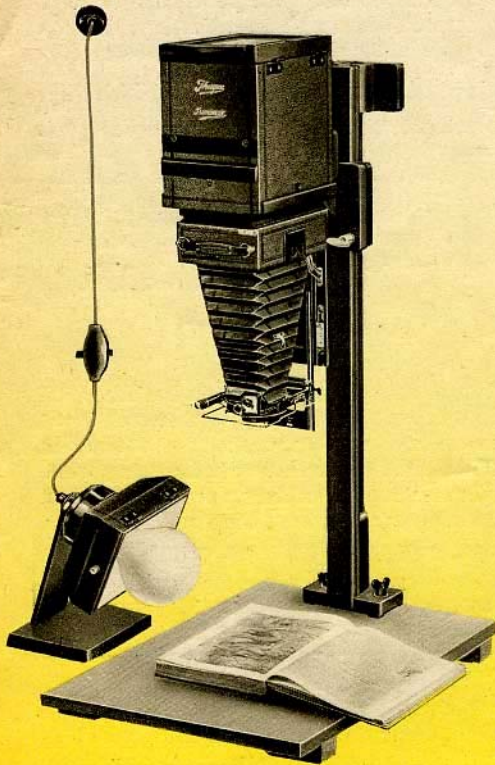
By attaching the instrument to a table or baseboard, the following ranges of enlargement are given, when used as an enlarger:  $3\frac{1}{2} \times 2\frac{1}{2}$ " (6.5 × 9 cm.) 1 to 4 diameters,  $\frac{1}{4}$  plate (9 × 12 cm.) 1 to 3 diameters, 10 × 15 cm.  $\frac{1}{2}$  to  $3\frac{1}{2}$  diameters, and 13 × 18 cm.  $\frac{1}{2}$  to 4 diameters. If the  $3\frac{1}{2} \times 2\frac{1}{2}$ " (6.5 × 9 cm.) or  $\frac{1}{4}$  plate (9 × 12 cm.) models are reversed to project on to the floor, 9 diameters enlargement is obtained.

The prices include the lens, (also pillar and baseboard in the  $3\frac{1}{2} \times 2\frac{1}{4}$  and  $\frac{1}{4}$  plate sizes), but no lamp.

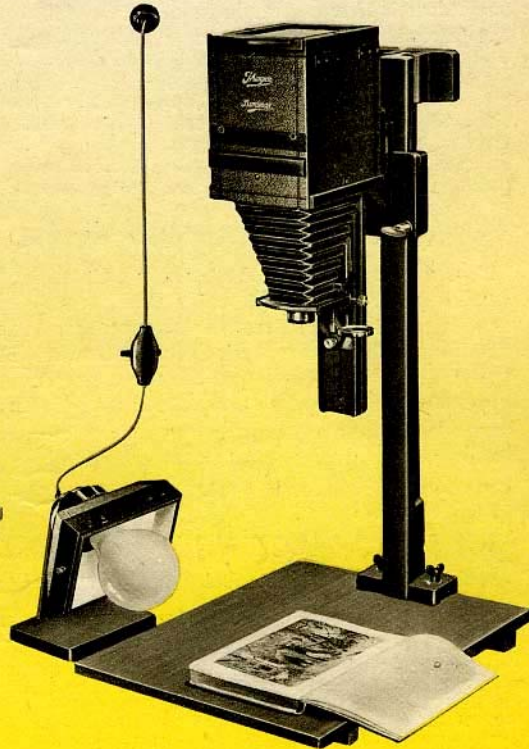
### Prices: Universal Repro-Lumimax

Negative size . . . . .	$3\frac{1}{2} \times 2\frac{1}{2}$ " (6.5 × 9 cm.)		$\frac{1}{4}$ plate or 9 × 12 cm.		10 × 15 cm.		13 × 18 cm.	
	$4\frac{1}{8}$ "		$5\frac{3}{8}$ "		$6\frac{1}{2}$ "		$7\frac{1}{8}$ "	
Lens focus . . . . .	No.	RM.	No.	RM.	No.	RM.	No.	RM.
With Ihagee f/6.3 anastigmat } and	5910	73.—	5920	75.—	5930	89.—	5940	124.—
With Ihagee f/4.5 anastigmat } stop-cap	5911	81.—	5921	87.—	5931	112.—	5941	149.—
With Veraplan f/4.5 anastigmat and iris diaphragm . . . . .	5912	98.—	5922	103.—	5932	195.—	5942	232.—
Printing box for use with above enlarger ( $3\frac{1}{2} \times 2\frac{1}{2}$ " including one mask) . . . . .	5410	8.60	5420	7.50	5430	9.—	5440	12.—

# Jhagee Dresden



Repro-Lumimax



Universal Repro-Lumimax

## Prices: Repro-Lumimax

Negative size . . . . .	$2\frac{3}{16} \times 1\frac{3}{4}$ " (4.5 × 6 cm.)		$3\frac{1}{2} \times 2\frac{1}{2}$ " (6.5 × 9 cm.)		$\frac{1}{4}$ plate or 9 × 12 cm.		10 × 15 cm.	
	No.	RM.	No.	RM.	No.	RM.	No.	RM.
Enlarger only . . . . .	5800	38.—	5810	38.—	5820	38.—	5830	46.—
Pillar for above . . . . .	5200G	7.50	5200G	7.50	5200G	7.50	5201G	13.50
Extra dark slides: 9 × 12 ( $\frac{1}{4}$ plate) or for smaller negatives 10 × 15 . . . . .	7146	1.10	7146	1.10	7146	1.10	7148	1.50
Printing box, for attachment to above enlarger, to convert into rapid printer ( $2\frac{3}{16} \times 1\frac{3}{4}$ " or $3\frac{1}{2} \times 2\frac{1}{2}$ " including one mask) . .	5400	8.60	5410	8.60	5420	7.50	5430	9.—
Baseboard, as illustrated . . . . .	5622	4.50	5622	4.50	5622	4.50	—	—

## The Lumimax Enlarging Frame

(A valuable accessory for use with all Lumimax enlargers.)

This enlarging frame is a practical and simple device for holding the bromide paper in correct register under the Lumimax. The frame opens like a book to insert the paper, and since its inner surface is painted white, the image may be focussed with great ease. Further, the edge is etched black, and shows very clearly the actual edge of the picture, while this black edge serves also to show the amount of white border that the enlargement will be given. A clear glass plate holds the bromide paper flat in position during exposure, while the under side of the frame is fitted with sharp pegs in order to prevent it being inadvertently moved while the paper is being placed in it.

Sizes available . . . . .	6.5 x 9 cm. 3 <sup>1</sup> / <sub>2</sub> x 2 <sup>1</sup> / <sub>2</sub> "	9 x 14 cm. (Post-card)	13 x 18 cm. (7 <sup>1</sup> / <sub>8</sub> x 5 <sup>1</sup> / <sub>8</sub> "	30 x 40 cm. (15 <sup>3</sup> / <sub>4</sub> x 11 <sup>3</sup> / <sub>4</sub> "	50 x 60 cm. (23 <sup>1</sup> / <sub>2</sub> x 19 <sup>1</sup> / <sub>2</sub> "
Number . . . . .	5510	5525	5540	5547	5549
Price . . . . . RM.	3.—	6.—	7.50	15.75	55.—

(The 3<sup>1</sup>/<sub>2</sub> x 2<sup>1</sup>/<sub>2</sub>" size has no glass plate holding the bromide paper.)

## The Universal Enlarging Frame

This device is similar to the Lumimax Enlarging Frame above, and is made in the sizes indicated below. A very simple adjusted set of steel bands act as border masks, so that each frame may be used for other sizes of enlargement, and the most common sizes are shown on the margin of the frame. The inner portion of the frame is painted white for convenience in focussing, while the white border given round the enlargement by the masking strips gives a neat and finished appearance. Sharp pegs on the under side of the frame prevent it from slipping.

Sizes . . . . .	13 x 18 cm. (7 <sup>1</sup> / <sub>8</sub> x 5 <sup>1</sup> / <sub>8</sub> "	18 x 24 cm. (9 <sup>3</sup> / <sub>8</sub> x 7 <sup>1</sup> / <sub>8</sub> "	8 x 10"	24 x 30 cm. (11 <sup>3</sup> / <sub>4</sub> x 9 <sup>3</sup> / <sub>8</sub> "	11 x 14"	30 x 40 cm. (15 <sup>3</sup> / <sub>4</sub> x 11 <sup>3</sup> / <sub>4</sub> "
Number . . . . .	5556	5567	5568	5588	5569	5589
Price . . . . . RM.	7.25	8.80	8.80	11.75	18.50	20.—

## The Thagee Miniature Transparency Printer

This is a special printer, producing transparencies on positive film strips which may be projected in the Kine-Exakta Lumimax B or the Projection Lumimax (special list available for the latter), or else in the usual projection lanterns for miniature films.

The negative and positive films are led through a guide, face to face, and can be moved independently if it is desired to omit one image from the negative on the positive strip. A red filter plate makes it possible to adjust the two correctly before exposure, and a rubber-faced pressure pad holds the two films in close contact. The operation of the printer is particularly simple

The guide may be changed and an alternative one used if it is desired to print on to 2 x 2" (5 x 5 cm.) glass transparencies. Price of the additional guide . . . . . No. 5497 RM. 3.85

### Spare diffusing glasses for Lumimax enlargers:

For enlargers taking	Size of diffusing glass	No.	Price RM.
2 <sup>5</sup> / <sub>16</sub> x 1 <sup>3</sup> / <sub>4</sub> " (4.5 x 6 cm.) to 1/4 plate (9 x 12 cm.)	118.5 x 150.7 mm.	7792	—.70
10 x 15 cm.	127.5 x 180.5 mm.	7794	—.90
13 x 18 cm.	157 x 216.5 mm.	7796	1.20

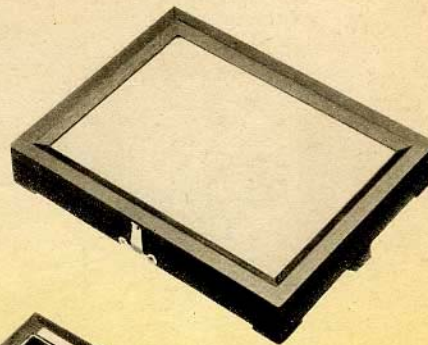
**Test negatives:** For assuring critical focus, we keep in stock special test negatives with fine lines and fine print.

Stock sizes: Plates: 3 <sup>1</sup> / <sub>2</sub> x 2 <sup>1</sup> / <sub>2</sub> " (6.5 x 9 cm.)	1/4 plate (9 x 12 cm.)	
Prices . . . . . RM.:	1.65	1.65
Films: 1 x 1 <sup>1</sup> / <sub>2</sub> " (24 x 36 mm.)	2 <sup>1</sup> / <sub>4</sub> x 1 <sup>3</sup> / <sub>8</sub> " (4 x 6.5 cm.)	3 <sup>1</sup> / <sub>4</sub> x 2 <sup>1</sup> / <sub>4</sub> " (6 x 9 cm.)
Price . . . . . RM.:	1.15	1.15

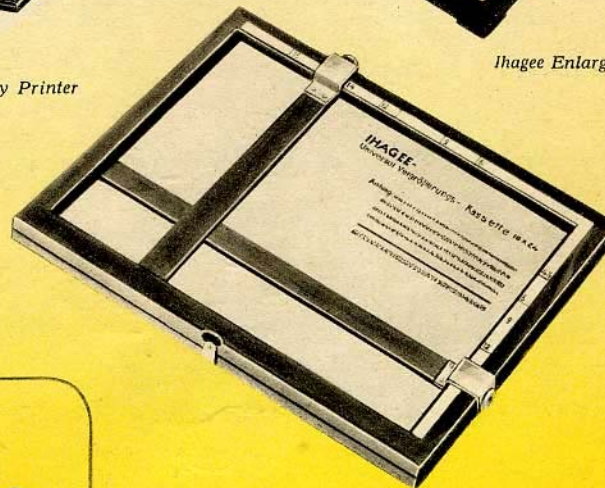
# Ihagee Dresden



*Ihagee  
Miniature Transparency Printer*



*Ihagee Enlarging Frame*



*Ihagee Universal Enlarging Frame*



*Projection-Lumimax*

**The Projection-Lumimax** is described in a special leaflet which will gladly be sent on request.

The **supporting pillars** for the Lumimax models are made in both wood and metal for all sizes up to and including  $\frac{1}{4}$  plate (9 x 12 cm.). The wooden pillar is shown in the illustrations on page 3 (right) and page 13. When it is desired to project the image on to the floor, instead of the baseboard, it is necessary to unscrew the wooden pillar from the baseboard, and to attach it the other way round, so that the lamp-house hangs over the far side from the baseboard. The latter must always be weighted to ensure the instrument balancing.

