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The letter-tagged illustration of the Busch 4x5 Pressman at right, together with the corresponding explanatory data below, will enable you to follow the material in this booklet and to become more quickly familiar with your own camera. Refer to this page often while reading this booklet, and for the first few days

The VUE-FOCUS—A separate booklet covering the construction and use of this fecusing desice is reclosed with your camera.

you use the camera.

- (i) Metal Arm that connects YUE-FOCUS with focusing track.
- Ser Serror that controls lineaux interchange able Ion board.

Easts that draw loss and bellows out occo-

Knobs that control forward and backward sits of lens.

(f) The Focusing Track.

60 Right hand Foruning Knob with lack knob.

(i) Adjustable Hand Strap.

(2) Sports Finder.

(i) Perp Sight. (i) Focusing Scale.



Foreword Your 4x1 Model D Busch Presuman is the finess, most advanced.

Your 4st Model D Busch Presuman is the finest, most advanced, prest-type camera on the marker, It is compact.— fully 1-inch smaller in all dimensions than any other American made 4st camera —yet meching is scrifted in rugged construction and desirable features. The Busch 4st Presuman combines improvements of existing features

> PLUS many new developments — all working together to make picture-taking easier, faster and BETTER than ever

before in this film size. Your Busch 4x5 Pressman will give you years of service with ordinary usage and sensible handling. It is guaranteed for a period of one year against defects of manufacture and material.

Congratulations on an excellent choice! As the years go by your investment will pay for itself time and again in enjoyment, interest and pride of ownership.

BUSCH PERCISON CAMERA CORPORATION

Sequence of Operation

If your camera is equipped with the Vue-Focus, open the camera by pressing down on the lever located below center window (see ill.). Other-located below center window (see ill.).

 wise, open camera by pressing button on top of camera body. Bed can be drawn down to 90 degree position.

 Turn focusing rack to rearmost position. Grasp two knobs (see ill. #1) and draw standard forward firmly against infinity stops.
 Pall aports finder and rear sight into operating position, if

you plan to use this method,

5. Compose scene in finder. Focus, using any of the methods described on pages 6, 7, 8 and 9.

Insert holder or adapter (see ill. #2).

§, Set shutter speed and lens stor.

Withdraw slide from film carrier, Cock and trip shutter.

7. Replace slide.







Sports Finder

The sports finder can be put in proper position by lifting forward and upward. The rear sight is positioned in a similar manner. The long dimension of the front frame runs in both directions and can be used with both the vertical and horizontal positions of the revolving back (see page 11), In use, the eye is placed directly behind the rear sight. From this position the front frame included the sexual sector area.



Focusing

Two focusing knobs permit right or left hand operation. Rack forward for closer objects, back for more distant views. Rack is at infinity positions when rearward movement stops. The locking knob on the right side of the bed can be tightened by turning in a clock-wise direction.

Focusing is one of the most irreportant steps in the technique of good photography. You have four methods at your fragerige with a fully sequipped Model D. (s) the focusing scale (r) the ground glass across (s) the rangefinder and (a) the focusing fields.





The scale is equipped with a "cursor" similar to that of a slide rule. That is actually a small magnifier with an etched indicating line. To operate, simply superimpose this line over the line next to the desired footage. Use the focusing knob for this purpose. View the scale from directly overhead in

for greatest accuracy. This method of focusing is generally used when the camera is not equipped win a range finder. It is necessity to estimate the distance from the camera to the object and set the scale accordingly. Do not depend on judgment when subject is within tape-measuring distance.





Own the shutter and expose the orch or bottom sideways. The from reflections Toro the ocusing knobs forward or backward to locate the plane of maximum sharpness. The lens the normal adapter. Be sure that shutter is closed before pulling slide on holder to take picture. By loosening set screw at top, the

9



The revolving back permits you to change from vertical to horizontal format without removing the camera from the triped. Used in conjunction with the sports finder, it is nos-

tible so rake hand held nicrores with the back in vertical position. To revolve back. erson set screw at bottom (see ill.) and draw it back. Now turn entire back in desired direction. It is not necessary to retain hold on screw once back is out of normal position. Back will click automatically into 90, 180, 270 and 360 degree

positions. To return back to normal position, merely draw back on screw at

bottom and turn back into position. It will click back into place automatically.

Range Finders

anchomized to each indevidual

Melder and Maplers

Only standard American pron-type for some learth of riese. This permits the

Mullers

The Raptar lens is furnished with both Rapax and Rapax Synchromatic dutters calibrated with speeds from one second to 1/40th of a second; jub cine and both. When second to 1/40th of a second; jub cine and both. When second to length of a second; jub cine and both. When second to 1/40th of 1



baths. The "X" setting is used with high-speed "stack" units, all of which are sold with speedic instructions for operation. The Extre lens is formisside with the KoRA's Speeming shatter. This shutter operates in standard fashion for everyday use. However, for flash gun use, the fash lever furge handed lash be learned are the excelling lever) must be pulled down after cocking the shutter. "I" and "M" positions are as described above. "When using the KoRA's Speeming charter with "tradle" units, for flashing lever in surposed for "New using "synders" shutters of all types, connect cord to evolve of reference. Do not prese between on better ex-planes." Accuse fields hy topings absented.





Lenses regularly furnished with the camera at present writing are: The Wellensak Raptar, 135mm, and the Eastman Kodak Ektar, 127mm, Both lenses are optically coated and have maximum openings of 1/4.7.

In each of these lenses the iris diaphragm is calibrated for the following stops; 174.23-5.6-8-11-16-22- and 32. Each of these full stops given double the exposure of the next smallest stop. (Note: 171.6 to 17.4-2 is only a half stop, giving 1.5 times: increase in exposure. Thus, 17.8 gives double the exposure of

Lenses of longer or sherter focal length may be available from time to time for use in wide angle or telephoto work and are readily adaptable to the Model D. Since the camera is equipped with a removable lens board one can make full use of another lens in a matter of seconds.

Wide angle lenses should be focused on the ground glass screen since focusing scales would be too short for practical work. When using relephoto lenses with camera handheld, employ fast shutter speeds (1/100 or higher). Slight camera movement during exposure is exaggerated by long focal lengths.

Holding the Camera

stremely steady hands. For consist harpness, use a/goth of a second or faster ip camera tightly. Press the fore-arm d. Saureze, do not jub at the shatter



Adjustable Hand Strap

or too small fee year hand. The handle length may be changed at either or both ends by loosening the laking screws with an ordinary coin. Additional holes are performed in the strap, Line up the correct hole with the perforation in the handle place and eighten screw.

Depth of Field

Photographic Ienset have a characteristic which includes more or less area in acceptable sharpness of focus, over and above that distance actually focused upon. The shorter the focal length of the lens, the greater the depth of field. By the same tooken, the smaller the lens disphragen the greater the depth of field. By the same tooken, the smaller the lens disphragen distance of the lens disphragen distance of the greater the depth of field. Depth can be gained by closing the lens disphragen down. Thus, f/18 provides a pressure area of the same provides are same provides a pressure area of the same provides are same provides a pressure area of the same provides are same provides are same provides areas areas and the same provides are same provides are same provides areas areas are same provides areas areas areas are same provides areas areas are same provides areas are same provides areas areas are same provides areas areas are same provides areas are same provides areas areas are same provides areas are same provides areas areas are same provides areas areas areas areas areas are same provides areas areas areas areas are same provides areas areas are same provides areas areas areas are same provides areas areas areas areas are same provides areas areas areas areas areas areas are same provides areas are same provides areas areas

particular portion of the state of the present can be paced on one and behind the subject to fall one by permitting the area before and behind the subject to fall one by permitting the area before page for area of sharpens covered by the 12 mm and 13 fmm lesses for a given f you pand do the present page of the page of the present page of the present page of the present page of the page o

PERSON OF BEEN TABLE FOR ST ENGINE IEMERS (197.0 mm.)

	 A . A CARR	EAS. 1 300 INC	SH CIRCLE OF CI	INFUSION.		
Distance	***	114		F 11.0	F 16.0	F 22.0
lef.	110'00.	126'-fel.	artist.	63'-tel.	43"-Inf.	217-tel.
50'	 38'-23.2"	241.42	33"-012"	28'-190'	22'-tel.	19'-bal.
15	14'-12"	195.02	12.5'-18'	131-90"	11"-22"	10'-28'
10'	9.4'-10.7"	V-10.F	9.07-111	6.7°41.8°	8"-12.8"	7.6'-14.5'
	100	17'42'	5454.8"	55-65	3.2'-4.9'	5'-3"
	3.5.47	3545	2447	28'43'	3.7'44	3.6'-4.3'
	8.0.00					

DEPTH	OF FIELD TABLE	FOR 5-5	16" FOCU:	FENSES (1	35.0 mm.	
Evaluace	147	+ 1.6	1 8.0	F 11.0	F 14.0	# 23.0
haf.	162'-tel.	130'-045	991-tel.	69'-105.	40°-401.	34'-inf.
50'	38'-32'	34'-78'	33'-364'	29'-176'	24'-tel.	20'-bel.
15.	16-16-5	12.5'-17"	13'-16'	125.197	111-211	10'-06'
10'	2.8'08'	9'-10.5'	95.131	97-11.67	0'-93"	1546
*	SEAT	18.43	57.4.5	5.6'-6.5"	5.41-6.87	5.2 .7"
	2.4'-4.1'	2.9'-4.1"	3.4'-4.3"	3.81-4.21	3.7'-4.3'	3.4'-4.5'

Flash Equipment

The synchronizer makes the photographer completely i dependent, indoors and out, and it enables him to many pictures that would otherwise be lost. This subject is too large to be covered fully here. You are referred to various data available at most camera dealers. The Busch Precision Pressman is easy to adapt to most synchr Both solenoid and cable release types, All you need do is select a reliable, versatile make and have it mount rately on the camera and adjusted with the shutter work can be done most satisfactorily at the factory. Som solenoid-type flash guns are linked to the shutter releas lever by an "S" hook. When time and bulb openings of th hutter are to be used, it may be necessary to disengage th hook from the solenoid. The Busch Precision Pressman is also adaptable to most portable high speed repeating flash units on the market



Lens Movements

REARWARD TILT and DROF BED — for use with wide angle lenser. To drop bed, draw lens standard out to normal position, then depress side arms with thumbs until last notch on arms click into place. To tilt lens, loosen set sereus on either side of lens standard. Tilt lens to desired position and tilghen sereus.

> ill marraments, he ware to return less introduced to marraid position before the ing camera.

THE RISING FRONT—for use when photographing tall buildings, straight-down views and other vertical shors where discortism may be a problem. To raise the less mount, loosen lock screws at sides and draw lens mount upward. Check for deirred effect in ground glass, Lock in position by tightening screws.



LATERAL or SLIDING MOVEMENT - for use when you want to include objects on either side of composition without disturbing set of tripod. Move lens laterally by turning left depending upon diese tion you desire. When aximum lateral move ment is reached, knob wil turn without result. Check lines under len and shutter must be





Flip-Back Infinity Stops

Infinity stops on either side of focusing track can be flipped back instantly when you want to by-pass them with the lens. Infinity stops on your canners are synchronized with your less. Additional infinity stops can be added to the track to accommodate a different focal-length lens which you





Close-up Pholography The extra-long bellows extension of the Busch 4xt Presumen

makes photographing small objects at close range a relatively simple matter. The lem can be placed more than 12 inches from the focal plane. Focusing must be confined to the ground glass when you're weeking with close-up subjects. The scale and range finder do not operate at close quarters.



Care of the Camera

The Busch Precision Presuman is constructed and engineered to withstand considerable hard urage, but it should be accorded the treatment you would give any expensive optical instrument. Keep it free of dust and, if possible, do not expose it to extreme of temperature and humidity. When cleaning the lenn, was lenn tissue or soft branker is trended for that purpose. When using the camera, avoid situations which would subject

it to violent jobts or falls. If for some reason regains are required, return in the other factory via railway expects, instend, if you cannot get the camera to the factory, be sure to the factory, to write only in the shade of a skilled requireman, it is suggested that the camera be kept in a wordly carrying case whon not in use. This will preserve both finish and mechanical alignment. Several fine 4st 2ctryring cases are validable from your debeler. Consult him.

In Conclusion

While the Busch Prenman Model D has been designed and built with the requirements of the most skillful professional in mind, the beginner will find no difficulty in learning how to get the atmost in performance from his camera if he bears in mind the various points discussed in this manual.

Reading the various books and magazines of the photographic world will lead to increasing understanding of the many possibilities contained in the design and construction of the Busch Presensan. Should unasult problems arise which inavolve the operation of the camera we will be happy to advise you. When sending such correspondence be sure to mention the following facts.

Complete serial number and model of camera. Type of lens, shutter and range finder plus any serial numbers on these articles, Also, where and when purchased. This particularly applies to correspondence on adjustments and repairs.

Kinds of holders and adjusters used as well as samples of negatives and points for reference

are also helpful.

Remember, additional accessories, lenses, flash equipment, etc., must be ordered through

remember, additional accessories, lenses, flash equipment, etc., must be ordered through local dealer. When ordering lens board, specify size and type of shutter,

Glance through this bookies whenever the thought occurs to you. Certain things may be overlooked in the first reading. Others may be forgotten. You will find The Busch Pressman, Model D, to be the finest camera you have ever owned; if you operate it correctly.

BUSCH PRECISION CAMERA CCEPORATION