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MINICAM

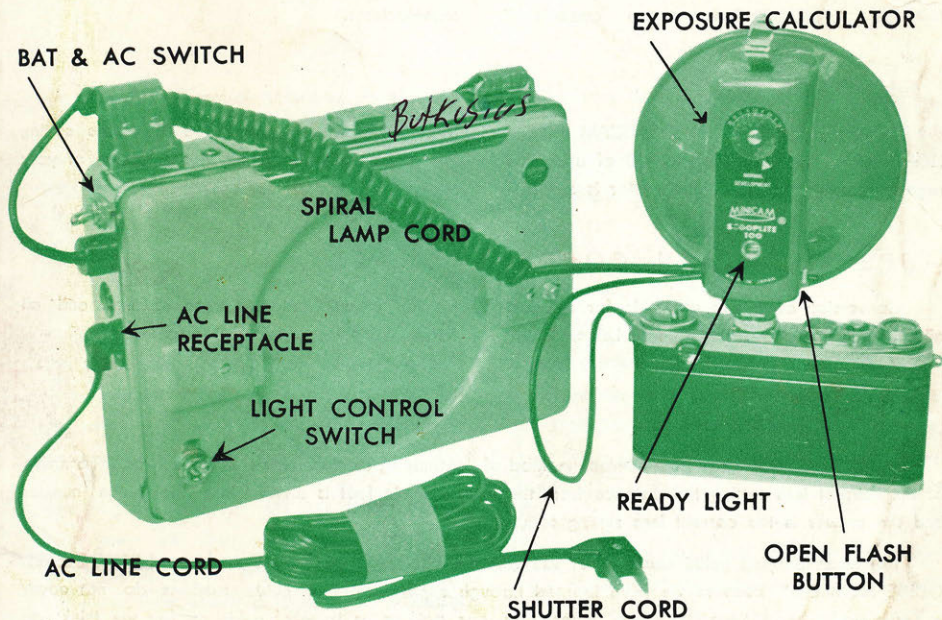
SPEEDLIGHT 40,70 and 100

INSTRUCTIONS FOR USE

BATTERY OPERATION

Place toggle switch on battery operation "BAT" position. Plug spiral lamp cord into receptacle located next to toggle switch. Open the battery compartment located at the back of the power-pack unit. Remove the plastic film cover from battery. Insert battery, terminal down, making sure that prongs contact terminals in right direction.

When the ready lamp lights up, the unit is ready to be flashed. Test to insure that the unit is assembled properly by pressing the open-flash button located on side of lamp. Wait for the ready lamp to light each time before flashing. If there is a delay between pictures, the toggle switch should be placed on "AC" position to conserve the battery.



AC OPERATION

Place toggle switch on "AC" position. Plug spiral lamp cord into receptacle as above. Insert AC line cord into AC line receptacle. Insert the other end of the AC line into a 100-110 Volt wall outlet.

When the ready lamp lights up, test the flash by pressing the open-flash button. Wait for the ready lamp to light each time before flashing.

CONNECTING TO CAMERA

The MINICAM SPEEDLIGHT flash lamp mounts on the accessory clip of your camera. The lamp-to-shutter cord is connected to the synchro terminal of the shutter. Since some cameras have

shutters fitted with bayonet type terminals, on attachment converting the MINICAM SPEEDLIGHT connection to the bayonet type is included with this unit.

SYNCHRONIZATION

The MINICAM SPEEDLIGHT will synchronize with any shutter having "X" type synchronization. IT IS IMPORTANT TO SET THE SHUTTER ON "X" POSITION BEFORE ATTEMPTING FLASH PICTURES.

For cameras which do not have built-in "X" type synchronization, it is possible to use the MINICAM SPEEDLIGHT for taking "open-flash"

pictures. To do this the camera is set on a tripod or steady support, the shutter is set on "B" and the flash is fired by pressing the open-flash button an instant after opening the shutter.

If you are not sure which type synchronization the shutter of your camera has, it is best to refer to the instruction furnished by the manufacturer.

SHUTTER SPEED

Since the flash of your MINICAM SPEEDLIGHT always last for about 1/500 of a second regardless what speed your shutter is set at.

It should therefore be noted that lens setting you select will determine the exposure of your pictures and not shutter speed.

SPECIAL FLASH CORDS AVAILABLE

Conversion cords are available for any and all types of cameras, including the Leica, Rollei,

Nikon, New Contax, Canon, Exakta and all 35-mm, spring-type and reflex cameras.

GUIDE NUMBERS

Guide numbers are the most common method of determining exposure for electronic flash. To arrive at the correct lens setting the distance from the flash lamp in feet is divided into the guide number and the answer is the correct lens setting to use.

The accompanying guide numbers for use with the MINICAM Speedlight are termed "SUGGESTED GUIDE NUMBERS" because we have learned through experience that guide numbers do not cover every situation and have therefore given you our opinion as to what guide number we think you should use for various films.

It is recommended that the photographer establish his own guide numbers for the MINICAM Speedlight based on these figures and experience.

Remember that the type of subject also affects the exposure of flash pictures. A general rule to follow is: THE LENS OPENING SHOULD BE INCREASED BY ONE STOP WHEN PHOTOGRAPHING DARKER SUBJECT MATTER.

GUIDE NUMBER TABLE OF MINICAM SPEEDLIGHTS (Group LA)

Film Speed		Kodachrome Daylite Fuji, Sakura Color	Ektachrome Anscochrome	Plus X Fuji, Sakura SS	Tri X Fuji, Sakura SSS
Guide Numbers		(ASA-10)	(ASA-32)	(ASA-100)	(ASA-200)
SPEEDLIGHT	40	20 - 25	30 - 40	70 - 80	100 - 110
SPEEDLIGHT	70	30 - 35	45 - 56	90 - 110	150 - 180
SCOOPRITE	100	45 - 56	60 - 80	140 - 160	200 - 240

1. To eliminate the need of calculating, the Minicam Exposure Calculator on the flash lamp tells you exactly what exposure to use for every flash picture.
2. Simply set the guide number for the film you plan to use at the white diamond. The correct lens opening to use will appear at the "lamp to subject in feet" number.
1. In as much as the Minicam Electronic Flash Unit have comparatively high voltage output, it is advisable not to touch the electrodes of the units. Contact with the electrodes can result in an electrical shock.
2. Charging of capacitor will be taken place only when the flash lamp's spiral cord is inserted into power pack receptacle. It is prevented from unwilling consumption of battery, if the flash lamp and power pack are disconnected during carrying.
3. Maximum flash output is obtained within 3-5 seconds after the ready light goes on. This time is required to insure that the capacitors are in a state of "full charge".
4. If you want to prolong the life of your battery and shorten the recycling time, be sure to reform the capacitor. Plug your MINICAM SPEEDLIGHT into home current outlet for 10 to 15 minutes if you did not use it for one week or more.
5. In as much as the strobe units' carrying cases are made of plastic composition, it is unadvisable to place the units too near flame or strong heat. The cases are fully guaranteed against all normal or climatic conditions, and with just a little care should easily last the life of the strobe units.

MODEL	Output	Color	Guide No.		Recycling		Power	No. of Flashes	Flash	Weight of Unit
	(Joule)	Temp.	ASA-10	ASA-100	AC	Battery	Source	Per Battery	Duration	w/o Battery
SPEEDLIGHT										
40	40	6000°K	22	75	5	5	240 V. B 110 V. AC	1000	1/500	1.8 lbs
SPEEDLIGHT										
70	70	5500°K	32	100	5	8	240 V. B 110 V. AC	350	1/300	2.7 lbs
SCOOP-LITE										
100	100	5500°K	40	150	5	7	270 V. B 110 V. AC	500	1/300	3.0 lbs

MINICAM family of quality speedlights are represented in the two leading groups :

MINICAM recommend the advanced amateur and professional cameramen to use Group LA which is more troublefree in operation and easy in handling the unit.

Group DWA is recommended for the novice or amateur camera fans who take their several pictures as just a hobby and those who are located inconvenient to get laminated batteries for replacement and of course cameramen having ample knowledge of speedlight.

MINICAM

... neat and
compact ...

SPEEDLIGHT PROFESSIONAL 200 *De Luxe*

GUIDE NUMBER
70 - 80
FOR
ASA-10 COLOR

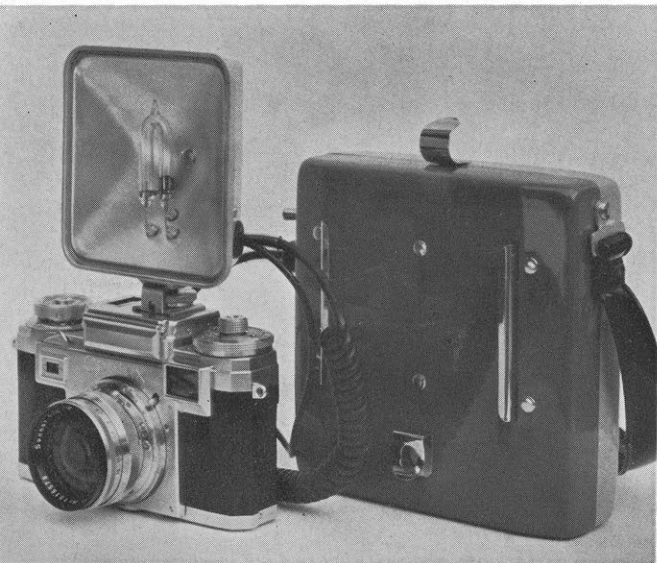
WEIGHT
ONLY 9.3 Lbs



FEATURES:

- 1) Sufficient light output 200 w/s for all press cameras.
- 2) Changeability of SPEEDGRAPHIC gun head; shutter by solenoid.
- 3) Built-in Half Power Switch for hi-speed films.
- 4) Convenience: attached to all cameras using MINICAM BRACKET.
- 5) Great Economy: 1/3 of the same by American and German.
- 6) Recycling by AC line; the shortest recycling time required 3 - 5 sec.
- 7) One set of high voltage batteries flashes 300 - 400 times.
- 8) Compactness: fit into a handsome gadget bag; flash-head in a outside pocket and power pack stored in the bag.

MINICAM FAMILY OF QUALITY SPEEDLIGHTS



MINICAM

SPEEDLIGHT 40

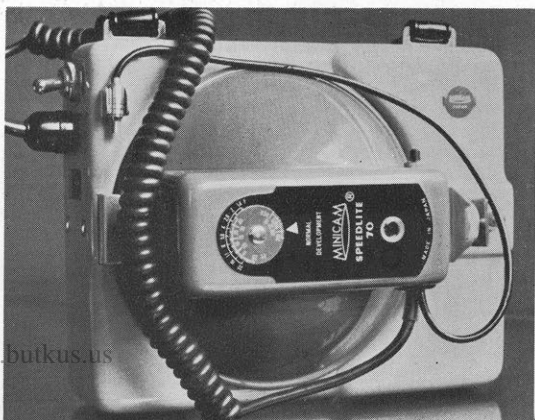
Expressly designed for the amateur, the MINICAM 40 replaces the MINICAM V, now out of production. The 40 features a vastly improved power circuit which combined with a

super efficient flash-head reflector of new design, results in the full power of 40 watt seconds being sufficient for picture taking under all but the most difficult conditions. The 40 is extremely portable and very economical to use. Operates off one 240 volts BL-0160 battery or 100 - 115 V. AC household current.

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SPEEDLIGHT 70

With its' 70 watt second light output, the 70 is an ideal speedlight for the camera fan who wants performance coupled with reliability and speedy handling. Fast recycling times make it an excellent companion for use with lever wind 35 mm cameras. Color photography with 70 presents no filter problems as light emitted approximates daylight. This feature gives better skin tones in black and white pictures too.



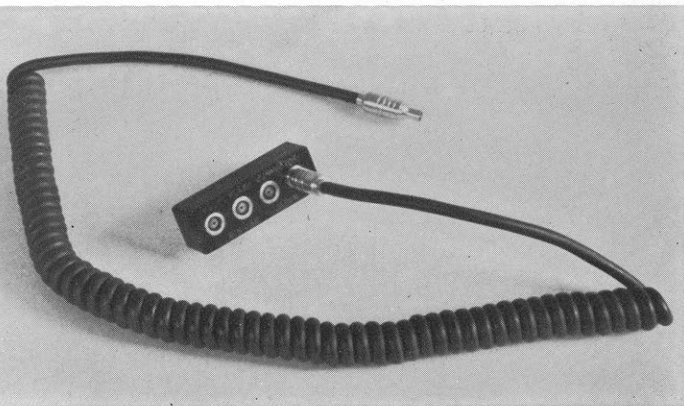
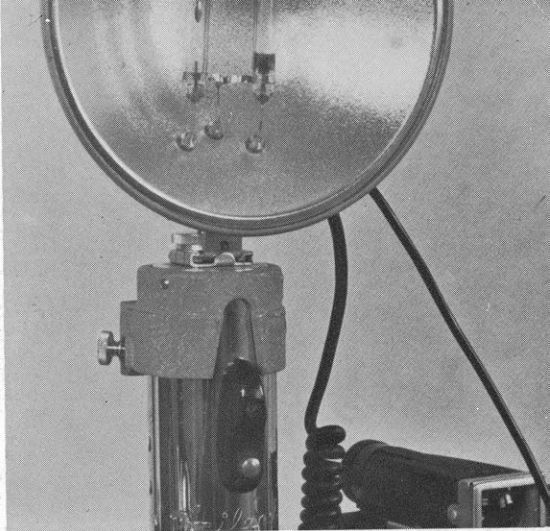
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FLASH-HEAD ADAPTER FOR PRESS CAMERA FLASHGUNS

Many press photographers prefer using a solenoid for tripping the shutter of their cameras even when taking speedlight pictures.

The MINICAM ADAPTER may be used for solenoid tripping by simply replacing the normal flashgun reflector with MINICAM ADAPTER and

attached speedlight flash-head. Note : Camera lense must have X that is speedlight synchronization.



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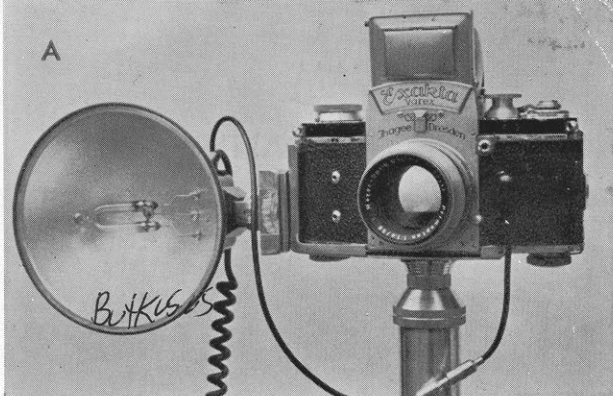
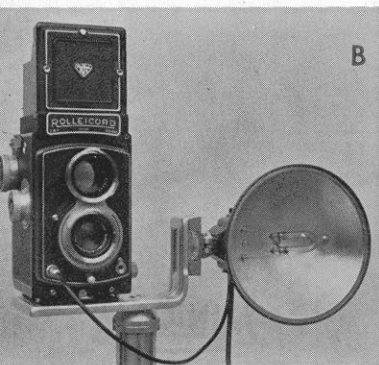
MULTI FLASH CONNECTOR

PAT. PENDING

Photographers using this device can use, one, two or three separate flash units at the same time utilizing a single synchronizing cord from the camera to the connector. The synchronizing cords from the independent speedlights are plugged into the connector, then, when the camera shutter is released all units connected will flash simultaneously. Use multiple speedlight to set up for portraits of children, and other lively subjects to obtain professional results.

MINICAM

CAMERA BRACKET WITH SPEEDLIGHT CLAMP



The MINICAM SPEEDLIGHTS are designed to attach to your camera by sliding into the accessory shoe on the camera. But, some of the popular cameras such as EXAKTA VX, CONTAFLEX, ROLLEIS, PRACTICA, PENTAX and MIRANDA do not have an accessory shoe. If, you own such a camera, the SPEEDLIGHT can be attached to a special MINICAM BRACKET, please see the illustration;

A for the EXAKTA VX and B for the ROLLEICORD.

We, at MINICAM will do our best also in the field of "after service", but to those who live in districts where we have no agents, we will furnish you with a special instruction booklet for repairs along with circuit diagrams for instruction of repair station technique in your vicinity. As the repair of electronic flash units requires ample technical knowledge and experience, you had better not overhaul it by yourself. Should servicing of any kind be necessary, please contact us for our servicing or send us the unit.

Being an electronic device, most of the parts used are readily available from radio & television stores but if the component needed is not available, MINICAM will be happy to supply it on request.

MAKERS OF THE WORLD'S FINEST FLASH EQUIPMENT
MINICAM RESEARCH CORPORATION President: M. HORINO

81 Nakanecho, Meguro-ku, Tokyo, Japan Tel: (78) 0106-8.

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www.butkus.us

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HOW TO USE **SUPER ANSCOCHROME®**

DAYLIGHT TYPE

COLOR FILM FOR ROLL AND 35mm MINIATURE CAMERAS

Super Anscochrome is a super speed color film for use in cameras having variable lens and shutter settings. Because of its high speed, Super Anscochrome is not intended for use in simple fixed focus cameras, such as the Ansco-

flex and Readyflash; for these cameras, use regular Anscochrome film.

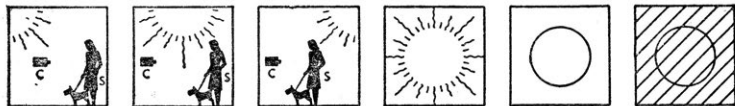
Super Anscochrome is balanced for exposure by average sunlight. Excellent results can also be obtained with other illumination sources such as electronic flash or blue flashlamps.

*EXPOSURE INDEXES: DAYLIGHT 100

TUNGSTEN 40 (with 80B Filter)

*Ansco Exposure Indexes are suitable for use with meters calibrated in accordance with ASA specifications.

BASIC DAYLIGHT EXPOSURES AT 1/100



Bright Sunlight

Front Lighted	Side Lighted	Back Lighted	Hazy Sun	Bright Overcast	Dull Overcast
f/16	Between f/16 and f/11	f/11	f/11	f/8	f/5.6
Equivalent LVS Number:					
14½	14	13½	13½	12½	11½

The exposures given are for average subjects under average summer conditions. For light colored subjects, decrease exposure about 2/3 stop; for dark colored subjects, increase exposure about 2/3 stop.

The best lighting for color is that which reaches the subject from the direction of the camera. Avoid dark shadows. When dark shadows are unavoidable, and when photographing nearby subjects, more satisfactory lighting balance is achieved by using supplementary illumination. The following table gives minimum subject-to-flashlamp distance for fill-in flash. Be sure to use blue flashlamps with Daylight Type film.

SYNCHRO-SUN FLASH TABLE

Sunlight Exposure	5B, 25B	2B, 22B
1/100 at f/16	9 ft.	12 ft.

BASIC INDOOR EXPOSURE DATA

Super Anscochrome Daylight Type Film can be exposed with floodlamps—use an 80B filter and an exposure index of 40.

Daylight Type Super Anscochrome can also be used satisfactorily indoors with blue flashlamps. The following table is based on the use of large polished reflectors when photographing average subjects in light colored surroundings.

BLUE FLASHLAMP EXPOSURE GUIDE NUMBERS

	5B, 25B	11B, 40B	2B, 22B	6B, 26B
Open to 1/50†	170	200	250	175 (open)
1/100	135	140	180	100
1/200	98	105	135	70
1/300	84	92	115	44 (1/500)

† For non-adjustable X type flash synchronization, use open to 1/50 numbers at 1/25 second exposure.

Increase exposure 2/3 stop for matte reflectors. When 2B or 22B lamps are used in large studio type reflectors, exposure should be decreased 1/3 stop. To find the exposure, divide the guide number by the lamp-to-main subject distance in feet; the resulting figure will be the recommended f/stop.

ELECTRONIC FLASH GUIDE NUMBERS

Since electronic flash illumination is approximately daylight quality, Daylight Type film is recommended, plus an 81A filter. Electronic flash units may differ appreciably in effective light output, flash duration and color quality of illumination. Therefore, the exposure guide numbers, as well as filter recommendation, may require modification for best results.

Beam Candle Power Second		450	900	1800	2675	4000	7000
Rating	Watt-Second	25	50	100	150	225	400
Exposure Guide No.		42	60	85	100	125	165

Use the guide numbers in the same manner as described under "Blue Flash-lamp Exposure Guide Numbers."

PROCESSING

Super Anscochrome film can be processed by the user in any normally equipped darkroom, using Ansco chemicals supplied in Anscochrome Color Developing Outfits. They are available in 16 oz., 1 gal. and 3½ gallon sizes.

Film processing service is available through your local Ansco dealer, or in the United States film may be returned directly to Ansco Color Processing Laboratory, Building 6, Binghamton, New York. Please include \$1.50 for standard roll and 35mm sizes to cover processing. Films exposed in stereo cameras producing a picture 11/16 x 15/16" can be stereo mounted at \$1.00 extra. (Prices in Canada are slightly higher.)

N.B. Films sent to the United States from Canada for processing, or for return to Canada after processing, are subject to clearance through Customs, and payment of Duty and Sales Tax.

COLOR PRINTS

You can make color prints from your color transparencies using Printon (Ansochrome Type) and a Printon (Ansochrome Type) Developing Outfit, or this service is available through your dealer.

PRESERVATION AND HANDLING

STORAGE OF ANSCOCHROME FILM—Like any high speed sensitized product, Super Anscochrome should be stored in a cool place. Added protection can be given under extreme conditions or for prolonged periods by storing unbroken factory sealed packages in an ordinary refrigerator. Film in unbroken factory sealed packages also may be stored for extended periods under freezer temperatures. When refrigerated, at least three hours should be allowed to regain room temperature before the film is opened.

Exposed film should be developed as soon as possible especially in warm damp weather. Even under ordinary conditions of temperature and humidity, delays between exposure and processing which extend over periods of many weeks or months may cause serious changes in color rendition of the final transparencies.

STORAGE AFTER PROCESSING—Super Anscochrome transparencies should be kept in a cool, dry place. While temporary exposure to heat and high humidity seldom affects the film, prolonged storage under such conditions may alter the color balance. The colors in Super Anscochrome Film transparencies are organic dyes of the greatest permanence and light fastness consistent with other requirements. When not in use, films should be stored in a container to protect them from light. Mounting of transparencies between glass will avoid abrasions and finger marks during projection.

GENERAL INFORMATION—Minor variations in color balance and speed characteristics are unavoidable in the manufacture of color film. Every effort is made to hold these variations within plus or minus 1/2 stop in speed, or in the case of color balance, variations are kept within the range that can be corrected by one 10-series filter. Other variations beyond our control may affect the characteristics of the film. These include temperature and humidity conditions during storage. Other variations can be caused by unusually long or unusually short exposure times. Production tests on Super Anscochrome Daylight Type are made at an exposure of 1/50 second. For critical work, the foregoing instructions are to be considered a basis for further tests.

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