

-

You have just acquired a Pailland Boles. B8 cinc camera. The name of Pailland Boles is considered the world owe as a hallmark of technical perfection and precision confusionability. Before leaving the factory, your camera was checked over and adjusted with meticiotion throughness.

factory, your camera was checked over and adjusted with meticulous threesughness.

Like my other precision instrument, your causers should be treated with the utused care. Always
remember that my one of the counties Falliant Bolex authorized dealers the world over will be
stall to adobte your us to how to get the best out of your Bolex BS.

Story Bullett Bales 28 is nation nations causes around a world market engagened in it is has where the completion gave filled. Then namely another bullet to control in all convergedance with your desire. He was consens sends concluding an organic selection of the process of the control of the process sends concluding an organic selection of the process of the proc

Important: Should you uninequently appains a supplementary less or lenses, of no matter what resh do not omit to have these adjusted by a Pullind Bales agent for use on year exercise.



Viewfinder focus control

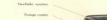
Viewfinder objective

Filming speed control (8 to 64 frames per second)

Cable selected sucket

Exposure times (1/17 to 1/140 second)

Exposure table



Lid fas

changrable lesses

All 8 mm leases with standard type mounts can be used on the Boles B.S.

Thread: 15,8 mm = 5,8" Lens seat to film plane distance T = 12,29 mm Maximum length of threaded section L = 4,3 mm

The distance T corresponds to the distance week the film plane and the face of the turret on which the

and the face of the turret on which the lens rests when acrowed into position.



ats. To acress and assertes the less, hold at the ring R.

hold it by ri

INSTRUCTIONS FOR USE OF

PAILLARD BOLEX BS CINE CAMERA

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- 2 Environment Ellers
- 4 Loading the camera
 - Operation. Intermittent and continuous running Single frame exposures Gable release Locking the mechanism.
- Main parts. Footage counter Speed control Exposure time and filming speed - Viewfinder - Parallas correction - Lens turret.
- Inverting the speed Unleading. At the end of the files, or before.
- 13 Lenson Standard lenses Wide-angle lenses Telephoto lenses
- 4 Shorting. Winding Shorting angle Exposure table Exposure meters -Setting the displaxger - Distance focusing - Filming speeds - Stability of casers - Length of seeses.
- Hists on filming technique. Black-and-white films Color films Indoor shets -Pinning shots - Single frame exposures - Pades.
- N Accessories. Pilters for black-and-white and color films Sandrades Adapter rings - Parallax corrector priors - Lens attachments - Cable releases.
- Habara

COLLIDMENT The standard equipment of the Boley B.S. common com-

- b) I owney take up smoot
- d) I terret dest can
- a) I short cable release
- numbed with the camera



Before using your camera, we strongly recommend that you read through this menual very carefully from

A thorough prior acquaintance with the purpose and use of the various good results right from the outset.

0 --- FILM



Canacity. The Boles BS courses is designed to take advablecours S men film on

Leader. In reality, unexposed 23-ft, speels of double-8 mm files contain somewhat cover 55 ft of files along to the fact that a length of leader about 4 ft lang is allowed for at each end, so that the camera can be loaded and unloaded without forging the film. The leaders are reserved after development, the double-8-mm film is his sected down the middle, and the film is finally returned as a single strip of ordinary

Choice of file. There are several different types of double-run 8 mm black-and-white or color film evailable on the market. Each category is determined by the sensitivity of the emphase to light, and the figures to which this sensitivity is expressed are used as a reference when comulting exposure

Black and white film. Depending on the lighting conditions, the movie-maker has, generally speaking, a choice between either:

a file of medium associtivity (22 degrees Scheiner, or 10 ASA), for outdoor shots in daylight, or a more sensitive film (28 degrees Scheiner, or 40 ASA), for outdoor shots in more light and more expe-

Color film. Double-run 8 mm color film is manufactured in two types:

b) for use in artificial light with flood-type lighting.

LOADING

Windles

the less in a clockwise direction. The camera can also



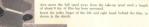
To once the commence Lift up the bigged conjugates you on the camera

To open the pressure and

Dowinding the film

Then remove the take-un smool from the camera. Place the full secol in the rulm of the right hand.

spools close together while this is being done.



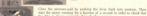
burst the today flower of the left and side band habited the files on

To locast the film to the same Slin the full smool onto its spindle and issert the file into the gate, guiding it with the left index

Slip the take-up speed onto its spindle secondless



take-up speed by hand in order to tighten up the







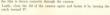


The conces in the shade to

spoid any risk of of the film







The film vasses in front



OPERATION



Continuous running

an upwardly direction.











2nd position Push the release button

Lengthy shots Self filming Push the release button

latermittent rusainn For perfectly stable shots

Use of cable release Stoole exposures For trick effects, cartoon films and so on

Makes it impossible to

Ohis position is determ-Screw the cable release

an unwantly direction.

MAIN DADTS England couples

Audible and of file stand An and the warning signal is beard when the counter registers 25 ft (7.5 m). The speed control enables the filming speed to be varied between 8 and 64

> ione 64 frames ner second, for instance) renduce a slow-motion effect. Exensure time and filming speed Continuous rurning: The exposure times corresponding to filming rates

The feeters complex enterestically indicates the assessed of files that has

Note: The courty extensionally estuary to the studies point when the

Frame-by-frame shots

1/17th second at a rate of 8 frames per second

1/25th second at all other speeds.

Wanteday. The health to constitute to the foreign the constitute that The final The viscelledes is continuously adjustable to match the field covered by lesses

propling to that of a 14" (0.5 perc) or 1/2" (5.5 perc) can be obtained by In order to effort the receivable to wit the consists of manierables who

Parallax correction

catch, which must be lowered in order to remove the print.

The long turnet allows the operator to switch over quickly from a given

less to one of a different focal length (say from a distant view to a near

the execual turnet claims arrow BX-1495, supplied on remost.







INVESTING THE SPOOL Avoid opening the camera in too strong a light, there is a risk that the film may be partly formed.



now on the upper solodle, will be empty again.

When the double-8 mm film has passed through the camera once the cosol must be turned over, allowing the other half of the film to be exposed. As soon as the footage counter reaches the 25 ft. (7.5 m) mark, the motor should be allowed to run

so as to make some that the trailer is fully wound onto the

The camera may then be opened, the 2 spools taken out and inverted, and the camera reloaded, the full social being placed on the upper (film feed) spindle, with the side marked 'II' upperment. When the film has been fully executed, the original Paillard Roley speed supplied with the camera.

UNLOADING

At the end of a secon

As seen as the film, trailer included, has run through for the second time, the camera should be opened and the exposed spool should be stowed away again in its box, which should be closed with adhesive tage to prevent any risk of accidental exposure,

total ansales the comes in too strong a light as otherwise

When speed is only partly exposed

If it is wished to remove a partly exceed socal from the causes, say for the purpose of shouting

a). Check the reading on the fosture counter, and subtract it from 25 ft. (7.5 m) in order

- to obtain the amount of film still recovered.
- c). Once the presume and by means of the layer, and withdraw the two smoot toasthir. taking care not to scratch the film.
- d). Place the speels one on top of another and not them in a light- and ajetishs hav-It is a good idea to put a marker on the film (such as a paper clip or a thin strip of adhesive tape),

Note: Since the leader has already been wound onto the speed, shooting can begin again as soon as the film is back in the consern. inconcetive of whether the letter F (or M) appears on the counter instead of O. To allow for this, however, 4 ft (1.25 m) should be inlitrocted from the amount of unexposed film ascertained as



on the footage counter.









Agfa UV-K 29 C for Agfacolor

designed for use on 16 mm motion picture comeras can also be used by adding a "BAGOM" adapter rise. Owing to the additional brightness generally prevailing in distant views the diaphragm should be

These lenses are used to obtain near or close-up views of subjects of all kinds, such as secution events.

(focal length 1/2" - 10 K or 13 mm) These lenser belong to the cost conset reterior, and an article for one is the article of charge

Wide-soole leaves These lenses are used in cases when the movie-maker wishes to shoot a wide general view of the score

spough to obtain a morel view of a given subject (such as a measurement or other building or an indeed It is also possible to turn a standard 55" less into a wide-angle less by adding a Henry Class wide-angle

attachment (your vanal dealer will be pleased to advise you in this connection).

IENSES

CHOOTING

The regions approxime notated in absorber a film should be carried out

2. Select an appropriate shooting angle, and adjust the field of the view-

5. Set the less with a focal length corresponding to that indicated by the

4. Set the disphragm and forming centrols on the less.

6. Make one that the camera is being held quite steady then start shoot-

7. Keen a check on the length of the 'rule'.

Windles

One complete winding of the motor is sufficient for about 7 feet of film. However it is advisable to wind up the motor after every take, no matter how short. The operator will thus avoid the disagreeable surprise of finding that the motor has storped in the middle of a take, or that pressure on the starting button produces no response. It often occurs that movie-makers miss the chance of a good shot by neglecting this simple precaution.

SHOOTING

Selection the shooting angle and lens to be used Frame the scene by looking through the exercises at back of comess. The

ting angle (horizontal arrangle or downwards), and secondly in order to



Cornet exposure of the film has a determining influence on nictors anality.

Erample: For outdoor shots on a sunny day, with a black-and-white or





Exposure met

Photselectric exposure meters help the movie-maker to determine the diaphragm step which should be used under various lighting conditions. They are suitable for both black-and-roller and color films. Depending on the model, they measure either incident or reflected light. Exposure meters, which are highly delicate instruments, are smally carried as a expante unit

Setting the disphragm

The amount of light which, after passing through the lens, reaches the film, is limited by the aperture of the disphragm. The smallest number on the scale corresponds to the widest setting of the disphragm.

disphrages is closed by one stop (e. g. by altering the setting from f.5.6 to f.8), the amount of light reaching the film is halved. Conversely, optning the disphrages by one stop (e. g. from; f.8 to f.5.9) doubtes the amount of light admitted. Opening the disphrages by two stops quadruples it, and one one.

In determining the correct stop to use, three main factors must be taken into account:

the intensity of the lightin the sensitivity of the film the filming speed.

Distance focusion

Particular care must be taken in focusing when this distance is small, or when a scene is being shot with the lens diaphrigm wide open, as in such cases the depth of field available is very small.

Fine determine the distance to the nearest and faethest points between which the action of the sceree is likely to take place. Then set the focusing scale to an informediate value which falls well within

Then set the focusing scale to an intermediate value which falls well within a bary focus in indicated by the automatic depth-of-field wheale on the lens, so that the anticipated action takes place within this zone. If the lens is not precisived usin an automatic depth-of-field scale, the required data for focusing ones he obtained by counting a depth-of-field



Adjust the speed control according to the effect which it is desired to obtain. The normal filming rate is 16 frames per second. This corresponds to the rate at which silent projectors are normally run.

Note: Do not jurget that attering the filming speed also others the rate of exposure of the film. Thus this rate, which awounts to 1/35th second at 16 features per second, will be doubled at 8 features per second, whereas at 64 features per second it will be reduced to a quarter of its normal volue, i. e. \$1180\text{h} second to see the distribution with the product of the second to see fourth.

E. g.: filming rate 16 frames per second, set disphrages to 8.8 filming rate 8 frames per second, set disphrages to 8 filming rate 32 frames per second, set disphrages to 4





Stability of summer

The consern should always be held absolutely steady while shooting is in progress.

The slightest foling of the convers will be simplified many times over when the firm is proceed, naking the subject appear to discress about on the screen. Hold the camera pressed fast against the check or forthead, if possible baseing the elbows at the source time against some stable object (such as a wall or tree-trush). Alm the camera slowly and monthly, without juding

Length of scenes

The length of a take depends on the amount of action involved in the scene, and must be determined by the movie-maker. An average take usually covers about 16" of film at 16 frames per second, which corresponds to a duration

of some 5 to 8 seconds.

Although the length of a take can be prolonged somewhat if the action demands this secondary of granteersted length tool to detreet from the

It is always possible to shoot lengthy action scenes while remaining ustrhin reasonable limits. This can be done very easily by werely altering the shooting made and/or distance for each table.



HINTS ON FILMING TECHNIQUE

Black and white films

Elack-and-white film has the advantage of remaining comparatively unaffected by fairly wide variations in exposure. Thus on each image the details of the darker and lighter parts of the subject are rendered equally well.

The movie-maker enjoys unhampered freedom as regards filming technique, and all kinds of lighting effects contrasts between light and shade, shots against the light and soctumal scenes, are without his grasp. Purthermore, emblions of various degrees of sensitivity are available, which is not the case with color film.

The appropriate dispharges step is determined by measuring either the incident Hight — is which case the exposure meter only gives a single reading foreas valued — or the reflected Hight, which latter is usually measured by taking two readings, one for the only parts of the work parts of the seven. In this case, the dispharge usually is set to an intermediate step, the value of which decread on the kind of effect the movie-maker is sericking.

Color films

The following 8 mm color films are available:

Kodschrome type Daylight Kodschrome type A, for artificie Anscocolor for daylight Anscocolor for artificial light

A, for artificial light hydight tificial light plight

Agricolor for astropial Sensitivity: 20 ASA or 23° Schriner
Agricolor for artificial light Sensitivity: 8 ASA or 21° Scheiner
Color films are just as easy to shoot as black-and-white ones. However, since color film is more

electric exposure meter.

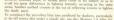
In composing the scene, the movie-maker should avoid deep shadows: the colors themselves already

lend contrast to the scene.

Experience shows that to obtain images in natural colors, the displarage stops corresponding to the highest and lowest reading obtained for the subject.

incution light) should not differ by more than 1 by stope from the mean aperture solved for shoulding.

If this requirement cannot be neet, the movie-assler should try out a different shoulding angle, or should move closer to his solvect on a few shoulding the shoulding the solution of the solvect on a solution of the solution of th



in far-off secures also under a cloudy sky, use the: Wasteen A filter for type Daylight Kodachrone film, or the Anneo UV-16 filter for type daylight Anneocolor film, or the Agfa UV-K 29-C filter for type daylight Anneocolor film.



me short indeed region in dealight one a fast less is a one with a wide

Only flood-type reflectors are suitable for shooting indoor films, in black-

The amount of exposure required by the subject varies considerably according to the way the reflectors are laid out 0: e. according to whether the subject is lit up from in front, from the side or from bohind). The lighting arrangements should be modified to not the character of the some to be



-Pan-shots

When patorismic views (such as besed lambeaper, mountain chains, or architectural views) are being shot, the camera should be moved indeed, and encounting, care being taken to held it absolutely stoody, or as to avoid any impression of printiness on the screen. As an example, a sweep which involves an alteration of 90° (i.e. a quarter-turm) in the shooting angle should take about 20 exceeds. Introduce the severe with a standard what, and flight it sail with norther targets about at the coal

It is best to set the camera up on a tripod, as this makes for amoother 'pam' and steadier pictures. Any tendency towards jurky movements can also be diminushed by shooting at a higher filming speed than sumal, say 24 or even 22 frames per second instead of 16 (needless to say, however, this method should only be applied to metionless subjects, such as landscapes).

-Pans shots should only be used speringly, as they are tiring on the eyes.



Single Isame appearant

Single frame shots are used mainly for making animated cartoons. This technique, however, can be applied both to still and to making additions

Moving subjects

Set the camera up on a tripod and, using a cuble release, take a series of single frames at a regular and fairly rapid rate (say about 2 or 3 frames per second). On projecting, the subject will appear to move at a much accelerated rate. Some highly comic effects can be obtained in this way.

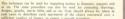
Cubjects whose movements are too slow to be perceived by the naked eve

Extremely slow motion (such as the growth of a plant) can also be registered in this way.

The carrest must be fixed on an absolutely rigid support. The absorted another between the regions interval, using a cable release. The frequency with which shots are taken till using a scalar receiver. The first involved and the effect required. The lighting should remain constant for each shot. It follows from this that the use of flood-type lighting will be found well-sight independable.

Still subjects

In other to make pictures; in which till solvents appears to be in sestion; it is sufficient to move the latter about or to aller their shape or position from one short to the ment. This should be done in such a way that the combining appearant motion follows a definite, enalty-gauged pattern, and camera should preferably be set up on a tripsel or other stready moved. The observation of the contract of the contract of the contract of the contract should preferably be set up on a tripsel or other stready moved. The











These are made by causing the subject to appear or to disappear progressively. In a 'fade-in', starting from a completely black background, the

picture appears gradually beighter and brighter smill it reaches its som value, while inversely, in a "find-out", the pictures gradually gets dat and dasker smill a point of complete black-out in reached. These effects which are much more pleasing to the eye thou a sudden change of seven shall be suffered by progressively increasing or reducing the amount of it admitted to the film.

If the scene is being shot at an aperture greater than 15.0, a "fade-out" can be predicted up shortly by mostly closing the displanges at a steady rate while theoriests simply by mostly closing the displanges at a steady rate while theoriests simply size to predict as "fade-ait", start with the displanges stepped faily face of the fade air than the face of the fade air than the fade ai

absorbed by this filter.
The displayingm cannot be closed entirely. Therefore cover the lens with
the hand before starting a "fash-in", or at the end of a "fash-out". A fade
untile least about 3 areas.

Tetally, closion iris dischranes

Use of the less disphrapm

This is an attachment which, when mounted in front of the lens, acts as a mask with a round opening, the size of which can be altered at will. The extent to which the ites is opened or closed governs the amount of the subject that can be seen. The diaghragm can be closed guadually, at will until it is exceptionly show.

ACCESSORIES

Orange

only admits light rays of a color similar to its own, and absorb the all other colors to a greater or lease extent. The discharge witting should be

In real life, coors were proving much of the continue at a given section of the lens, it is requible to alter the relative values

at depending on the filter in use.

EHects

Yellow Shades of blue are rendered in deeper tones of grey. User Used for accentuating cloudscapes, or for views of misty plains, of snow-

scapes, or of buildings.

Blues appear much darkened. Picks out vellows and reds, making them appear

tignies.

Use: Penetrates distant haze and lends contrast to views shot with the telephotolens. Very suitable for sourcepes.

Provides still senses content between blackgroup shades, which arrest very

dark, and yellow/red shades, which are rendered as tosses of light grey.

Use: Persetrates atmospheric base, suitable for snowscapes in overcast weather
and for minutain-top scenery. Produces a necturnal effect if underexposed.

Makes greens across tiether than blues and reds. Tones are 'influent' and ren-

Pailland Bolex color filters, which are provided with a screw-on or a clamp-on mount, are suitable for use with all types of Kern-Paillard lenses. See the special list of Pailland Bolex filters and wounts, and

e with all types of Kern-Paillard lenses. See the special last of Paulard Bosex Jules and mounts, and a instruction chart (yellow eard).

a consider differen whose filters are useful for abouting the color quality of the experient light in order to secure access Cute down the amount of light entering the long, without affecting the way. filter (grey) colors are rendered. The disphragm must be opened by an amount depen-With their aid, it is result to no duritable film for shots in artificial light, and vice versa. ding on the strength of the filter Used in cases when it is desired to film at a wider construct they would

Makes the sky appear darker, without affecting objects in the foresteered

Transmits malarized light in all shades of color. Absorbs altraviolet light

Bola-conser

(not supplied by

Filters for color film			Anscocolor (for daylight)	Filter No 10 for artificial light	-1.3
	Correcting filters. These filters are used with color films in order to reduce the influence of certain dominant tones:		Ansecolor (for artificial light)	Filter No 11 for daylight	198
Films			Agfacolor (for daylight)	Filter K 69 for artificial light	
	Filters	Effects	Agfacolor	Filter K 19	1300
Kodachrome Anscocolor	Wratten IA Ansco UV-16	Subdues excess of blue and improves on co- lor rendition (filming in the shadow or	(for artificial light)	for daylight	1
Agfacolor	UV-K 29 C	in havy weather distant views snowsca-	Filters should always be kept quite clean,		Alda.

26

Ellers

Kodachmene type Daylight

(for artificial light)

Conversion filters

filter for daylight



Sunshadas

These attachments serve to protect the lens from side reflections. They should always be used when shouting against-

See the special list of Pailland Rober Advent - I students

BACOM extentes sine

This ring makes it possible to use Kern-Paillard lenses intended for the Boles H 16 on the B 8. When used for shorting 8 mm films, such lenses preduce the same effect as 8 mm lenses of the same focal length. The vice-finder shows the fields corresponding to the lenses of focal lengths 12.5 mm

Turret clemp screw

The screw BX-1495 allows to lock the lens turnet in position. This precaution should be taken when using tele-lenses of comparatively high weight. The turret clamp screw is supplied apart. It is included in the Pas Gisor Sum Berthist's run

Parallex corrector prisms

When slitted in the propose to front of the viewfinder, these

corrector prisms permit perfect framing of extreme close-ups.

They are available in sets of two:

PRISM for distances of 10" and 20" (25 and 50 cm)

PRIFT for distances of 1 and 2 ft. (30 and 60 cm) Supplementary lenses for viewlinder When strongly onto the front of the strendinder (which must

be set to 12.5) the supplementary lenses adapt the field of the viewfinder to correspond with that of a 1/s" (5.5 mm) or 1/4" (6.5 mm) lens, according to the model:

Supplementary 1/s" (5,5 mm) viewfinder lens. Code: VELBE Supplementary 1/s" (6,5 mm) viewfinder lens. Code: VELBE, Supplementary 1/s" (6,5 mm) viewfinder lens. Code: VELBE, a child of the control of the control of the control of the child, which must be pushed down in order to resowe the

Cable releases

Apart from the 8" cable release supplied with the camera, two longer cable releases are available separately as acres-

Length 18" (45 cm) Code : DECAB Length 40" (100 cm) Code : DECBE





HDKEED



All the outer surfaces of the lenses should be kept absolutely clean. To clean them, use the special soft tissue-paper sold in photo stores. The lenses should not be constantly rubbed, as this might domain the anticeller

coating.

Put the dust-caps on the lenses between scenes, and when the camera is no longer needed, stow them away from damp in their Faillard Boles cases. Especial care should be taken to avoid dust or fingerprints getting onto the alaxa surfaces (prespiration is humful to glade).

Camera

The interior of the camera, in which the entire film transport mechanism is housed, must be kept absolutely clean.

A certain amount of solution and dust is remarable left in the case and on

A certain amount of gelatine and dust is generally left in the gate and on the pressure-pad after some length of film has been run through.

a) Open the pressure-pad.

No Withdraw the pressure-road by railing it towards you.

b) Withstraw the person-pad by pulling it towards you.
c) Using a close with bound amond the end of a small wooden stele, stem the road and goe nextly, particularly around the taking aportuse. If the globates depries it wastly and hard to remove, moisten the close it was to be a small property of the person of th

Lubrication

Like a high-quality watch, the Bokes B8 camera rarely needs to be lubricated. When new, it contains a reserve of grease and oil sufficient to last for 2 or 3 years. When this length of time has elapsed, it is advisable to turn

Under no circumstances should any attempt be made to dismantle the convers mechanism, as the maker's guarantee is automatically forfeited if this is done.



Hen and case of names to benefit director

Certain precuations must be taken to protect both camera and film around Atorticle boxes (transical mark) for storing film appeals are available on the time required to expose it.

The corners and all its accessories should be cleaned thoroughly and freresembly. The leather liming and carrying cases should be treated with a spe-

To prevent hot, moist air from condensing and giving rise to bacterial executes

cases between takes, but should be freely exposed to the air.

dropping any of the chemical onto the equipment.

On the other hand, when the equipment is to be left annual for some time. particularly during the mornoon season, it should be protected by putting it away in airtight tips, into which a mitable desireating agent (such as silica gel, elaction chloride, Sova beads and so on) has been placed. These chemicals should not be used too liberally, however, in order to avoid excessive drying, which might damage the leather or the film. A relative humidity of 35 to 40 % is quite acceptable. Care should be taken to avoid



PALLLADD - ROLEX MAD

For 8 mm film, Equipped with a high-quality

one the Boles MA projector operates with unshows 8 mm block-and-white or color files to execting mentemaker, and make it an ideal