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Precision built in Switzerland by
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**ALPA
ALNEA**
REFLEX 24 x 36

donated to www.butkus.us

**ALPA
ALNEA**
PIONONS S.A. BALLAIGUES

Mod. 7



Mod. 7



Mod. 5



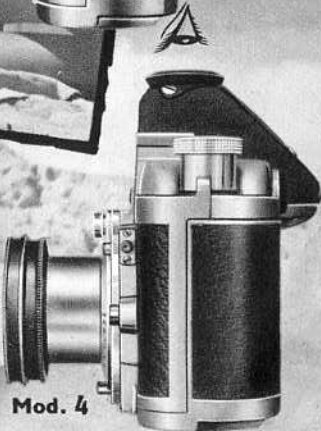
Mod. 7 & 5



Mod. 4



2



Mod. 4

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... through the combined Range/View-finder (ALPA ALNEA, Mod.7)

A large, brilliant, sharply defined image, corresponding to the frame of the standard lens of 50 mm focal length. The combined Range and View-finder is located very close to the camera lens.

The complementary colouring of the centre field gives a strongly contrasted second image, so that for sharp focusing superimposition can be checked with maximum accuracy.

Since the base of the range-finder is arranged vertically, it is best to aim at horizontal lines or corners.

The view-finder can be adjusted to the frames corresponding to lenses of 90 and 135 mm focal length by simply turning a dial. It then serves only for viewing the subject, but is not coupled with the range-finder.

... through the REFLEX PRISM (ALPA ALNEA, Models 7 and 5)

The image is directly focused exactly, as it will appear on the film, on a fullsize ground-glass of 23x35 mm. This corresponds to the size of the area left free by the projection mask - allowing 1 mm leeway in each direction compared with the negative of 24x36 mm.

Parallax is completely eliminated, because the ground-glass image is obtained through the picture taking lens, whatever its focal length. The unique 3-lens system gives so great a magnification that the image appears to the eye even larger than shown in the illustration on the opposite page.

Upright and correct left to right (reinverted), the ground-glass image is exceptionally brilliant and sharp, right up to the very corners. Sharpness of focus, composition and depth of field can be judged at one glance, even at small stops. Following fast moving objects is as easy as it can be. On pressing the release button the image disappears at the last split second only, to reappear as soon as the exposure is finished. This makes it far easier to remember the snapshots actually taken.

There is no better method of checking any type of picture and with any of the interchangeable lenses.

... through the direct REFLEX SYSTEM (ALPA ALNEA, Model 4)

The viewing offers all the advantages of PRISM focusing, the only difference being the ground-glass image which is **reversed right to left**.

The built-in focusing devices of all 3 new ALPA ALNEA models serve for any kind of photographs including teleshots, copywork, close-ups and photomicrography, so that no additional view-finders or reflex-housings are needed. This simplifies the use of all the interchangeable ALPA lenses and extension tubes very much and lowers their cost considerably.

ALPA-ALNEA

is the most complete and versatile 35 mm camera that really satisfies all wishes of the modern photographer.

The name ALNEA is significant! It means "all near." And in fact with the new ALPA ALNEA, even with the standard lens (Switar or Xenon 50 mm) and without any additional equipment, you can take pictures from infinity down to less than 2 feet. This corresponds to a reproduction scale of 1/9, which means that an enlargement of only 9 times produces a picture the actual size of the object.

Just remember, with the usual focusing down to 3 1/3 feet the reproduction scale achieved is only 1/17 of the natural size!

And this is but one of the many novel features of our new camera.

The wide range of interchangeable ALPA lenses includes any focal length for satisfying the special requirements of the advanced photographer amateur, professional or scientist. It opens up prospects of photography that can hardly be imagined. And it is so very simple! All that is necessary is to insert any of the lenses into the camera (with a single turn, thanks to the practical bayonet mount), and it is immediately ready for use. No problems of parallax, no additional view-finders or other accessories. The image produced by the lens is directly reflected on the ground-glass.

On page 6 and 7 of this catalogue you will find several examples of how the various lenses can be used, while their technical specifications are summarized very briefly on page 9. It is planned to add other special ALPA lenses to this list in the near future. The new ALPA ALNEA has also the advantage of a shutter setting controlled by a single knob. The entire speed range from 1 sec. to 1/1000 sec. with any intermediate speed between calibrations can be set directly on the handy rim of the winding knob, whether the shutter is wound or not. Bulb exposure (at P) is also available, which may be used for Time with the aid of a cable release.

The same knob winds the shutter, advances the film and operates the counter - and all this with a rotation of only 160°, less than half a turn! One glance at the knob indicates whether the shutter is wound or not.

ALPA Model 7 is fitted with a self-timer whose tension lever can be set to any desired time-lag up to 15 seconds. It should be mentioned that the self-timer is useful not merely for taking pictures of one's self, alone or in a group, but also for technical purposes. When a picture has to be

taken under difficult conditions, for instance on a high scaffolding, the only way to operate the camera absolutely without vibration is by means of the self-timer.

Internal Synchronization is obtained in a practical and reliable manner by means of two sockets – one for flash-bulbs (with about 16 milli-seconds ignition delay) and the other for electronic speedlights (with zero delay). Flash-bulbs with a long peak for focal plane shutters can be synchronized for all speeds up to 1/1000 sec., whereas electronic speedlights must be used at 1/50 sec. or slower speeds (when the shutter opens completely). A socket located above the view-finder permits attaching the Metraphot Exposure Meter which can remain fitted on the camera in the ALPA Ever-Ready Case.

Loading and unloading the ALPA is done very easily and safely by removing the entire back. Any ordinary cartridge for 36, 20 or 18 exposures can be used as well as Karat cartridges. Access to the picture window is unhindered, which makes it very easy to clean the film track.

Instead of the scales showing film sensitivity or the like, which are often found confusing, the new ALPA ALNEA has a white plate located beside the reflex eye-piece, on which notations concerning the film in the camera can be written in pencil. Rub lightly with a damp finger to erase old notes and make room for new ones.

The ALPA Ever-Ready Case is sturdy and protects the camera completely without hindering its operation. It is designed in such a way that not only the standard 50 mm lenses, but also the interchangeable lenses of 38, 75 or 90 mm focal length can remain on the camera and still allow the case to be closed. Several other ALPA accessories illustrated on the back cover (page 12) of this catalogue, are described here:

The Swissair mechanic checking over an engine is a typical synchronized flash bulb exposure made by René Gardi in the Swissair workshop at Kloten. The gymnast turning a somersault was taken with an electronic speedlight at 1/5000 sec. The 2 different synchronization cords as well as the cable release are pictured below.

To the right of the two photographs you can see the Metraphot Exposure Meter fitted in the socket.

Below is the Usan Camera Holder with 3 tripod mounts which gives the ALPA a firm grip and is especially useful for lenses of long focal length. The set of 6 light metal Tuban Extension Tubes fitting all lenses gives but a slight idea of the practical design of those multi-purpose accessories.

Ocular and Montur are empty rings for adapting individual correction glasses to the range-finder and reflex system, if the photographer does not wear his own glasses for taking pictures.

The 2 sunshades, A 42 Ø and B 52 Ø, serve for the whole range of interchangeable lenses from 38 to 180 mm. They can be attached and removed in an instant and fit absolutely firmly. When not in use they can be placed upside down over the lens (except with the short 38 mm lens) and housed in the carrying case.

All ALPA filters are of superior optical quality (glass dyed in the mass) and coated. Like the sunshades they are available in two diameters serving all lenses up to 180 mm. Lenses of 300 mm and longer focal length are supplied with a special filter set.

Every detail of the new ALPA ALNEA has been carefully studied and successfully tested.

Here are just a few examples to prove this claim:

1. The retractable 50 mm lenses can be pushed back into the ALPA at any time regardless of the position of the mirror, which is withdrawn automatically.
2. If the photographer forgets to pull the lens out, the shutter release requires such a strong pressure that wrong exposures are out of the question.
3. If the control knob is not completely wound (due to haste) the shutter can be released by pressing the button, but remains closed while moving, so that the partly transported film is not exposed. On rewinding once more only the supplementary part of film is advanced, thus eliminating wastage.
4. When using slow speeds or taking time exposures the mirror returns to the viewing position only after the shutter is closed again. The release button therefore does not have to be depressed longer than usual.
5. The partially coloured image produced by the range-finder disappears in the view-finder, when lenses of other than the standard focal length of 50 mm are fitted. Since only the standard lenses are coupled with the range-finder, the latter cannot be used incorrectly for focusing with lenses of other focal lengths.



ALPA ALNEA, Model 7

The most perfect version of all ALPA Cameras.

Main features summarized in brief :

Prism Reflex focusing : Ground-glass image, upright and correct left to right (reinverted).

Individual Range-finder coupled with all standard lenses of 50 mm focal length.

Multi-focal view-finder for 50, 90 and 135 mm lenses.

Self-timer allowing up to 15 seconds time-lag.

Dimensions : *Total weight :*

With Switar or Xenon in special mount,
permitting direct focusing to 1/9 actual size :
(down to less than 2 feet)

5 ⁷/₈ × 3 ¹/₂ × 4" 28 ³/₈ oz

With Alfinon in retractable mount and focusing
down to 3 ¹/₄ feet :

5 ⁷/₈ × 3 ¹/₂ × 3 ¹/₈" 26 ¹/₃ oz

ALPA ALNEA, Model 5

The straightforward Prism Reflex Camera. Prism Reflex focusing :
Ground-glass image upright and correct left to right (reinverted).

Dimensions : *Total weight :*

With Switar or Xenon in special mount for
direct focusing to 1/9 actual size (down to less
than 2 feet)

5 ⁷/₈ × 3 ¹/₂ × 4" 26 ¹/₃ oz

With Alfinon in retractable mount and focusing
down to 3 ¹/₄ feet :

5 ⁷/₈ × 3 ¹/₈ × 3 ¹/₈" 24 oz

ALPA ALNEA, Model 4

The Classic Reflex Camera without prism.

Reflex focusing with upright image reversed right to left.

Dimensions : *Total weight :*

With Alfinon in retractable mount and focusing
down to 3 ¹/₄ feet :

5 ⁷/₈ × 3 ³/₄ × 3 ¹/₈" 22 oz

This camera is an excellent value. It is particularly recommended as a "second string" for owners of Model 7 or 5 who want to take black-and-white and colour photographs side by side.



The Matterhorn,
photographed from the air

38 mm

75 mm

Photo: E. Hofer

90 mm

Photo:
René Gardi

donated to www.butkus.us

Photo : René Gardi



50 mm



The 7 main
interchangeable
lenses for the new



300 mm

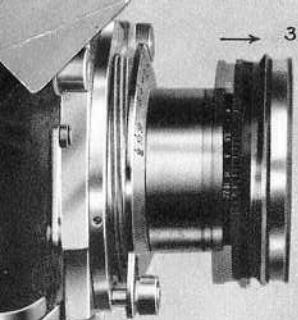


180 mm



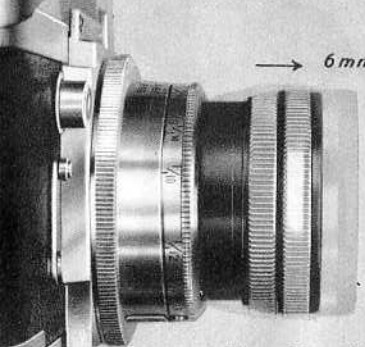
135 mm





→ 3 mm

Standard Helicoidal lever mount with 3 mm travel
The lens rotates with the mount
Supplied with:
ALORAR 50 mm f/3.5 (retractable)
ALFINON 50 mm f/2.8 (retractable)
ALFINAR 38 mm f/3.5 (non retractable)



→ 6 mm

Special ALPA Mount with rectilinear guide and 6.1 mm
Supplied with:
ALFINON 50 mm f/2.8 with preset diaphragm
SWITAR 50 mm f/1.8 with or without preset diaphragm
XENON 50 mm f/1.9 without preset
(Xenon 50 mm f/1.9 with preset diaphragm has a special helicoidal mount with 4.3 mm travel)



→ 20 mm

Lens Focusing Mounts for ALPA ALNEA Cameras (all models)

Relative reproduction scale:

focal length in mm	referring to 50 mm	referring to 28 mm
28	0.54	1
38	0.73	1.4
50	1	1.8
75	1.4	2.7
90	1.7	3.2
135	2.6	4.8
180	3.5	6.4
300	6	10.7

ALPA ALNEA in ever-ready carrying case with fitted exposure meter



Synopsis of direct focusing ranges available with the ALPA ALNEA using the interchangeable lenses

Lens	f/	mm	Direct focusing from—to	Reproduction scale up to	With supplementary lens +1 D	Reproduction scale up to
RETROFOCUS	3.5	28	∞ —0.5 m	1/13	—	—
ALFINAR	3.5	38	∞ —0.56 m	1/13	1 m—0.37 m	1/9
ALORAR l.m.	3.5	50	∞ —1 m	1/17	1 m—0.5 m	1/9
ALFINON l.m.	2.8	50	∞ —1 m	1/17	1 m—0.5 m	1/9
ALFINON r.g.	2.8	50	∞ —0.55 m	1/9	1 m—0.4 m	1/6
XENON r.g.	1.9	50	∞ —0.55 m	1/9	—	—
XENON aut.p.	1.9	50	∞ —0.80 m	1/14	1 m—0.48 m	1/9
SWITAR	1.8	50	∞ —0.55 m	1/9	—	—
XENAR	3.5	75	∞ —0.46 m	1/4	1 m—0.36 m	1/3.5
TELEXENAR	3.5	90	∞ —0.60 m	1/4.5	—	—
ALGULAR	3.2	135	∞ —1.13 m	1/7	—	—
ALEFAR	4.5	180	∞ —2 m	1/9	—	—
TELE KILAR	5.6	300	∞ —3 m	1/10	—	—

l.m. = lever mount; r.g. = mount with rectilinear guide; aut.p. = automatic preset.
For additional ranges with Tuban, see special instructions for use of extension tubes.

Extensan Mount with rectilinear guide and 20 mm travel. Supplied with:
XENAR 75 mm f/3.5 TELEXENAR 90 mm f/3.5
ALGULAR 135 mm f/3.2 and ALEFAR 180 mm f/4.5

Set of cases for the interchangeable lenses of the ALPA ALNEA



donated to www.butkus.us

Carrying strap

RETROFOCUS 28 mm f/3.5 Angénieux

Angle of field on diagonal of frame: 75°.
Real wide angle lens of excellent performance suitable for indoors, buildings and all other kinds of work whenever a large field is to be covered at a short distance. Very equal illumination of the frame.
Mount of special \odot without possibility of using sunshade and ALPA filters.

ALFINAR 38 mm f/3.5 Old Delft

Angle of field on diagonal of frame: 60°.
Wide-angle lens giving excellent performance. Serves whenever a large field is to be covered at a short distance.
 \odot for sunshade and filters A = 42.

ALFINON 50 mm f/2.8 Old Delft

Angle of field on diagonal of frame: 45°.
A universal lens for the most difficult tasks. Gives a very well contrasted image even at full aperture and therefore exceptionally critical focusing on the ground-glass.
 \odot for sunshade and filters A = 42.

XENON 50 mm f/1.9 Schneider

Angle of field on diagonal of frame: 45°.
A universal lens of the Gauss type with 6 elements.
No softness in spite of great speed. Satisfies all requirements of a high-class camera.
 \odot for sunshade and filters A = 42.

XENON

The special mount with automatic diaphragm is already equipped with a sunshade.
For filters needs the large \odot B = 52 mm.

SWITAR 50 mm f/1.8 Kern

Angle of field on diagonal of frame: 45°.
A high-performance lens composed of 7 elements with apochromatic correction in the true sense of the term. Remarkable contrast even at full aperture and relatively little loss of light at the edges in spite of the great initial aperture.
 \odot for sunshade and filters A = 42.

XENAR 75 mm f/3.5 Schneider

Angle of field on diagonal of frame: 32°.
A universal lens especially designed for close-up photography and copy work. Brilliant definition and very little loss of light at the edges.
 \odot for sunshade and filters A = 42.

TELEXENAR 90 mm f/3.5 Schneider

Angle of field on diagonal of frame: 27°.
Thanks to its extremely reduced length this true telephoto lens can be housed in the carrying case fitted on the camera. Brilliant definition, which for portraiture must be softened with the aid of a diffusion disk.
 \odot for sunshade and filters B = 52.

ALGULAR 135 mm f/3.2 Old Delft

Angle of field on diagonal of frame: 20°.
A true telephoto lens twice as fast as the following 180 mm objective. Recommended for sport shots and wherever a short exposure has to be made at a relatively great focal length. The use of a diffusion disk is advisable for portrait work.
 \odot for sunshade and filters B = 52.

ALEFAR 180 mm f/4.5 Old Delft

Angle of field on diagonal of frame: 13°.
A true telephoto lens, which in spite of its great focal length is still very short and handy. For all kinds of nature photography, sport shots etc. Excellent definition at full aperture.
 \odot for sunshade and filters B = 52.

TELE-KILAR 300 mm f/5.6 Kilfitt

Angle of field on diagonal of frame: 8 1/2°.
A true telephoto lens of great magnification, which can still be used under certain conditions without a tripod. Specially recommended for students of nature and for taking pictures of wild animals; suitable also for sport shots, if the light is good enough. Slight softness at full aperture; perfect sharpness already at f/8. Sunshade and special filters \odot 66 mm supplied with lens.

as an instrument in the service of science.

This ideal camera for photography in general is also a most valuable aid for serious laboratory work, for researchers and technicians.

The built-in reflex mirror not only allows the ALPA ALNEA to be used for copywork, close-up photography and photomicrography, with few accessories and no problems of parallax ; it also opens up a practically unlimited field of other applications which can only be hinted at within the limits of this catalogue.

Equipped with the fastest 50 mm lens, the camera can be used for photographing the image on the screen of cathodic ray oscillographs ; it can easily be adjusted as a standard accessory of such large-sized instruments. The camera may also be equipped with an objective especially designed for certain medical purposes permitting to take photographs from 1.1 up to $3\frac{1}{2}$ times actual size on the negative.

The ALPA ALNEA with the Alefar 180 mm lens and no further accessories is used for taking control photographs of high-voltage electric transmission lines and pylons from a helicopter.

Many other applications offered by the unique features and the versatility of the camera can be only fully realized by a specialist in his own sphere. We welcome inquiries and shall be glad to give all possible information at any time.

The following illustrations show, how the camera is used for photomicrography, macrophotography and copywork. They are intended as reminders that nowadays more than ever before, pictures constitute an important and even indispensable part of all studies and reports.

ILLUSTRATIONS ON THE OPPOSITE PAGE :

The ALPA ALNEA can be adapted to a microscope with the aid of the Micrano Clamping Ring, which fits the eye-tube. Connection between this ring and the camera is obtained with the help of standard Tuban Extension Tubes, which also fit all interchangeable lenses for close-up and copywork. (Fill out questionnaire for diameters.)

The reflex system enables the scientific photographer to check the image, right up to the moment of the exposure. The viewing angle of 45° (Models 7 and 5) permits a comfortable position of the head, the same which modern microscopes aim at in the case of direct ocular observation. If the model 4 is used, the eye-piece is located laterally.

Indoors, the combination of the ALPA ALNEA with the light weight, easily assembled MACROSTAT stand serves for the reproduction of books and other printed matter as well as for perspective macrophotographs of all kinds.

Outdoors, the same combination, equipped with ground spikes, can be driven into the ground and serves for taking all kinds of nature photographs. Botanists, geologists, gardeners and breeders will find it equally useful. A special booklet will soon be available for those who are interested in this type of photography.

Photomicrograph, by Dr. G. B. Pineider of Florence, representing degenerated skin tissue.

Macrophotograph : In late autumn leaves fell on growing mushrooms. One leaf, rendered heavy by moisture, has adhered directly to the head of the full-grown mushroom forming an embossed mould. The exposure could be made on the spot without sun, with light reflected by the special concave mirror with groundspike.



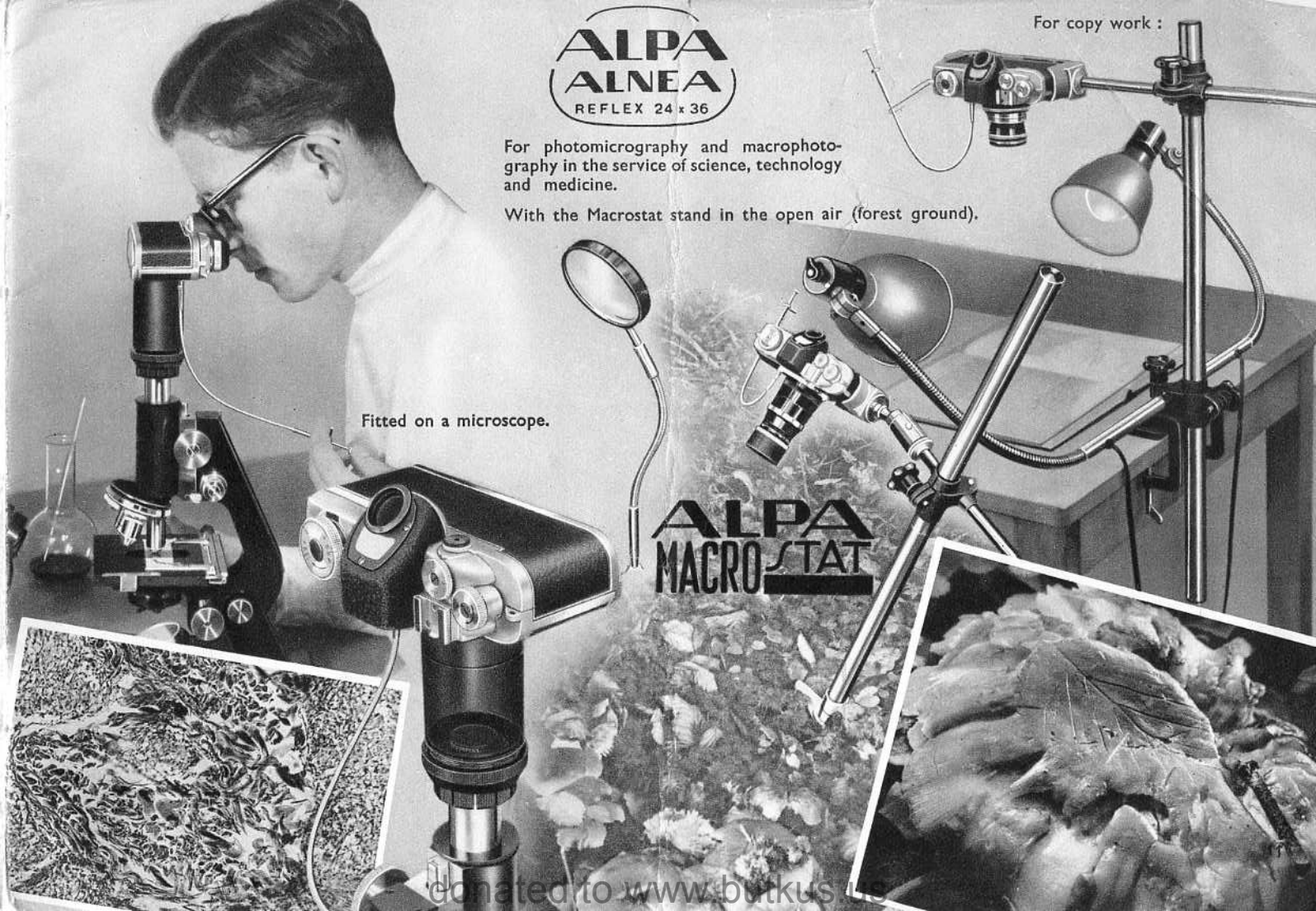
For copy work :

For photomicrography and macrophotography in the service of science, technology and medicine.

With the Macrostat stand in the open air (forest ground).

Fitted on a microscope.

**ALPA
MACROSTAT**





Photograph taken with electronic speedlight at 1/5000 sec.

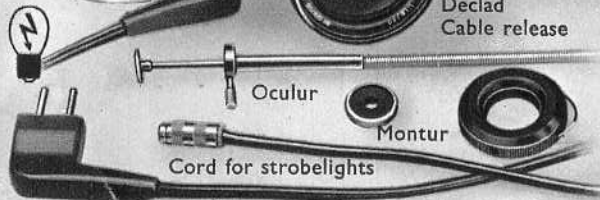


Metraphot exposure meter in camera socket

Synchro-flash photo at Swissair hangar



Declad Cable release



Oculur

Montur

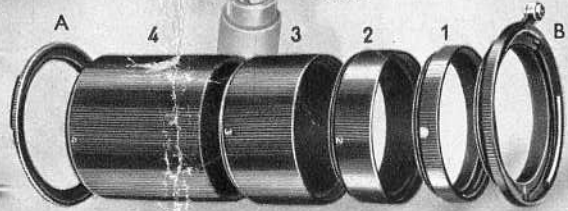
Cord for strobolights

Cord for flash



Usan Camera Holder

Tuban Extension Tubes



Sunshades
A = 42 mm Ø B = 52 mm Ø



Donal Supplementary Lens



Filters

A = 42

B = 52