

Index

Binocular Clamp 22 Blank Exposures 24 Cable Release 14	Exposure Guide 32 Exposure Meter 5, 17, 20, 24, 28	Panaraming 16 Parallax Compensation 4 Picture Series 22
Chain, use of 7, 11, 15, 23 Changing Film Type 21	Film, Choice of 13 Film Gate 10, 12, 25, 26	Reproduction Unit 20
Close-ups 7,15, 23 Cloud Pictures 17 Color Film 13,17,19 Complon Lens 7 Copying 20,31 Copying Arm 20,31 Depth of Field 6,15, 27	Film Grain 13, 24 Film Loading 9, 12, 25, 26 Film, Scrotches 25 Film, Unloading 10, 26 Filters 8, 17 Flosh Pictures 18 Focusing 6, 15, 23 Hazy Dovs 17	Safety Chain 7,11,15,23 Sequence Shots 22 Shutter Release 5,8,12,16 Shutter Speeds 4,16,17,18,20,23 Snapshot Setting 6 Spacing, un-even 24 Sports pictures 16
Developing Tank 30 Distance Setting 6,15,23	Holding the MINOX 3, 13, 24	Subject Size, Table 27 Telephoto Pictures 22
Enlarger 31 Errors 23, 24, 25 Exposure Counter 9, 10, 12, 24	Lens Window 8, 12, 23, 24 Measuring Chain 7, 11, 15, 23 Mountains 17	Time Exposures 14 Tripod 14 Tripod Clamp 13,14 Viewfinder 4,15,16

Film Gate
(apen)
Snaplack for Back Cover

Sliding Back Cover

Viewfinder

Film Chambers

33



CONTENTS

Tips for best results
The 'best' Film - STEADY - How about Longer Exposures? - "Frame" your Subject - Close-ups of Small Things - How to stop Moving Subjects - The two boilt-in Filters - Flosh is Easy - It's a Colorful World - Copying - Changing the Film Type - Picture Series - Tele-Photography . 13

What happened? 23

Subject Size and Depth of Field Tobles . 29

The MINOX Exposure Meter . 28

The MINOX Silde Projector . 29

The MINOX Developing Tonk . 30

The MINOX Enlarger-Copying Stand . 31

Shutter guide for outdoor pictures

This simple guide will give you good results from two hours after surnise until two hours before sunset. For occurate and convenient determination of shutter speeds for all possible conditions, the MINOX Exposure Meter is recommended.

The property of subject, under the prevailing light coefficient, and the prevailing light coefficient.

	Bright Sun	Hazy Sun		Cloudy
ASA 12 Film (Green Label) AVERAGE LIGHT DARK	100 200 50	50 100 20	20 50 10	10 20 5
ASA 25 Film (Yellow Label) AVERAGE LIGHT DARK	200 500 100	100 200 50	50 100 20	20 50

HAZY Sun — Soft shadows CLOUDY Bright — No sun, no shadows CLOUDY Dull — No sun, dark sky

	Bright Syn	Hazy	Cloudy Bright	Cloudy
ASA 50 Film (Blue Lubel) AVERAGE LIGHT DARK	500 1000 200	200 500 100	100 200 50	50 100 20
ASA 100 Film (Red Label) AVERAGE LIGHT DARK	1000 *1000 500	500 1000 200	200 500, 100	100 200 50

DARK 100 50 20 10 DARK 500 7 Note: Use green filter for shutter settings when using Green or Orange Filter, see page 17.

YOUR MINOX is a precision instrument designed and built to give you excellent pictures under all kinds of conditions, indoors and out. As your constant companion, your MINOX is always ready to catch not only delightful, spontaneous snapshots, but an endless variety of fine pictures of any subject, any occasion, at any time.

This Manual shows you the way to best results with your MINOX. It contains many valuable tips which you will find helpful. Read the various sections carefully so that you will get fine results right from the start.

The first section explains the operation of your MINOX. Read it with the un-loaded caneers at hand—ance you are familiar with the simple operating steps, you will always enjoy the full pleasure of picture-taking with your MINOX.

Part two will help you select the proper kind of film for best results. It tells about filters, flash, class-ups, and many other special uses for your MINOX.

The final passe point and anyong tittle errors which may make

The final pages point out annoying little errors which may make the difference between a good and a bad picture. You will find

the difference between a good and a bad picture. Tou with may it adoy to avoid such mistakes, once you are aware of them.

If you have any questions, your MINOX dealer will always be glad to help, and we invite you to write to us whenever we may be of service to you.

Sole U. S. Distributors

Kling Photo Corporation
235 Fourth Avenue New York 3, N. Y.

HOW TO USE THE MINOX

and Closing the Camera

Illustration 1



To open the camera for picture-taking, place left thumb on Shutter Speed Dial and left forefinger on underside of camera, while grasping narrow sides of camera with the right thumb and forefinger; pull camera open — like a telescope - as far as it will go. After a picture has been taken, push the camera together as far as possible. This "pumping" action automatically advances the film and winds the shutter for the next exposure. IMPORTANT: Pull or push all the way!

The MINOX Enlarger-Copying Stand

While commercial MINOX processing services can give you excellent enlorgements from your films, you will get even greater satisfaction and pleasure from your films, you will get even greater satisfaction and pleasure from you can obtain precisely the results you desire, compose each picture perfectly, and use the poper surface and contrast that best suits the individual subject. The MINOX Enlarger-Copying Stand is equipped with a light source, condenser unit, and lens system specifically designed for ultra-miniature film; as in the MINOX comera, the film is held in a curved position and the highly corrected 15 mm. (33 lens yields prints of critical sharpness. Enlargements up to 11x 14 inches can be mode on the baseboard, while even greater enlargements are possible by means of an accessory reflex mirror. With the lamp house removed, the uprigible becomes the

With the lamp house removed, the upright becomes it support for a Copying Arm to hold the MINOX, other cameras, for photographing documents or smo objects at close range.

Accessory film carriers permit using the MINOX Enlarger for 8 mm, 16 mm or 10×10 mm film sizes.

31

3





MINON Developing Tank

The developing of MINOX black-and-white films becomes a simple and convenient matter with the MINOX Developing Tank.

Developing Tank.
You need no darkroom, You place the film cassette into the "light lock" of the tank, and twist the tank care to unwind the film inside — that's all. The MINOX Tank Thermometer and your watch are the only other equipment you need.

Pre-measured quantities of MINOX dry chemicals for micro-grain development are available in handy packets, ready for solution in water.

Ask your Dealer to show you the simple operation of the MINOX Daylight-Loading Developing Tank.

Holding the MINOX

The illustrations show the most practical way of holding your MINOX: With both hands, and steadied against the face. Such a steady, firm hold is assurance against camera movement during exposure. Keep both thumbs under the camera and other fingers on top to avoid the possibility of covering the lens window. You might practice this hold in front of a mirror to check yourself. The same hold can conveniently be used for vertical or horizontal pictures.





30

The Viewfinder

The luminous frame within the MINOX viewfinder contains the exact picture area that will appear on the film. The viewfinder image is automatically corrected, at all distances, to agree with the picture area. (Parallax Compensation). For extreme closeups (8-10 inches), the picture area lies a frame-width within the luminous frame.

Eyeglass wearers may readily use the MINOX viewfinder without correction lenses.

Setting the Shutter



The length of time the light is permitted to reach the film is controlled by the shutter. The Shutter Speed Dial is conveniently rotated by placing the thumb on the knucled surface while holding the forefinger under the camera and, with the other hand, turning the camera until the desired speed is set opposite the black dot.

MINOX Slide Projector Model 30

There is no greather thrill than seeing your fine MINOX Color Transporencies projected on the screen, All the subtleties of color are brought out in projection.

The MINOX Slide Projector is especially designed for your MINOX slides. It has an efficient light system, with a 100 Wett projection bulb, silvered conceve glass rejuisting lamp socket permits critical alignment of the tilament for even illumination over the entire picture area. Triple-well construction of the all-metal housing assures free air circulation for complete ventilation of the lighting system. A head absorbing filter gives added protection to the transport of the projector in the transport of the projector in the transport of the projector in the MINOX color transportencies for projection in the MINOX side Projector should be mounted in MINOX 30 x 30 mm Transportencies out of film strips.

The MINOX Projector may only be be used with other ultraminioure transportency sizes stown to 15x15 mm.





The MINOX Exposure Meter

. . . tells you the correct shutter setting for any picture at a glance—and "remembers" the setting until you make the next exposure reading.

What's more, a built-in viewfinder lets you pre-view the picture just as your MINOX camera will see it; thus, you can select the best possible angle every time.

you can select the best possible angle every time. Correct shutter setting means better pictures – pictures with fine highlights, good shadow detail, and every subtle tone of the original scene. Color film, particularly, requires correct exposure to assure proper color values. Even smaller than the MINOX comera, the MINOX Exposure Meter is a precision built photo-electric meter with a honeycomb light gathering lens for readings over a wide range of light conditions. It has jewel bearings and is shock resistant.

Supplied with a leather case to match your camera case, and with a chrome chain, the MINOX Exposure Meter is the perfect companion for your MINOX camera. It may also be used with other cameras.

The Shutter Speed Dial may be rotated with the camera open or closed, whether the shutter is wound or not.

The engraved figures are fractions of a second (2 indicates 1/2 second, 1000 is 1/1000 sec., etc.). Intermediate speeds may also be set.

When the Dial is set at "B", the shutter opens if the Shutter Release is pressed down, and remains open as long as the Release is held



Shutter Speed Dial (set at 1/200 sec.)

down; set at "T" (Time), the shutter opens when the Release is pressed down, and remains open until the Release is pressed a second time. B or T exposures should be made only with the MINOX resting on or against a firm support, or with a tripod (see page 14).

Always use an exposure guide, or the MINOX Exposure Meter, to determine the correct shutter setting for existing light conditions.

100

28







Setting the Distance (Focusing)

The MINOX Distance Scale is calibrated from 8" to Infinity (∞). Set the subject-to-comera distance by rotating the Distance Scale until the estimated distance is opposite the black dot of the small bracket. Objects at the set distance will be sharpest but, within a certain range, nearer and farther objects will also appear acceptably sharp. The entire range of sharpness from nearest to farthest objects is called "depth of field".

The near and far limits of the Depth of Field for any distance setting are indicated on the MINOX by the small bracket and incent to the Distance Scole. For example, when set at 6' (Illustration 7), the Depth of Field extends from 4ft to 11 ft; or, when set at 4' (Illustration 6) it reaches from 3ft to 6th. The greatest Depth of Field is obtained with the SNAPSHOT SETTING (small dot half-way between ex-Infinity – and 6ft) as shown in illustration 8. You will flad this setting convenient for all pictures which require quick readiness and fast shooting, (i. e. Sports, Oroups, Street Scenes, etc.); just keop in mind that the nearest object must be at least 6 feet away.

Subject/Field Size and Depth of Field Tables.

Distance Focused On	Subject/Field Size – Inch.	Depth of Field			
co Infinity	-	12' 8" to co			
12*	105 x 77	6' 11/2" to oc			
6.	53 x 38	4' to 11' 4"			
4'	35 x 25 1/2	3' 1/2" to 5' 11"			
3,	26 × 19	2' 57/8" to 3' 91/2"			
2' 47/8"	203/4 x 15	1' 117/6" to 2' 111/4"			
2'	17 1/a × 12 1/2	1' 83/4" to 2' 41/2"			
1' 83/4"	147/s x 107/s	1' 63/8" to 2'			
1' 6"	123/4 × 93/4	1' 41/6" to 1' 81/2"			
1 . 23/4"	101/2 x 71/6	1' 11/a" to 1' 37/a"			
1.	87/6× 6	111/e" to 1' 1"			
107/4"	71/2 x 52/a	101/s" to 113/s"			
10 "	67/4 x 47/8	91/4" to 103/4"			
87/6"	6 x 43/s	83/s" to 91/2"			
8 **	53/a x 37/a	71/e" to 81/2"			

Distances are measured from the front of the camera.

Figures In
light type apply
when distance scale
of camera is set
exactly half-way
between two
adjacent engraved
distance markings.

For convenient measuring of close distances, the MINOX chain is equipped with beads at 8" - 10" - 12" - 18".

27

. . . IF film cassette does not lie flush in both film chambers, so that back cover of camera cannot be closed

This may happen on rare occasions when the film take-up core rests on the teeth of the transport wheel in the film chamber. Simply lift out cassette, pull camera open all the way, and close again until the film gate opens. Re-insert cassette. Close cover.

. . . IF film shows dark areas along edges at intervals

Either the cassette was handled in very bright light or the film was advanced beyond the red dot before un-loading which may result in light entering through the film slit of the cassette.

For scenery without important foreground interest, always set the Scale at Infinity (∞). At this setting, the Depth of Field begins at approximately 12 ft.

For accurate measuring of extreme close-ups (8° to 24°), the safety chain of your MINOX carries small beads at distances corresponding exactly to the close distances engraved on the Distance Scole. With the chain locked in the camera socket, and held tout, exact measurements can be made at 8-10-12-18 and 24 inches (full length). The Depth of Field ranges and Subject Sizes at various set distances are shown in the Tables on page 27.

Always f/3.5 — an Important MINOX Feature

The 15 mm Compton Iens of your MINOX yields such extreme Depth of Field, and together with the slightly curved design of the Film Gate gives such autstanding definition over the entire film area, that an adjustable Iens diaphragm could be omitted — saving you an extra operation necessary with other comeros.

The MINOX always works at full f/3.5 opening.

7

26

The Convenient Filters

You can place the built-in arange or green filters before the lens simply by pushing the knurled slide – above the viewfinder window – towards the lens window. Make sure the desired filter is fully visible in the lens window. When using the green filter, double the exposure time (i.e. use \(\frac{1}{18} \) sec. instead of \(\frac{1}{180} \) sec.] with the orange filter, triple the exposure. For tips on using filters, see pages 16 and 17.

The filters are automatically retracted when the camera is closed. Therefore, subsequent exposures are made without a filter unless the filter is again pushed into position.

Taking the Picture

When you are ready to "shoot", frame your picture in the viewfinder (see page 4), and "squeeze" the shutter release button — don't "punch" it. For critically sharp pictures, the camera must not be jarred during exposure. The shutter release of the MINOX works so smoothly — and without resistance — that you will find it easy to operate.

NOTE: The small circle in the lens window indicates that the shutter is wound, ready for an exposure. If the circle is not showing, simply "push-and-pull" the camera to make it ready.

. . IF film has thin horizontal scratches (telephone wires

Dust is the enemy of your MINOX films. Never keep a film cassette in your pocket without a wrapper. Before loading the camera, blow out any dust particles which may have lodged in the film chambers.

... IF film cassette will not easily drop into camera when loading

The film gate **must be open** when the film is dropped into the camera; be sure to push the camera (with open cover) together about ${}^{1}\!I_{8}^{m}$ to open gate. (See page 9.)

. . If the cassette cannot be removed from camera, or if cassette lid lifts out, but the film and container remain in camera

See previous explanation. Film gate must be open when loading or un-loading cossette. Never use force to remove film. Accidentally opened film may be partly saved if it is immediately wropped in black paper.

25

. . . IF a picture is partly blank

One of your fingers covered the lens window. Be sure to keep fingers clear of lens window during exposure - check your "hold"; see page 3

Either you forgot to set the exposure counter at the red dot when you started the film, or you did not pull and push the camera ALL THE WAY between

. . . IF some of your negatives are very thin, others almost black

Determine correct shutter setting for each picture situation. Use an exposure guide or, better still, the MINOX photo-electric exposure meter

... If some prints show more "grain" than others from the same film

Badly over-exposed pictures have coarser grain. Over-exposure is as undesirable as under-exposure. Use an exposure guide or MINOX exposure meter to get correct shutter speed every time

The Exposure Counter

tells you at a glance how many pictures you have taken on the film. The Counter advances outomatically each time you move the film forward by a "pull-push" of the MINOX.

The Exposure Counter must be set at the red dot between 50 and 0 before a new film cassette is inserted. (Illustration 9). Otherwise, overlapping pictures may result.

Loading

Film cassettes should be shielded from bright sunlight. Always load — or un-load — the MINOX in subdued light, or in the shade. MINOX in subdued light, or in the shade. Set Exposure Counter at read dot between 50 and 0 by "pumping" camera. With camera in pulled-out position, press down an crescent-shaped Snaplock (illustration 10) and slide open Back Cover until both Film Chambers are free. Then "close" camera about 1/s inch to spread the Film Gate open. (This occurs when the snaplock almost disappears in the camera Illustration 11)





LOAD CASSETTE INTO CAMERA ONLY WHEN FILM GATE IS OPEN. Drop cassette into film chambers, close back cover, and push-pull

If the back cover cannot be closed - this is a rare coincidence when the film take-up care is

resting on the teeth of the transport wheel in the film chamber - lift out the cassette. pull the camera open all the way, and close again until the film gate opens. Reinsert cassette, close back cover, and push-pull-push camera once

Un-Loading

Watch the Exposure Counter - 50 is the last exposure! Push-and-pull the camera twice. The Exposure Counter should now be at the red dot. Unload in subdued light. Open back cover and spread film gate (as if to load).

Picture Series and Sequence Shots

Your MINOX - compact and instantly ready to "shoot" - makes it so easy to get spontaneous, un-posed pictures. Whenever possible take a whole series of pictures to tell a complete story. With a little practice, you can take an entire sequence of pictures within a few seconds; simply keep your MINOX at eye-level and "pump" the camera with your right hand to advance film and re-cock the shutter.

Tele-Photography with the MINOX

There are times when you cannot get close enough to a subject to get a large image on your MINOX film - or, in fact, you may want to remain at a distance on purpose. Your MINOX may be attached to any high-quality binocular with the MINOX Binocular Clamp; focusing and view-finding is done conveniently through one of the binocular eye-pieces while the MINOX is mounted to the other one. If you are interested in wildlife, mountaineering, etc. you will find the Binocular Clamp a valuable addition to your MINOX.

WHAT HAPPENED?

You will find it easy to get the "feel" of your MINOX within a short time, and to get fine results with every picture. If you should have a failure at one time o another, check it against these possible errors and learn to avoid a repetition:

... IF the principal subject is not sharp

The distance scale was not set correctly. Always set the distance carefully, especially for close-ups. Use the measuring chain for extreme close-ups.

. . . IF pictures look muddy and out of focus

The lens window probably has a fingerprint or other smudge on it. Clean with soft linen cloth wrapped around a match

... IF there are blurred or double outlines

The camera moved during exposure; (hold camera steady or use tripod for longer exposures), OR subject moved (use faster shutter speed for moving

Film cassette will drop out of camera with slight tapping, or may be lifted out by its bridge. Store the cassette in film box or in black paper until it is developed. Note: Color Films and at 30 or 36 – see film package. Unload after two push-and-pull motions, Advance Exposure. Counter to red dot before loading new film.

CAUTION: Do not advance films beyond the numbers indicated above, as the film would be entirely pulled into the take-up side; this may result in light entering through the cossetle slit during un-loading.

Attaching the Safety Chain

Attaching the Safety Chain

To protect your MINOX against accidental falls, always keep it on its chain. Insert the rectangular plug at the end of the chain into the corresponding Chain Socket of the camera. The spring-loaded dust cover will disappear in the camera. Use the D-ring at the end of the chain in the manner of a screw driver, inserting it into the slot of the plug disc; turn the plug one-quarter turn to the right. (Illustration 12). To remove the chain, reverse these sleps, insert plug will jump out of socket.

11

THINGS TO REMEMBER

Before loading Exposure Counter is set at red dot make sure between 50 an 0

Before inserting or removing film cassette — make sure Film Gate is open

When taking the picture —
keep fingers away from lens window;
hold camera steady; "squeeze" shutter release button

At end of film —
do not attempt to take more pictures than
the film allows (50 on black-and-white;
30 or 36 on color film)

Always—
keep Lens Window clean. Fingerprints or other smudges on the lens window cause un-sharp pictures. To clean, wrap soft linen cloth around match stick.

Changing the Film Type

Some day you may want to take color pictures just when your MINOX is loaded with block-and-white film - or vice versa. Thanks to the MINOX film cassette, it is very easy to "switch" from one film to another at any time.

When you want to change cassettes, "pump" camera once to transport the lastexposed film frame into the take-up end of the cassette. Then remove cassette in the usual manner (see page 10). Note number showing on Exposure Counter; write this

Before inserting fresh film, set exposure counter at red dat between 50 and 0- as described on page 9 - and load in the usual manner

When you re-load the "started" cassette: First set exposure counter three numbers back of the number which you noted when you removed the cassette; example: if you took the cassette out at "28", set counter at "25". Now insert cassette in the usual manner. Pump camera three times. This takes up any slack in the cassette and gets your MINOX ready for the next exposure.

Remember: Load and un-load only in subdued light, or in the shade

12

Color Film does not have as much exposure latitude as black-and-white film Therefore, use correct shutter speed! The MINOX photo-electric exposure meter is particularly valuable in Color Photography. Even slight deviations from the correct shutter speed may result in false color reproduction

As a general rule, color pictures are best taken with the sun slightly to one side behind the photographer's back.

If you are seriously interested in all phases of Color Photography, you will find it orthwhile to read one of the many comprehensive books covering this field.

. . of documents, drawings, books, etc. is easily done with your MINOX. By using a tripod, MINOX Repro Stand, MINOX Copying Arm, or other means of support, you can conveniently copy such matter, getting as close as 8 inches for largest possible reproduction. Use the special MINOX ASA 5 Micro Grain Copy Film, except when copying photographs or illustrations containing half-tones for which regular MINOX ASA 12 or ASA 25 film is recommended. (See tables showing area covered at various distances, on page 27.1

TIPS FOR BEST RESULTS

The "best" Film

The "best" Film MINOX film is available in several different types for black-and-white photography, and for Color Pictures. The black-and-white films vary in sensitivity (speed) to suit every possible need. The sensitivity is expressed in American Standard exposure index numbers: ASA 12 (fores tabel), ASA 25 (fellow Label), ASA 30 (Blue Lobel), ASA 30 (Blue Lobel)

It's a Colorful World

which will help you get fine results from the outset:

results are usually not satisfactory.

Steady!

Get used to a comfortable, steady hold of your MINOX during exposure; experience will show you whether you can get steady pictures even at the slower shutter speeds.

Generally, you will find it advisable to use a tripod or other firm support for shutter

The 15 mm f/3.5 Complan lens of your MINOX is color-corrected, and has an anti-

If you have never taken color pictures before, keep in mind the following suggestions

reflection coating - in other words it is ideally suited for Color Photography.

13



speeds of 1/30 sec. and slower. For all snapshots, use the hold suggested on page 3, always making sure that you "squeeze" the shutter to avoid jarring the camer

How About Longer Exposures?



You may be able to hold the MINOX steady by leaning your elbows on a table or other firm surface, or against a wall; or you may place the MINOX on a glass, ledge, etc. It is best, however, to attach the MINOX with a camera clamp to a tripod. You will find the MINOX pocket tripod a particularly fine and versatile accessory. Only slightly larger than a pencil, this tripod with its swivel top may be used on a table, chair, window sill, or against a wall. It may also be held against your shoulders. The pictures at the left suggest various ways of using the MINOX tripod. As an extra precaution against jarring the camera, always use a cable release for tripod exposures.

Morning and early afternoon hours are the best time for color pictures. At noon the light is usually bluish, resulting in very "cold" colors or an over-all

Color Film yields the best results in bright or hazy sunlight; on overcast days,

bluish tinge. During the hours just after sunrise, or just before sunset, the light is more reddish, resulting in very "warm" colors

Watch for the possibility of color reflections (which may not be visible to the eye): A white dress on a green lawn is never pure white, but faintly green.

19



Flash is Easy

You can get fine pictures with your MINOX right around the clock, because, when daylight or room light is no longer sufficient, you can attach a flash unit to your camera. Even in daylight, you can penetrate deep shadows or lighten scenes

The MINOX may be used with any type of flash source connected to the flash nipple of the camera. The shutter has built-in synchronization of the X-type (it "fires" the flash as soon as the shutter release of the co



			difference is pres	seu/.			
Flash Source Sync		Synchr	ronized at shutter speeds:				
lectronic Flo	ash Units			1/2 second	to	1/500 S	econd
lash Bulbs:	SM, SF			1/2 second	to	1/100 5	econd
	M-2, 5, 8,	25		1/2 second	to	1/20 5	econd

A flash unit made by MINOX is expected to become available soon, very complete flash instructions will be issued at the

1

"Frame" Your Subject

Since the MINOX viewfinder shows you the exact picture area, you can easily comp your picture before you actually take it, so that unimportant or disturbing details are amitted right at the start. Advance planning of composition saves extra work in enlarging, and it gives you precisely the picture you want every time.

Close-ups of Small Things

There is a special fascination in close-ups. A frame-filling picture of a single blossom showing the delicate details of each petal can be more exciting than showing a whole acre of flowers. Therefore: Get CLOSE to the subject! Your MINOX offers you the great advantage that you can get as close as 8 inches without any supplementary equipment or extra lenses. Make the most of this excellent feature. Always use the uring beads of the safety chain to determine the correct distance, as the depth of field at close range is very limited. For instance, when the distance scale is set at 1 ft., the depth extends only from 11 inches to 13 inches. Therefore, accurate distance setting is a must for extreme close-ups. Remember also that, at distances between 8 and 10 inches, the picture area lies a frame-width within the luminous frame of the

How to Stop Moving Subjects

Sports and other fast action call for high shutter speeds - otherwise your pictures may be blurred. But even under unfavourable light conditions, requiring slower shutter speeds, you can stop motion by using professional tricks. It is easier, for example, to stop motion of a subject moving straight toward the camera, or at a slight angle, than it is to "freeze" a subject moving straight cross at right angles to the camera. Or, watch for the "still moment" such as is reached by a swing at its highest point Or, water for the still moment such as is reached by a swing at its nignest point just before it swings back, or by the tennis player during the serve when the ball is at the peak of the toss, and the rocket is about to be swing. Even \(V_{10} \) second will 'stop' such shots. For very fast motion — outomobile races, speed boots, skiling — another well-known professional trick will help you get fine results: Keep the car, boot, or skier centered in the MINOX viewfinder and follow the motion with the camera, releasing the shutter at any instant during this panaraming. The background will be blurred, adding to the impression of fast action, but the subject stays sharp

The two built-in Filters

..... will help you improve your black-and-white pictures. In scenic pictures, green filter will give a blue sky - which would otherwise appear white in the fi

orint — a richer tone, making white clouds stand out clearly. Green foliage, lawns, etc. which would normally print darker, will show a lighter tone and better modulation. Because the green filter reduces the overall amount of light transmitted through the lens, you must double the shutter speed – in other words use 1/100 sec. when the MINOX exposure meter or exposure guide indicates 1/200 sec.

The orange filter - which requires three times normal shutter speed — darkens blue skies considerably, but lightens all reddish tones. Even in full sunlight it produces dramatic skies nd scenes resembling night shots. More important is its ability to produce clear pictures on days when there is a blue heric haze. The orange filter is particularly useful for cloud pictures, snow scenes, mountain photography, and hozy days. DO NOT USE THE ORANGE FILTER FOR PORTRAITS as red lips would appear a

NEVER USE THE GREEN OR ORANGE FILTER WITH COLOR FILM.







17