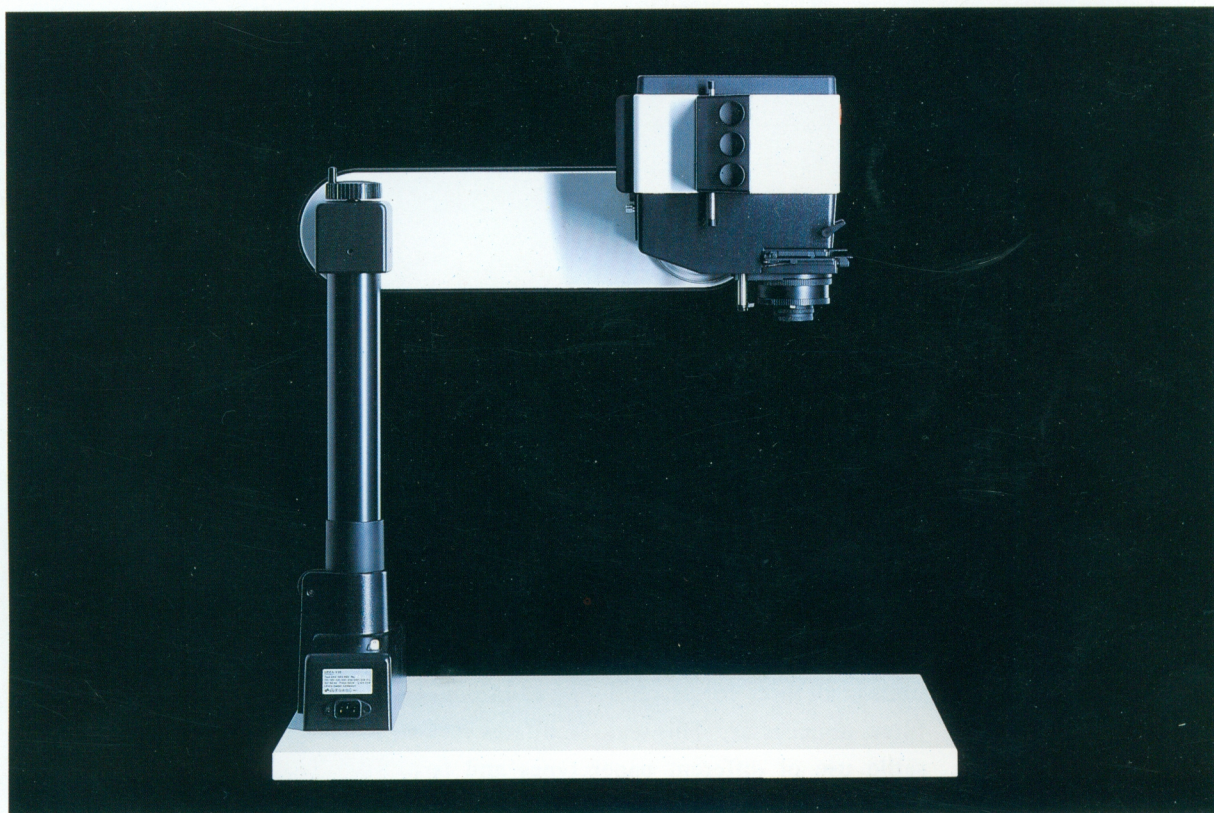


Leica

LEICA V 35

PERFECT ENLARGING



MADE BY LEICA

Enlarging with the LEICA V 35

Leica products encompass a chain of highest performance ranging from observation through photography to photographic reproduction: what Leica Camera lenses have captured on film is reproduced by the enlarger LEICA V 35 without loss and in the same high optical quality. With the LEICA V 35, the photographer is able to bring out the last ounce of quality in his picture, composing it to millimeter accuracy and producing the image in its final form. The exemplary interplay of optics and precision mechanics guarantees exceptional enlargements in true Leica quality. Furthermore, the LEICA V 35 is ergonomically designed to be particularly user-friendly, offering comfortable, fatigue-free operation in the darkroom.

Darkroom harmony in color and black-and-white. The LEICA V 35 is uncompromisingly tuned to darkroom practice, whether for color or black-and-white pictures, slides or negatives. It offers optimum illumination performance and absolute function reliability over decades, as the following special features show:

Highest optical performance covering an extensive 3x to 16x autofocus range. The high performance wide-angle enlarger-lens WAFOCOTAR® f/2.8/40 mm was especially computed for the LEICA V 35 and guarantees high contrast performance, outstanding resolving power and color differentiation: the enlarged image is as excellent as the original.

Optimum brightness and excellent illumination. The special illuminating unit produces optimum brightness and excellent illumination, facilitating short exposure times. That's why the LEICA V 35 easily copes with extreme part enlargements, dense negatives or slides, slow black-and-white or color materials and dense filter settings.

Maximum operating comfort. The sturdy vertical-adjustment arm can be effortlessly moved with one hand, allowing swift setting of the desired format. Its special counter-balanced, ergonomic construction guarantees that even prolonged use does not lead to any fatigue.

Lucid wide-range filter scales. The filter density range extends over 200 densitometric units in all three colors, rendering additional filters unnecessary. This scale facilitates versatile use of different paper types and is optimized for everyday darkroom practice.

High filter precision. The color module's precise control mechanism, as well as the linearity and reproducibility of all filter values, guarantee uniformity in filter settings for all color densities.

Super-effective heat dissipation. Even when the LEICA V 35 is operated for prolonged periods, your picture original is protected from damage through an effective heat dissipation system. Furthermore, all controls remain cool.

Built-in infrared suppression. It is advisable, especially for a number of color materials, to suppress as much infrared radiation from the enlarger light as possible. To this end, an IR-suppression filter built into the illuminating unit removes IR-rays.

Indestructably robust. With its all-metal construction, the LEICA V 35 is tailor-made for prolonged operation. Its stability enables you to make even extreme enlargements without the risk of image blur. The LEICA V 35 is specially built to be maintenance-free, while all movable mechanical parts are covered to protect them from dust and unintentional contact.

High electrical safety. Integrated power supply means that, apart from one mains connection, there are no external cables that could get in your way. Even the transformer for the low-voltage illumination unit is integrated into the base of the enlarger column.



On optical performance

In order to guarantee that Leica's highest optical performance is carried from the original through to the enlarged image, the enlarger lens WA-FOCOTAR f/2.8/40 mm was computed especially for the LEICA V 35. Special glasses with high refractive indices were employed, while the optical features are perfectly matched with the illuminating unit of the LEICA V 35. High contrast performance, resolving power and excellent color differentiation enable reproductions of unsurpassed brilliance.

The special enlarger lens WA-FOCOTAR f/2.8/40 mm. Highest optical performance for enlargements – that's what this 5-element, modified Gauß-lens stands for. Its high imaging power is attainable even at an aperture of 5.6, allowing short exposure times and reduced risk of shake, even with giant or part enlargements. Designed for comfortable operation, the aperture setting can be switched from full value clickstops to continuous adjustment. In addition, the lens may be turned together with its helical focusing mount so that the transilluminated aperture indicator scale is in the desired position.

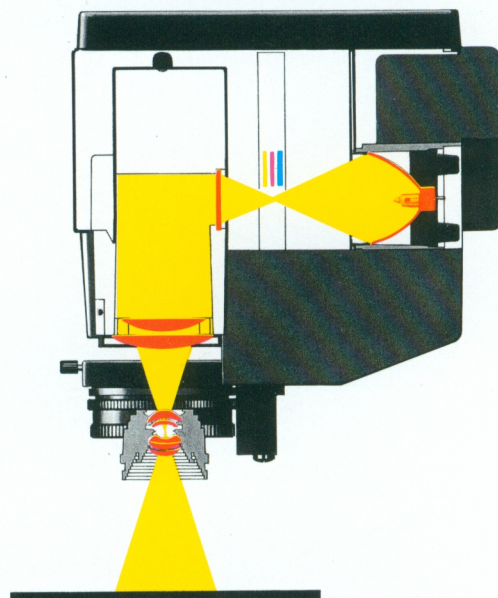
State-of-the-art illumination system. High light-yield, optimum illumination and light-mix, as well as unparalleled chromatic homogeneity for both color and black-and-white enlargements are guaranteed by a light-deflection system according to the principle of "Ulbricht's sphere". It is housed in a mixing chamber made from neutral color polyalkene foam and equipped with a dual process filter.

In order to protect your original picture, an infrared suppression filter on the front part of the mixing chamber effectively blocks heat rays, while the horizontally mounted lamp's special cold-light mirror deflects heat rays, incident on the mirror surface, directly to the rear. Furthermore, heat dissipation is effected at the base of the lamp by a deflecting baffle; another removes heat directly away from the mixing chamber. Finally, the halogen enlarger lamp specially developed for the LEICA V 35 is distinguished by its high switch reliability and a long life-span.

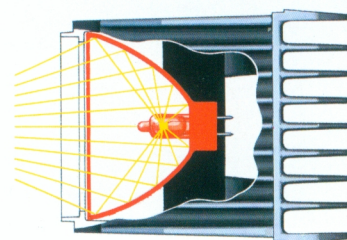
Right: this 16-times part enlargement of the slide at left bottom was achieved with the LEICA V 35.



The special enlarger lens WA-FOCOTAR f/2.8/40 mm.



The advanced illumination system: optimum light-yield and excellent illumination.



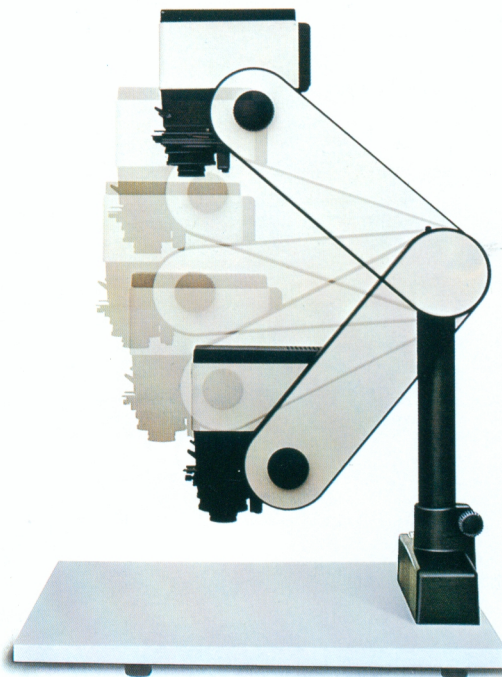
The enlarger halogen lamp: high switch safety and a long life-span.





On Mechanical performance and handling

Rapid, continuous focusing within the automatic enlargement range - without the need for manual refocusing. That means: avoiding eyestrain and saving not only time, but material, too. The wide autofocus range with the enlarger lens WAFOCOTAR f/2.8/40 mm permits enlargements from 72 x 108 mm right up to 384 x 576 mm.



The vertical-adjustment arm

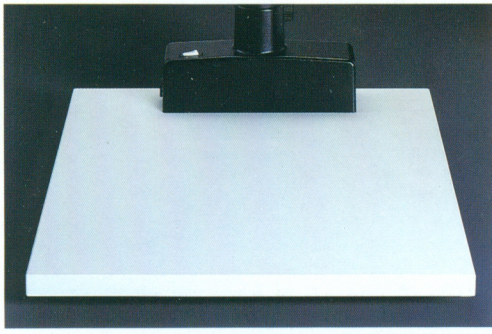
Ideal for part enlargements: the asymmetrically arranged aluminum diecast vertical-adjustment arm rotates around the column; the lamp head in turn around the vertical-adjustment arm. It contains a fully enclosed rolling-band gear and diagonal spring, which accounts for absolutely reliable parallel movement of the lamp head. What's more, secure counterbalancing during vertical adjustment ensures strain-free working in the laboratory. An easy-to-operate brake positions the lamp head so securely that there is no risk of shake during exposure.

The stable diecast column

is finished in black so as to reduce reflexes and has been designed for precise working without shake or blur. It can be turned and raised through 60 mm for manual enlargements on the baseboard. With this method, formats of up to 420 x 630 mm are attainable. Raising the focal plane through up to 60 mm also offers the possibility of adjusting the autofocus mechanism to different heights of masking frames. Manual focusing outside the automatic focusing range is easy: simply focus the helical mount positioned on the instrument. The column has a diameter of 60 mm and a height of 527 mm.



The sturdy, rotatable column finished in black to reduce reflexes.

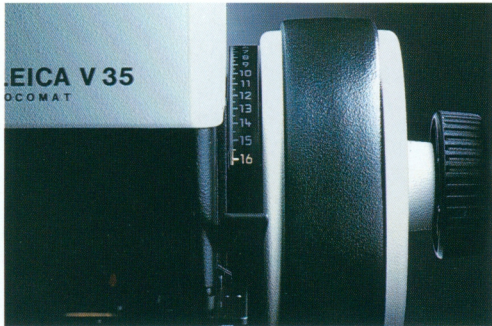


The large, stable baseboard

Most important, especially for part enlargements, is the large professional baseboard with sufficient space to adjust the masking frame. The shock-absorbent 4-point rigid support ensures absolute stability, aided by profile sheet-metal on the underside of the baseboard. An added plus is the resulting storage space underneath: enough for a package of photo-paper!

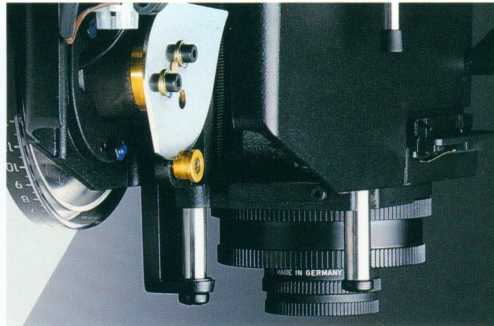
The precisely positioned film stage

offers a maximum light path of 28 mm x 37 mm. Pressure is applied to the negative- or slide holder through a floating spring-loaded plate. By simply raising this plate, you can insert negative- or slide holders into the lamp head rapidly and securely. Even different single negatives or negatives of varying format can be slotted in and secured without removing the film stage. Film strips, once inserted, can also be shifted sideways without effort.



The lucid enlargement indicator scale

Even from a sitting position, you can easily ascertain what enlargement scale has been set: an illuminated indicator is positioned between the vertical-adjustment arm and the lamp head. Ideal for efficient working in the darkroom.



The exact autofocus lens guide

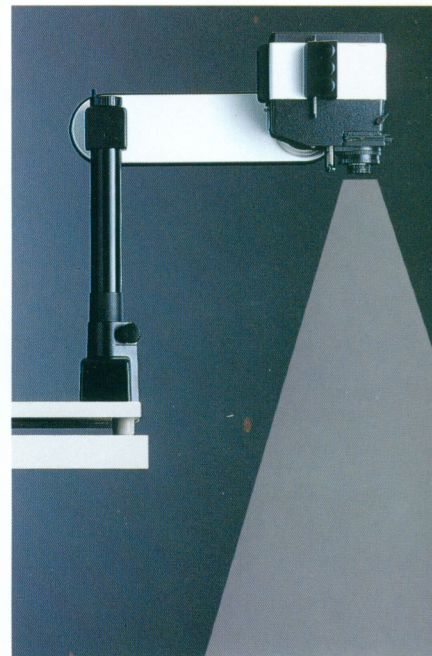
The autofocus device is guided by a precise adjustment cam and perfectly aligned in the factory. This ensures reliable, maintenance-free functioning of the autofocus.

Rapid format masking

Particularly useful is the integrated format masking device with its continuously adjustable rotary controls covering a range from 28 mm x 37 mm to 3 mm x 6 mm.

Easy floor projection

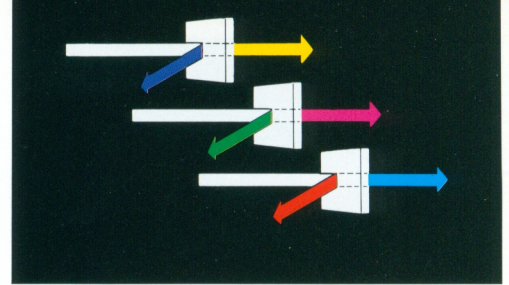
By simply swivelling the column through 180°, giant enlargements of up to 80 cm x 120 cm are made possible. It is here that the performance reserve of the LEICA V35 and the supreme quality of camera- and enlarger lenses becomes truly evident.



On pioneering modular technology

The appropriate light for every type of paper: whether color or black-and-white, whether fixed or variable gradation paper, the LEICA V 35 is optimally equipped to master the task. A range of tailor-made modules that can be exchanged in an instant, account for this practical versatility.

The subtractive color correction filter in the Color Module.



The Color Module

Here, the subtractive color correction filters are controlled by cams and can be continuously adjusted. The filter density range extends through 200 densitometric values for yellow, magenta and cyan. This corresponds to 288 Kodak CC densities and 400 Agfa densities. Because the densitometric range is so extensive, it is possible to expose color and black-and-white materials without additional filters.

The display scale for density values is color-coded and transilluminated for easy identification. The controls are situated on the left of the lamp head and can be operated from a sitting position. Precision matching of all calculated density curves guarantees high filter control linearity and therefore ensures accurate metering of the filter values across the entire range.

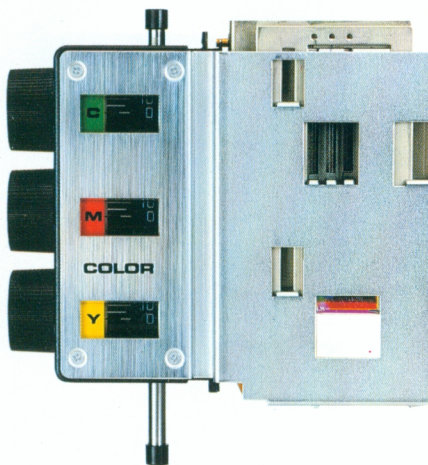
All filters can be simultaneously swivelled in and out of the optical path while the programmed values remain set. In this way, you can quickly assess the enlargement characteristics in full light.

The Variocontrast Module

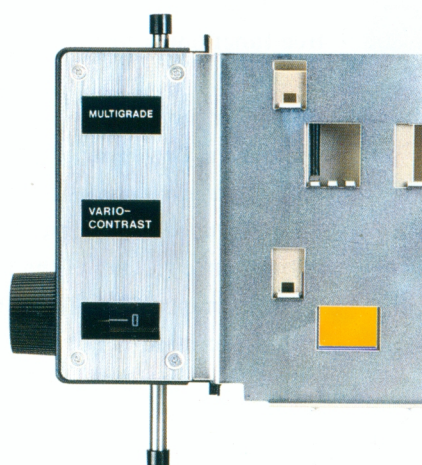
The Variocontrast Module was painstakingly developed for the exposure of multigrade black-and-white bromide papers. The light's color composition is adjusted by two dichroic filters so that the gradation can be set continuously by turning a rotary knob. The exposure time stays constant for the entire gradation range, while the filters can be swivelled in and out of the optical path with full maintenance of the programmed values.

The Black-and-White Module

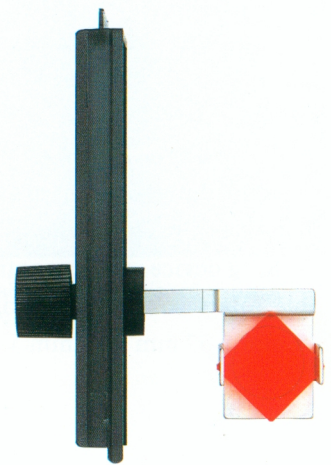
This enables you to expose black-and-white bromide paper of fixed gradation. The integrated red-light filter can, if necessary, be swivelled into the optical path in front of the mixing box. This permits subsequent control of the chosen picture area, even when the bromide paper is already in position on the masking frame.



Color Module.



Variocontrast Module.



Black-and-White Module.

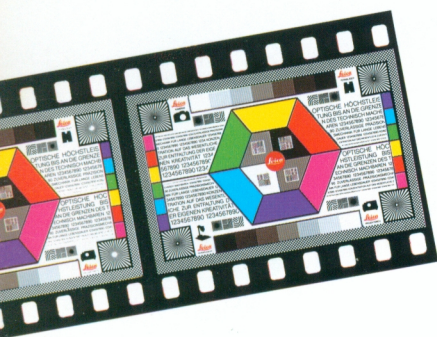


On the useful accessories

Test strips

Compare the LEICA V 35 with any other enlarger on your list. Leica Camera dealers will have test strips ready for you. During comparison, observe the following decisive points:

- Is the image pinsharp from corner to corner?
- Is the image evenly illuminated right to the margin?
- Do the colors appear pure and luminous?
- Are even the most delicate color hues differentiated?



Interchangeable negative holders

with anti-Newton glass pressure plate for the formats:

- 24 x 36 mm (replacement),
- 24 x 36 mm negative holder with pressure glass on both sides,
- 25 x 37 mm negative holder for enlargements with black margin and pressure glass on both sides,
- 28 x 28 mm and 13 x 17 mm.

Glassless negative holder

for the 35 mm format.

Film trays

for enlarging uncut films.

Slide holder

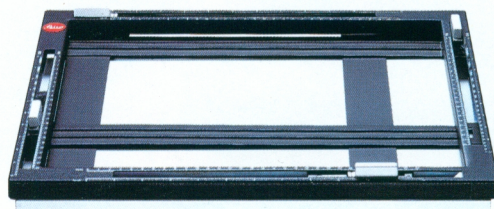
for 50 x 50 mm slides. Convenient color enlargements of slides. Via adapter frames, also for the formats 28 x 28 mm and 13 x 17 mm.

Voltage stabilizer

ideal for the LEICA V 35. Especially recommended for color enlargements and in the event of current (mains) fluctuation. Furthermore, it increases the life-span of the halogen lamp.

Diffusor screen

for integral metering with the FOCOMETER 2 and color analysers available on the market.



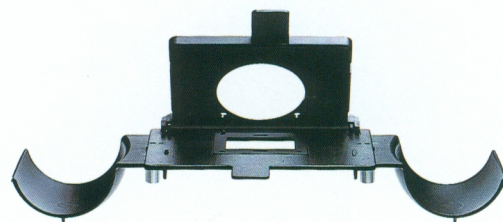
The sturdy masking frame.

The diffusor disk for integral metering with the FOCOMETER 2 and color analysers.

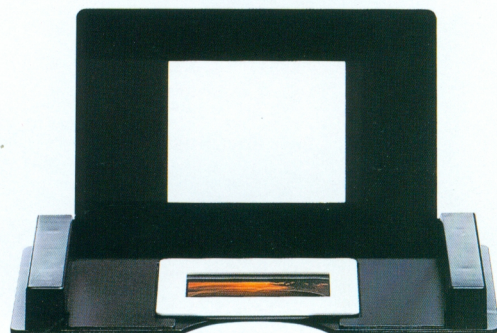
Sturdy enlargement frame

The enlargement frame shown is suitable for all paper formats up to 24 x 30 cm. On account of its flat design and retracting lateral stops, it also accepts large paper formats. Further advantages include: a leading paper clamp, automatic clamping of the frame when open, accurate maintenance of angle values, suitability for the A4 format. It is easy to operate even with small part-enlargements and minute formats.

The top-size enlarger frame model is for all paper sizes up to 30 x 40 cm. It is equipped with a sturdy metal masking frame, supported all round. Turning knobs attached to two individually adjustable masking strips enable you to lock the masks securely in position.



The interchangeable negative holder with film trays.



The slide holder for framed color slide enlargements.

On the technical details

The sum of all its technical details make the LEICA V 35 a perfect darkroom partner, guaranteeing optical perfection and comfortable operation:

Halogen lamp 12 V/75 W with cold-light mirror.

Extremely large autofocus range from 3x to 16x with the WA-FOCOTAR f/2.8/40 mm.

Large professional baseboard with 540 x 590 mm white working surface.

Total height (baseboard to vertical-adjustment arm) about 600 mm.

Weight 21.4 kg (black-and-white), Color Module 0.5 kg.

Input voltage/frequency: 110-250 Volt/50-60 Hz.

Max. transformer output: 100 W.

Fuses: T 330 mA.

VDE-GS test symbol, interference suppression symbol, SEV, Semko, Nemko, Demko, CSA and UL safety symbol.

LEICA V 35

Autofocus range 3x to 16x with high-performance WA-FOCOTAR f/2.8/40 mm lens	Order No.
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Black-and-white model, adjustable 110-250 V _____	17407
Color model, adjustable 110-250 V _____	17411
Variocontrast model, adjustable 110-250 V _____	17412

Accessories for the LEICA V 35

Negative holder 24 x 36 mm (replacement) _____	17003
Negative holder 28 x 28 mm _____	17007
Negative holder 13 x 17 mm _____	17424
Negative holder 24 x 36 mm with pressure glass on both sides _____	17002
Glassless negative holder 24 x 36 mm _____	17009
Negative holder 25 x 37 mm for enlargements with black margin and pressure glass on both sides _____	17012
Slide holder for formats up to 50 x 50 mm _____	17419
Two film troughs for enlarging uncut films _____	17425
Color Module for converting the LEICA V 35 from b/w to color _____	17428
Black-and-white Module _____	17427
Variocontrast Module _____	17441
Red filter _____	17440
Voltage stabilizer	
115 V _____	17437
230 V _____	17438
Diffusor disk for exposure meter and analyser _____	17430
Enlarger-frame	
24 x 30 cm _____	17584
30 x 40 cm _____	17586
12 x 16 " in english divisions _____	17630
Dust cover for the LEICA V 35 _____	17429
Extension ring for near-focusing range (8 mm) _____	17439
FOCOMETER 2/220 V _____	17444
FOCOMETER 2/110 V _____	17445
Foot (pedal) switch _____	17434
Spare bulb: Philips 12 V/75 W (Philips No. 13 139) _____	038-101.147-000

Profile and technics of the LEICA V 35

Light conducting rod for enlargement indicator

Color Module

IR-suppression filter

Mixing chamber

Heat dispersion baffle

Cover

Lever for
pressure plate

Negative holder

Stage

Rotating ring for
setting aperture scale

Lens

4-knob format
masking frame setting

Diffusor lens

Helical mount with clickstop-ring

Lamp

Lamp housing

Crank for
vertical adjustment

Mains cable

Vertical
adjustment
arm

Counter-
balancing
spring

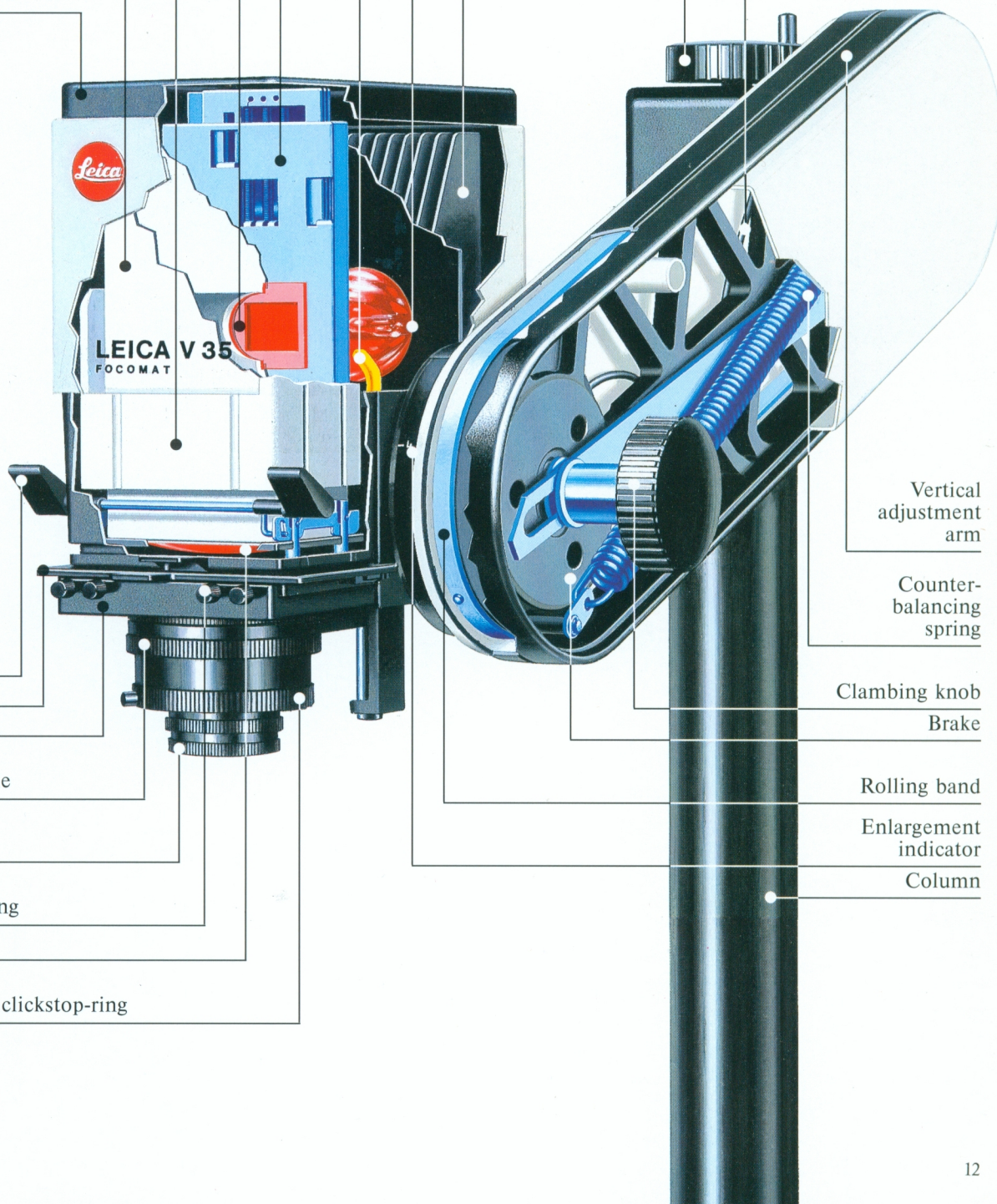
Clamping knob

Brake

Rolling band

Enlargement
indicator

Column





On the automatic exposure meter FOCOMETER 2

The FOCOMETER 2 is a microprocessor-controlled automatic exposure meter and control system for color and black-and-white processing. All controls and displays are illuminated for easy identification in the darkroom. Its ergonomic layout and ease of operation are ideally matched to laboratory requirements. The timing and metering range are designed for professional metering techniques. Three of ten index memories are equipped to compensate different levels of reciprocity failure. All memory returns are battery-buffered to provide approximately six months' backup for all stored programs.

The FOCOMETER 2 offers the following exposure metering modes:

Selective mode: spot measurement field approx. 3 mm x 3 mm

Integral mode: with the diffusor screen in front of the enlarger lens

Semi-integral mode: by partial integrator fitted to the measuring probe; 25 mm-diameter field

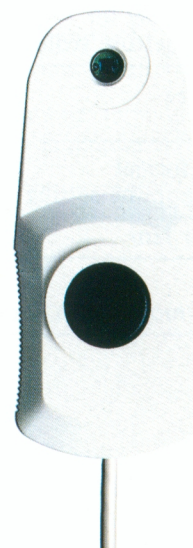
Multi-spot mode: selective mode with automatic computation of mean value; with more than two measurements, the mean is computed from pair of extreme values.

Additional metering functions:

Gradation
Contrast
Densitometry
Illuminance

Manual setting

from 0.1 sec. to 99.9 min.



The metering probe for integral metering with the FOCOMETER 2.

Photographers:
Wilfried Bauer/Visum, Hans-Jürgen Burkard/Bilderberg,
Clive Davis, Horst Stiegler.



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