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VERASCOPE



RICHARD

Verascope Homeos Glyphoscope Taxiphote

Brevete's S. G. D. G.

Manufactured by
Societe Anonyme des Etablissements
JULES RICHARD
Paris, France

There are four things about the Verascope Richard which make it a great camera—without equal

THE CHRONOMOS SHUTTER
THE STURDY MAGAZINE
PRECISE METAL CONSTRUCTION
IT'S MANY ACCESSORIES

O. H. SAMPSON

510 North Dearborn Street, Chicago

Sole agent for the United States and Colonies

NOTE—This agency will accept orders for Jules Richard Verascopes and accessories only when they cannot be supplied by a local retail dealer. Correspondence is invited, however, and advice on stereoscopic matters will be gladly given. PRICES IN THIS CATALOG SUBJECT TO CHANGE AT ANY TIME

As a matter of photographic interest we wish to say that all halftones of apparatus in this catalog are from unretouched photographs by Lee Saylor, Chicago

Stereoscopic Photography

With the Jules Richard Verascope



Jules Richard, inventor of the Verascope

Nature as seen by the eye has three dimensions—length, breadth and depth. Therefore an ordinary photographic print, however perfect from a technical point of view, must fall short of the ideal, as it reduces nature to two dimensions and eliminates the element of distance.

Stereoscopic photography was introduced to overcome this short-coming. Its aim was to provide the photographer with the means of reproducing nature faithfully in its three dimensions. It restored the element of distance, and preserved natural perspective and relief.

Yet stereoscopic photography failed to win universal popularity. On the contrary, in its early days, it earned for itself an unenviable reputation, and was regarded with disfavor amounting almost to prejudice by large numbers of photographers.

We can imagine some readers, when they discover that this article deals with stereoscopic work, being tempted to put it aside with a sense of disappointment. We ask, however, that they will read on, preserving an open mind. What we have to say on the subject will, we feel sure, prove interesting, and we hope to point the way to new sources of pleasure in photography, to discover for the reader added and more permanent interest in his hobby.

The reason for the unpopularity of stereoscopic work was well founded. The apparatus required was bulky, intricate and delicate. The technical processes were both difficult and tedious. Success demanded patience, leisure and application. The practice of stereoscopic photography was, therefore, confined to a minority of painstaking enthusiasts to whom time and trouble were but secondary considerations.

In spite of these disadvantages, stereoscopic photography did not die. It continued to live for one all-sufficient reason, the results obtained by its devotees were nearer to nature than ordinary photographic prints. Putting aside the difficulties, there was no gainsaying the fact that stereoscopic pictures were more natural, more living, than prints on a flat surface. Subjects devoid of any particular interest from a purely photographic point of view, became intensely interesting when the elements of atmosphere and distance were faithfully reproduced in the stereoscope. A new interest, capable of infinite variation, was given to photography. Most important of all, perhaps, the mental impression experienced when a given subject was seen, was recalled much more faithfully and completely when reproduced stereoscopically, than was possible by ordinary photographic reproduction.

In short, the aim of stereoscopic photography was sound. What was required was simplification, some method of procedure that would make stereoscopic work as simple as ordinary snapshot photography. The apparatus must be simple and reliable. The technical processes must be devoid of all complication. Certain success must be brought within the reach even of the beginner. All the advantages of stereoscopic photography must be retained, all the disadvantages eliminated.

With commendable enterprise the task was undertaken by Jules Richard, of the famous firm of photographic and scientific instrument manufacturers. After long and painstaking research and experiment he succeeded in producing a type of camera, perfectly simple in construction and manipulation, absolutely reliable in action, and, moreover, eminently efficient for stereoscopic photography, and at the same time for general photographic work.

This last point is important. It cannot be too strongly emphasized that the advantages of simplified stereoscopic photography have been gained without any sacrifice in efficiency from the point of view of ordinary photographic work.

The results of all his experiments and research are embodied in the wonderful little camera called

The Verascope

We give a detailed technical description of The Verascope in succeeding pages. It is only necessary to state here that the Verascope is a tiny little camera sufficiently light and portable to be carried just as conveniently as a pair of ordinary binoculars. It is so simple that it can be used by the beginner with complete success. It is a model of efficiency and convenience for both ordinary and stereoscopic work.

To continue our survey of stereoscopic photography generally. One of the points where most stereoscopic cameras of the old type failed was that they were not sufficiently well built. It is essential that a camera for this work shall be so well constructed as to ensure absolute freedom from warping. Unfortunately, many of the cameras that were sold for stereoscopic work by no means conformed to this condition.

It is sufficient to say that the **Verascope** is constructed of metal throughout in such a manner that warping even to the smallest degree is an absolute impossibility.

Now to proceed to the technical processes involved in the production of stereoscopic pictures. In the old days, immense difficulty was introduced by the necessity for accurate trimming, transposing and mounting of the prints to be viewed in the stereoscope. It was here that the photographer encountered the serious disadvantages that usually drove him somewhat reluctantly to the conclusion that "the game was not worth the candle." It is here also that Jules Richard has scored what may be considered his greatest triumph. To overcome the difficulties he decided, first of all, to use transparencies instead of mounted prints. This removed the bugbear of troublesome mounting. It is as well at this point to utter a word of warning. The mention of transparencies, for some reason, conveys, we have discovered, the idea of complication to the minds of some photographers. transparency is just as easy, and just as difficult, as making an ordinary print. The idea of increased difficulty is entirely unfounded. The next step in the process of simplification was to remove the difficulty of transposing. This was accomplished by providing a simple transposing printing frame. In this frame the registration is carried out automatically. No measurements or calculations of any kind are necessary.

Thus, by a logical and determined effort, has stereoscopic photography with all its obvious advantages, been brought within the reach of the photographer who demands simplicity and reasonable rapidity of production. The difficulties of both apparatus and technique have been attacked and overcome. Every disadvantage has been removed, and every advantage retained.

There is no longer any reason for the prejudice against stereoscopic work. In the **Verascope** the photographer has at his disposal a camera which will enable him to continue his successes in the production of ordinary prints and enlargements, and will give him the additional advantage of the ability to produce perfect stereoscopic pictures that come nearest to Nature. Stereoscopic pictures made with the **Verascope** literally live. They give a vivid impression of atmosphere and distance. Sunshine not only looks like sunshine; it actually gives the physical perception of light and warmth. **Verascope** pictures bring you face to face with your subject as you see it. There is no more satisfying record of your experiences, your travels, your holidays, your home or your friends, than a collection **of Verascope** Transparencies.

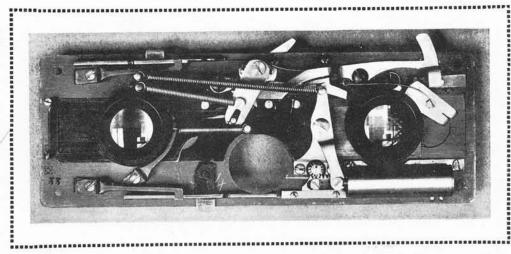
Technical Description

The **Verascope** is a sturdy little camera designed to give the utmost efficiency both for ordinary photography and for stereoscopic work.

It produces single pictures 45 mm. square, and stereoscopic transparencies consisting of two pictures each of this size.

Although of such small size, the **Verascope** is an instrument of the utmost precision. Being built throughout of metal, absolute freedom from warping, even under the most trying conditions, is assured. The most skilled workmanship and careful supervision is employed at every stage in the manufacture of the **Verascope**, with the result that in spite of its accuracy and delicacy of adjustment, the camera is a model of reliability. Being of the fixed focus type, the **Verascope** is ready for immediate use, all objects from 10 ft. to infinity being in focus. Supplementary lenses, which can be fitted immediately, and which bring objects at 9 ft., 6 ft., 3 ft., or even a few inches from the camera into focus, can also be supplied.

Inside view of Chronomos Shutter



Every movement necessary for general photographic work is fitted to the **Verascope**, but unnecessary adjustments, which would make the camera unduly complicated, have been rigorously avoided. When desired, however, special adjustments can be added to the **Verascope** to adapt it for special branches of photography, such as Color Work, Telephotography, etc. These can be fitted at any time as needed. One great advantage of the **Verascope** is that it will grow with you step by step as your requirements become more exacting.

The **Verascope** is made in two sizes and five different models, which vary in respect to the adjustments fitted.

A wide choice of lenses, the most modern types of anastigmats, are fitted to the **Verascope**, and it should be added that the degree of accuracy of workmanship which is attained, ensures such a wonderful degree of definition in the negative, that enlargements to any reasonable size can be made from the negatives without any appreciable loss in quality. Those photographers interested in speed work will be interested in the Chronomos Shutter, giving actual tested speeds of ½ to 1-150 sec., and the new High Speed Chronomos Shutter which, in addition,

gives a guaranteed speed of 1/400 sec. The latter shutter has been used with signal success by many photographers for speed work of the most difficult character, and gives practically everything that a focal plane shutter will give.

The **Verascope** is usually supplied with a reliable changing box, holding 12 plates or flat films. The plates are changed instantaneously by simply pulling out a drawer. Single metal plate holders or rollholder for daylight loading roll film can also be supplied.

Important

The question is sometimes asked "Why it is that Messrs. Richard do not fit a focusing mechanism to their 45x107 mm. Verascope?" and in order to answer this definitely, we quote the makers' actual explanation.

"A focusing adjustment both from a practical and theoretical point of view is quite unnecessary on a camera of this description, owing to its small size, and to the great depth of focus obtainable with the short focus lenses fitted, and secondly, to the fact that no mechanical device, however well constructed, is sufficiently precise to permit of the two accurately paired objectives travelling backwards and forwards in dead true alignment with any degree of certainty.

"It is well known that the shorter the focus lens the greater the precision necessary in fitting them to the camera, and when it is stated that the lenses used on the 45x107 mm. Verascope are adjusted to within 1/1000 part of an inch, the importance of this point will be appreciated.

"The short focus lenses used on the 45x107 mm. Verascope allow of very near subjects to be taken without resort to focusing. With the 7x13 cm. model Verascope it is different, as the lenses are considerably longer in focus. Where, however, it is desired to photograph subjects with the 45x107 mm. Verascopes, nearer than 9 ft., we recommend the use of the supplementary lenses which replace a focusing adjustment where such is required.

"During the period of manufacture of the Verascope, which goes back 25 years—this question has been studied from all points of view, and if we have refused to supply a Verascope with focusing adjustment in the 45x107 mm. size, it is because we realize that the disadvantages are greater than the advantages if there are any."

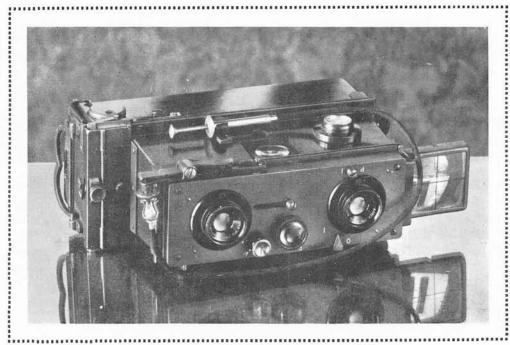
Messrs. Richard have arrived at this conclusion not only after many years of experience, but after having actually carried out experiments and constructed several experimental models.

That the **Verascope** has been for the last 25 years the most popular camera of its kind is in a great measure due to the simplicity of the instrument, and to the fact that it is a fixed focus camera—a practical instrument, and one that is always ready for use—even in unskilled and inexperienced hands.

7

Model 4. 45x107 mm.

Model 4 Verascope showing Saphir f.8 lenses



This camera is offered to supply the need for a simple, moderately priced apparatus, and is constructed with the same care and accuracy as the more costly models. It is the same in every way as the Model 6 and Model 7 **Verascopes**, with the exception of the lenses and shutter.

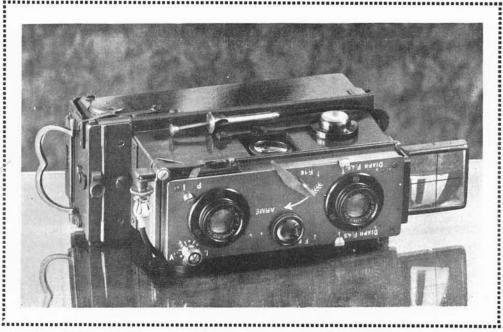
The lenses are the well known Saphir anastigmats with diaphragm openings of f/8 and f/16, accurately matched and capable of the finest work. The shutter is of the same steel leaf construction as the Chronomos with adjustable speeds from about 1/25 to 1/100 of a second, as well as time exposure.

Cther features of this model are the No. 104b plate magazine holding twelve plates, Richard Antinous Release, Richard Prism Finder, direct view finder, two spirit levels, tripod socket and rising front.

DESCRIPTION				PRICE
Model 4s—Saphir f . 8 Anastigmat lenses, sole leather case	 •		•	\$145.00

Note—This camera may be equipped with roll-holder instead of plate magazine at an extra charge of \$10.00.

Model 6. 45x107 mm.



Model 6 Verascope showing Saphir f.4.5 lenses

This model is an improvement over the Model 4 and is fitted with the new Chronomos Shutter, with automatic speeds from about 1/5 to 1/150 of a second, as well as time exposure.

There are six settings of instantaneous speeds on each camera and a card is furnished with each outfit showing the exact tested speed at each setting. These speeds are also marked on the shutter plate opposite each setting of the indicator, similar to the following—1/6, 1/12, 1/23, 1/55, 1/90, 1/145.

This is the only shutter manufactured where the exact speeds of the shutter are measured and furnished, after the shutter is on the camera. It is of the greatest importance where an exposure meter is used, to know that the shutter will actually produce the speed desired.

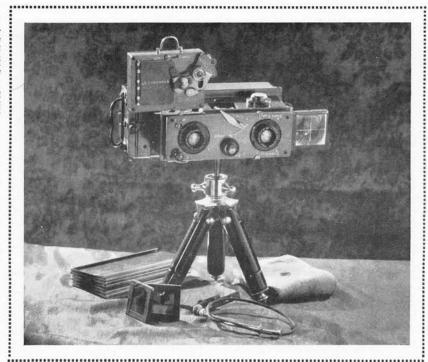
The price includes the camera with one model 104b magazine, a Richard antinous release, two lens caps, a transposing printing frame No. 505 and a sole leather carrying case with shoulder strap.

		DI	ESC	RII	PTI	ON							PRICE
Model 6a—Tessar f. 6.3 lenses		2	2			v						•	\$215.00
Model os—Sapnir J. 6.3 lenses	4.0	900			47		 -	2.7	20	40	20	20	165.00
Model 6b—lessar f. 4.5 lenses			2	2	20	25	7	21					225.00
Model 6s—Saphir f. 4.5 lenses		81		*2		*							175.00

Note—Any of the above models may be had equipped with roll-holder instead of plate magazine at an extra charge of \$10.00.

Model 7. 45x107 mm.

Model 7 Verascope showing Cunctator in place and Autochrome outfit. The No. 811 Tripod shown is not included

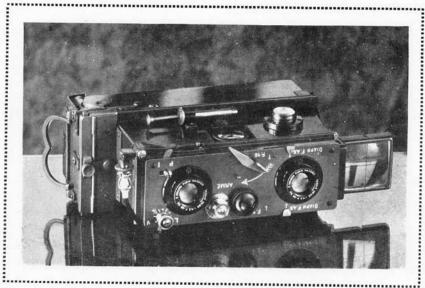


Here is the Stereo Supreme, a precision instrument of which the owner may be proud. Completely equipped for all kinds of work, with the simplicity of operation and beautiful construction which may only be had in the Jules Richard apparatus.

This camera is exactly the same as Model 6 but has the following equipment added—A Richard Cunctator which fits on the camera in the same place as the antinous release, automatically releasing the shutter for all instantaneous exposures and time exposures of one to thirty seconds. Also a complete outfit for Autochrome color plate work, consisting of a pair of filters with holders inside the box of the camera and eight septums for holding color plates in the magazine.

	D	ESCI	RIP	rI(ON								PRICE
Model 7a—Tessar f. 4.5 lenses Model 7s—Saphir f. 4.5 lenses	*		*			*		*:					\$250.00 200.00
Either of the above models may at an extra charge of \$10.00.									of	the	pla	te	

Model 8. 45x107 mm.



Model 8 Verascope showing Tessar J.4.5 lenses

After the Chronomos shutter was introduced in the **Verascope**, many requests were made for a shutter of higher speed, so that the most extreme motion could be stopped. To satisfy this demand Jules Richard added a simple mechanism to the regular shutter which produces an *actual* speed of 1/400 of a second in addition to the other regular speeds.

As a result, the motion stopped by this shutter is fully equal to that of a focal plane shutter at 1/1000 of a second, using a lens of seven-inch focal length.

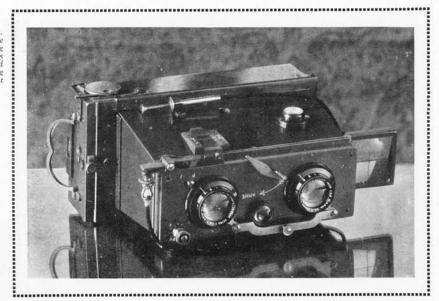
In every other way this model is the same as Model 6 and is furnished with the same equipment. No Cunctator or Autochrome accessories are included, but if desired, they may be purchased separately.

				CRII								PRICE
Model 8a—Tessar f. 4.5 lenses		*				100		2	120			\$250.00
Model 8s—Saphir f. 4.5 lenses	(4)	40	- 1	3745		141	123	-				200.00

Either of the above models may be equipped with roll-holder instead of the plate magazine at an extra charge of \$10.00.

6x13 cm. 7x13 cm.

7x13 cm. Verascope showing Tessar f.4.5 lenses and focusing front



The 7x13 cm. Verascope has been designed for those who desire a larger negative than the 45x107 mm. Verascopes produce. Two advantages are gained by this; first, a contact print $2\frac{1}{2}$ " x $2\frac{1}{2}$ " can be made from half of the negative, and second, when Autochrome pictures are taken the grain and defects in the plate are less noticeable, as the area of the plate is almost four times as great as the 45x107 mm.

This camera is also fitted with a very rigid focusing front as the lenses are too long in focal length (85 mm.) to be used in fixed focus. The diaphragms are of the Iris type and are operated by a bar which keeps both openings at the same diameter. In all other respects this model is the same as the Model 6, excepting as to size and weight.

The magazine is made to take 7x13 cm. septums and is furnished with twelve of this size. If it is desired to use 6x13 cm. plates or Autochromes, septums may be had which fit in the same magazine.

It may be said regarding this camera that Jules Richard strongly favors the 7x13 cm. plate over the 6x13 cm. His reason is that the 7x13 cm. finished positive consists of two *square* pictures while the 6x13 cm. prints are somewhat wider than they are high. The square stereoscopic print is by far the more pleasing one to view.

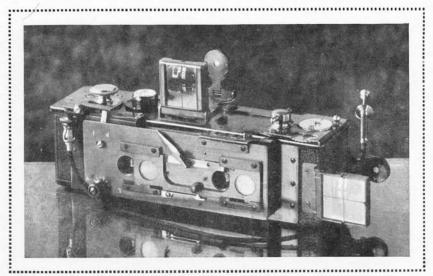
Verascope 6x13 cm. 7x13 cm.

Weight	3 ounces
Size	1/2" x 3"
*** * * * * * * * * * * * * * * * * * *	pounds
	ounces
Weight of foil holder	ounces
NUMBER DESCRIPTION	PRICE
4451 —Verascope 7x13 cm. Tessar f. 4.5 lenses	
	\$285.00
4452 —With Roll-Holder instead of magazine	300.00
Accessories	
4504 —Magazine, fitted with Automatic Counter, Block System, Note Holder	
and Indicator showing whether magazine is empty, loaded or exposed	40.00
4505 —Roll-Holder, using Eastman No. 116 film producing five and ten stereo-	
scopic exposures on six and twelve exposure film	55.00
4514 —Black sole leather case holding camera and one magazine	10.00
4515 —Tan sole leather case holding camera and one magazine	10.00
4517 —Black sole leather case holding camera and two magazines	16.00
4518 —Tan sole leather case holding camera and two magazines	16.00
4519 —Tan Pig Skin case holding camera and two magazines	25.00
4519a—Black sole leather case holding camera roll-holder and one magazine.	18.00
4521 —Magazine septum 7x13 cm., non rusting white metal	.30
4522b—Magazine septum 7x13 cm., Autochrome non rusting white metal	.30
4525 —Magazine septum 6x13 cm., non rusting white metal	.60
4527 —Magazine septum 6x13 cm., Autochrome non rusting white metal .	.80
4528 —Metal fitting to hold 6x13 cm. single plate holder on camera	4.00
4532 —Autochrome filters, compensating, per pair	10.00
4536 —Single plate holder for 6x13 cm. plates	1.00
4538 —Single plate holder for 6x13 cm. Autochrome plates	1.00
4540 —Leather lens caps, per pair	.40
4549 —5X Orthochromatic filters, per pair	6.00
4560 —Transposing printing frame for 6x13 cm. and 7x13 cm. positives	6.00
4565 —Light tight box to hold extra set of loaded septums	.50
4572 —Filing box for 50 plates, waxed teakwood.	3.00
4575 —Envelopes for holding plates, each	.01
4580 —Porcelain developing dish with three compartments.	1.50
4581 —Glass fixing box for 12 plates	
4585 —Zinc wash box with faucet, for 12 plates	2.00
4586 —Zinc wash box with faucet, for 24 plates	2.75
4620 —Metal frame for mounting cut Autochromes 6x13 cm. or 7x13 cm.	4.00
4530 —Frame and guides, with diamond for cutting Autochromes	.12
4708 — Stereoscope of mahogany with double achromatic lenses for both	6.00
ox13 cm. and 7x13 cm. positives or Autochromes	25.00
positives of Autoentonies	27.00

The Homeos

For Stereoscopic Pictures on Cinematograph Film

The Homeos with both finders erected and shutter open



How often have we heard it said, "Oh that camera is too heavy and the plates take up too much room." When on a long hunting trip or while traveling, these two points become very important and again Jules Richard has come to the front with the answer. A radical departure from the **Verascope**, and yet incorporating its most important points, the Chronomos Shutter and solid metal construction.

The new **Homeos** is scientifically and mechanically perfect. The two lenses of Tessar formula are only 38ths of an inch in diameter including the mount, yet they are perfect anastigmats giving most critical definition over the entire field at the full aperature of f. 4.5. They are perfectly paired and their stops can be set simultaneously to the aperatures of f. 4.5, f. 6.3, f. 8, f. 10 and f. 20. No focusing is necessary, but if it be required to photograph an object as close as 18 inches, a pair of suitable auxiliary lenses fitted permanently on the front of the camera can be brought into position immediately.

The dimensions of the camera are $6\frac{1}{2}'' \times 2\frac{1}{4}'' \times 2\frac{1}{4}''$ and the weight is only 26 ounces. Regular motion picture film is used on brass spools which may be loaded in daylight. Each spool is sufficient for 27 stereo or 54 single exposures. Enough film for 1,600 stereo exposures weighs only three pounds and takes up a space of $3'' \times 6'' \times 4\frac{1}{2}''!$

Thus the weight and size question has been solved with no important sacrifice in the quality of the resulting pictures and the cost per picture is exceedingly low. We will not presume to claim that the results of this camera are quite as fine as the pictures taken with the 45x107 mm. or 7x13 cm. **Verascopes,** nor will the negatives stand as great an enlargement as do the larger ones. However, perfect enlargements up to 5" x 7" can be made and the positives on motion picture film are marvels of depth and detail.

The film is easily inserted and removed from the camera in any light. Each section of film is brought into position behind the lenses by a winding key which automatically registers the number of pictures taken. During the exposure the film is pressed into contact with a piece of optically flat glass to insure perfect register.

The exposed film, which is about one yard in length, can readily be developed by means of the tray or daylight developing tank and produces a continuous band of 52 perfect little negatives. The printing machine is also a marvel of Richard workmanship. Not only can the exposure be readily adapted to any possible variation in the density of the negatives, but each pair of pictures is automatically transposed in the printing operation.

It must not be supposed for a moment that because the pictures are so small they are in any way deficient when viewed in the stereoscope. To the contrary there is a most surprising realism, with wonderful suggestion of modeling and solidity, space and distance, light and shade.

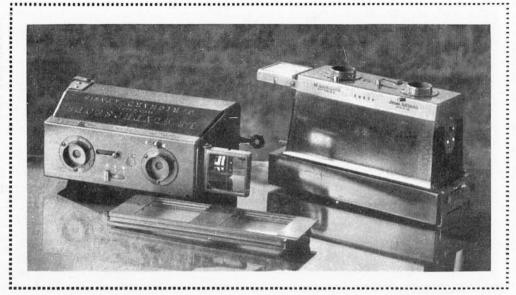
This brief description of the **Homeos** camera is sufficient to suggest that it is quite unique. It is adapted for every kind of hand camera work; for use on a tripod, for the production of perfect and portable stereoscopic pictures, lantern slides and enlargements. It is not, and could not be, a low priced instrument but it is remarkably reasonable considering the workmanship, material, lenses and the unique character of the results it produces. Light weight and convenience are its chief characteristics.

NUMBER DESCRIPTION P	PRICE											
5500 — Homeos, Tessar f. 4.5 lenses, Antinous Release and morocco carrying												
case holding the camera and extra film rolls	225.00											
5510 —Glass plate for film register opening	1.00											
5521 — Homeos printing machine	50.00											
5530 — Homeos metal folding stereoscope	5.00											
5531 —Homeos Mahogany stereoscope	12.00											
5532 — Homeos Mahogany stereoscope with variable ocular distance.	18.00											
5535 —Enlarging cone for post card size enlargements (see page 30)	40.00											
5543 —Cloth covered box holding 20 positive rolls	2.50											
5544 —Cloth covered box holding 12 positive rolls	2.00											
5545 —Homeos roll film, 25 to 27 exposures	.75											
Developing Homeos film, per roll	.30											
Printing Homeos film, per roll, black tone	1.50											
Printing Homeos film, per roll, sepia tone.	2.00											

The Glyphoscope

45x107 mm.

Glyphoscope
Plate and
Film Pack
Model
showing
positive
holder for
Film Pack
Model



The **Glyphoscope** is a simplified form of the **Verascope** designed for those who wish to secure the advantages of the improved method of stereoscopic photography at the lowest possible cost. Although comparatively inexpensive it is an instrument of absolute reliability. Constructed with the usual Richard care, of an extremely hard composition and oxidized brass, it is very solid and perfectly rigid.

The lenses are of the finest Double Achromatic type, giving fine definition and covering power. Three diaphragm openings are fitted and the camera is fixed focus.

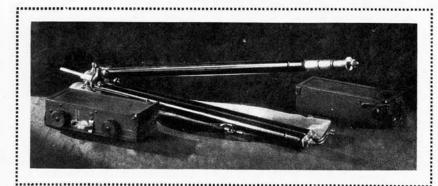
The shutter is both instantaneous and time. A brilliant direct view finder with sight is attached to the left hand end of the box.

The plate model is adopted for either ordinary or Autochrome work.

NUMBER	DESCRIPTION				PRICE
	h six single plate holders and m				
ground glass for vi	iewing positives through the lenses	of th	e car	nera	\$14.00
5001a—Richard Glyphoso	cope fitted for film packs only .				20.00
5011 —Black sole leather	case for camera and six plate holde	rs			4.50
5012 —Tan sole leather ca	ase for camera and six plate holders	3 .			4.50
5020 —Black sole leather	case for camera and twelve plate h	older	S.		5.00
	eather case for Film Pack Glypho				4.50
5110 —Antinous release.					2.50

Note—All finishing accessories, single plate holders and close lenses or filters for the Verascope 45x107 mm. may be used for the Glyphoscope.

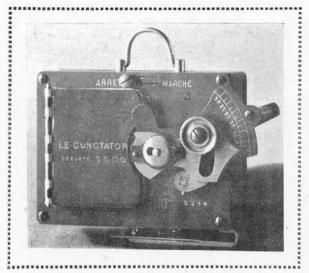
Verascope Accessories



Roll Holder No. 105 Tripod No. 801 and Plate Magazine No. 104b

NUMBER DESCRIPTION									PRICE
104b—Plate magazine, fitted with Automatic Cou Holder and Indicator showing whether mag	azir	ne i	s lo	ade	d,	emp	oty		
exposed			11011				*	3.11	\$35.00
105 —Roll Holder, using Eastman Verascope film	pro	duc	ing	six	ste	rec	SCO	oic	
exposures				+3		9	10	5	45.00
105a—Eastman Verascope film, six stereo exposure	s pe	er re	llc	12	4				.35
106 —Extra glass plate for Rell Helder				*	22		*	2	1.00
116 —Magazine septum, non rusting white metal			+ 1	7		45	+	2.7	.20
118 —Black box for holding set of loaded septums				÷	- 12		-	4	.40
120 —Long slide for Magazine or Roll Holder .						*:		100	.75
121 —Short slide for Magazine or Roll Holder .	*		-	140			*	-	.75
122 —Plug for septum opening in Magazine	1	15			54	-	-	1	.75
129 —Metal lens shades, per pair			*/:			+3		3	3.00
132 —Leather lens caps, per pair			-	1					.40
133 -Leather lens caps, fastened on aluminum bar				107					1.50
135 -Metal fitting to hold single plate holder on ca	ame	era							2.50
142 -Single plate holder of non rusting white meta					100	50		- 0.0	.75
160 —Steel die for re-forming bent septums									2.00
221 Dishard Antinous release complete with the			1-1	1					2.00
321 —Richard Antinous release complete with pla on the camera	ite	ICI	nei	ain	g ti	ne r	elea	ise	5.00
321a—Ditto, without camera plate	Ť.			5	*	200	***		4.00
321b—Ditto, cable and end screw only				,			*		2.00
321c—Ditto, release plate only	ħ	100	11.	*		*			47.000
									2.00
330 —Indicator for taking complete panoramic circ the tripod through the top of the tripod sock	cle o	ot e	he o	sur	es, iera	htti	ng	on .	2.00
801 -Verascope Tripod of brass in 5 sections, wei	ght	28	07	in i	case	>			8.00
811 —Pocket tripod with ball and socket top, in two	Sec	tio	ns I	neio	ht	ofc	ame	ra	5.00
with tripod extended, 8 in. Weight 12 cz.	300	101	10, 1	reig	iit (01 0	ailie	ıd	5.00
820 —Ball and socket top to use Verascope on any									2.50
911 —Richard flash lamp of brass, with Antinous r									6.00

Cunctator set for one second exposure



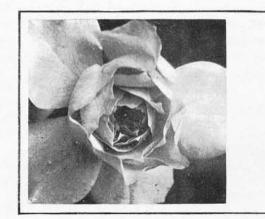
Many times, has the amateur photographer desired to include a figure in the picture to give animation to the scene and through lack of a companion, has been sorry that he has not been able to place himself in position to be included in the view.

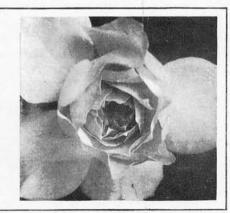
This small apparatus, whose name signifies to delay, or to defer, is mounted on the **Verascope** in place of the Antinous Release and operates the shutter thirty seconds

after it has been set. This gives the operator sufficient time to place himself in the desired position in the photograph. About three seconds before the shutter is released a small red plate flies open, denoting that the exposure will shortly take place. After the exposure is complete the red warning is replaced by a white one, showing the operator that the exposure has been completed.

NUMBER	D	ESC	RII	PTI	ON									PRICE
181 —Richard Cunctator for inseconds, in leather pouch	stant	ane	ous	and	l tir	me	exp	osu:	res	from	n 1	to	30	\$15.00
182 —Ditto, 2 to 60 seconds.														15.00

Note—The Cunctator may be used with either the 45x107 mm. or 7x13 cm. Verascopes, but not with the Glyphoscope. The Cunctator is included in equipment of the Model 7 Verascope.





White rose, photographed with the Richard Banc



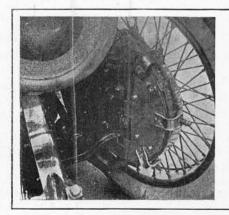
Left to right Nos. 215, 201 and 200 Auxiliary Lenses

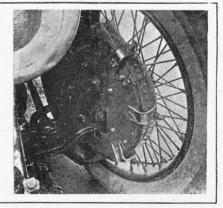
Auxiliary Lenses and Orthochromatic Filters

Photographs of very near objects can be made with the **Verascope** by means of special lenses which are placed over the regular lenses. With these lenses, pictures at one half, one, two and three meters (about 19", one yard, two yards and three yards) may be successfully obtained. They are supplied in two forms; in pairs or three pairs in one sliding mount.

NUMBER DESCRIPTION 200 —J. R. Supplementary lenses, a special strength for including all subjects	PRICE
seven feet to seventy-five feet from the camera	\$ 6.00
201 —Auxiliary lenses, for subjects one-half meter from the camera	5.00
201a—Ditto, for subjects one meter from the camera	5.00
201b—Ditto, for subjects two meters from the camera	5.00
201c—Ditto, for subjects three meters from the camera	5.00
215 —One, two and three meter lenses in one sliding mount	10.00
225 —Orthochromatic filters increasing the exposure five times	5.00
235 —Ditto, three pairs in one sliding mount increasing the exposure two	
five and fifteen times	12.00

Note—All lenses are in cases and purses as illustrated. Any of the above lenses or filters will fit either the 45x107 mm. Verascope or the Glyphoscope.



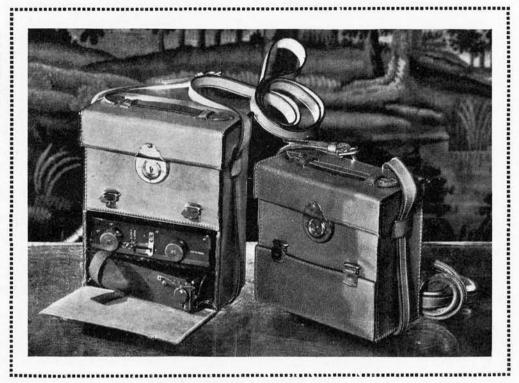


Hydraulic four wheel brake, photographed with the No. 215 Auxiliary Lenses

Carrying Cases

45x107 mm.

Tan sole leather, three compartment case No. 272 and pig skin two compartment case No. 263



When one or two extra magazines are to be carried it is rather inconvenient to carry them separate from the outfit. These cases have been designed for this purpose as well as to protect them from dust and accidents. The extra compartment is also convenient for carrying extra equipment or plates. The leather used is of the best quality of heavy cow hide and the workmanship is of the finest. The pig skin cases are extremely durable and are lined with brown suede leather.

NUMBER	DESCRIPTION				PRICE
251 —Black sole-leathe	r case for camera and one magazine.		*		\$ 7.50
	case for camera and one magazine				7.50
253 —Tan pig skin cas	e for camera and one magazine	91	7.	-	14.00
	r case for camera and one extra magazine				14.00
	case for camera and one extra magainze				14.00
263 —Tan pig skin cas	e for camera and one extra magazine .	4	-	2	18.00
	r case for camera and two extra magazine				16.00
	case for camera and two extra magazines				16.00
	e for camera and two extra magazines .				23.00

Natural Color Photography

With the Verascope

3

The **Verascope** and **Glyphoscope** are admirably adapted for color photography using the well known Lumiere Autochrome plates. The resulting pictures are uncanny in their depiction of nature as we see it with our eyes, combining the stereoscopic effect with the natural colors.

Special Autochrome screens are supplied, either in square form with metal holders which are attached inside the box behind the lenses, or in mounts which slip over the outside lens mount. Either style of screen displaces the image to the correct focal plane necessary to this make of plate. A pair of these screens and a set of eight special septums for the magazine is all that is needed for the taking of color pictures, the rest of the operation being exactly as for ordinary work excepting that the exposure for Autochromes is more prolonged.

For those who desire to use single plate holders, a special holder for Autochrome plates is furnished. The metal frame No. 135 must be used to hold the single plate holder on the camera.

The letter "G" indicates that the item may be used either for the **Verascope** or **Glyphoscope**.

NUMBER	DESCRIPTION					PRICE
401 —Metal filter	holders and filters for the inside of the camera					\$6.00
402 —Compensati	ng filters in metal mounts for the outside of	the	e ca	amo	era	
	cannot be used with this style)					8.00
•	for inside mounts					2.00
404 —Inside mour	its only					4.00
405 —Inside filters	s only, for use with Perchlora flash powder .					2.00
412 —Magazine se	ptum for Autochrome plates, each					.20
412a—Ditto, set of	eight (Verascope magazine holds eight)					1.60
135 —Metal frame	for holding single plate-holder on magazine.					2.50
422 —Single Auto	chrome plate-holder of non-rusting white metal				G	.75
425 —Frame with	gauges and diamond, for cutting Autochromes				G	5.00
430 —Metal frame	for holding cut and transposed Autochromes			•	G	.10

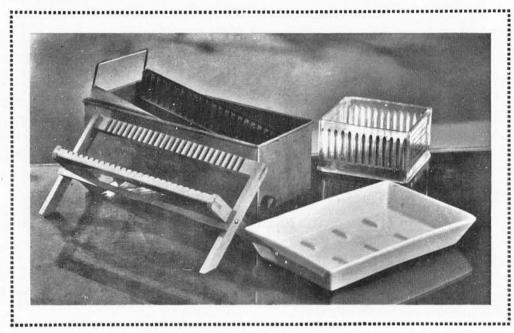
Note—No. 401 and No. 412a are included in the equipment of the Model 7 Verascope.

Accessories for Finishing

45x107 mm.

In all classes of work and artistry it is very necessary to have the proper tools to achieve the best results. To this end Jules Richard has provided the most complete line of stereoscopic accessories obtainable, making the finishing of stereoscopic pictures a pleasure. These accessories are constructed with the same care as the cameras and the amateur is assured that he may produce the finest results with ease when using them.

Drying Rack No. 530, Wash Box No. 543, Tray No. 515 and Fixing Box No. 518



NUMBER	DESCRIPTION						PRICE
505 —Transposing printing	frame of Ambroine composition	١.					\$ 3.50
508 —Frame for printing o	ne side of stereo on post card						2.50
509 —Transposing printing	frame for roll film, of wood con	sum	ption	n .			5.00
	tray, four compartment						1.25
	ling 24 plates back to back .						1.50
530 —Wood drying rack for	or 24 plates 45x107 mm. or 7x13	cm.					.50
541 —Zinc wash box with I	brass faucet, for 12 plates						2.75
543 —Zinc wash box with l	brass faucet, for 24 plates						3.50
	ling plates in developer						.20
	ling 50 negatives, with index car						2.50
	ves or positives, each						.01
701 —Lantern safe light fo	or developing, with ruby, orange	and	whi	ite	ligh	ts.	
electric or candle illu	imination						9.00
731 —Automatic Printer (s	see page 23 for description) .		0.00			-	60.00
	see page 23 for description) .						65.00
	x13 cm. (see page 23 for descript						55.00
	x13 cm. (see page 23 for descript				•		55.00
730 —Automatic Printer of	x1) cm. (see page 2) for descript	1011)	3.5				77.00

Automatic Printer

45x107 mm. 6x13 cm. 7x13 cm.

The Automatic Printer is a printer of stereoscopic transparencies, so contrived that the transposition of the positive plates is done automatically, in the most rapid manner.

The cut illustrates the general design of the printer, which is constructed of inlaid mahogany and metal working parts in the usual incomparable Richard manner. The stereoscopic negative is laid on the inclined bed of the machine, over two exposure apertures and is held in place by a strong clip. The positive



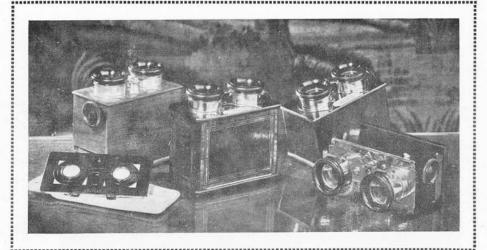
Automatic Printer No. 731a with drawer

plate is laid on a carrier to the left hand of the printing bed where it falls into place for the first exposure. Then simply by drawing out to the full distance the knob seen on the right hand of the printer, the plate is carried over to the other side of the bed, and on thrusting the knob back again is placed in position for the second exposure.

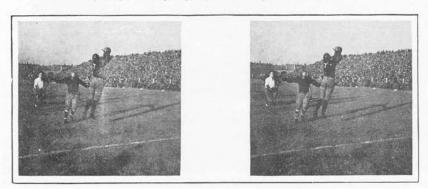
The exposure is made by turning the rear knob on the right hand end, thereby lowering a ruby screen placed in front of the light source, which is a 25 watt electric globe. The act of lowering this screen starts the second hand of the clock for timing the exposure, the orange dial of which is illuminated by the light source. Closing the ruby screen after the exposure releases the clock hand which returns to zero ready for the second exposure. The orange clock dial may be used to illuminate the dish while the prints are being developed.

The 45x107 mm. printer is made in two styles, No. 731 without drawer, and No. 731a with a four compartment drawer for holding the exposed and unexposed positive plates while working.

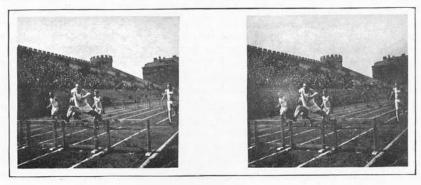
The 7x13 cm. and 6x13 cm. printers are slightly different from the 45x107 mm. in the mechanism and are constructed of dull finished walnut instead of inlaid mahogany. Both of the larger sizes have the positive drawer below.



Left to right Nos. 1023, 1003, 1007, 1010 and 1013 Richard Stereoscopes



A completed forward pass, Pyott to Lampe. Chicago-Indiana game 1923. Verascope No. 7, 1/150 second



Photographed with the Model 8 Verascope 1/400 second

Richard Stereoscopes

45x107 mm.

Just as important as a good camera, is a good stereoscope. There are several makes of stereoscopes on the market, some very good, and some that are sold mostly for appearance and large profits, without having the optical and scientific construction that is so important to comfortable and correct viewing.

Every genuine Richard stereoscope is optically and scientifically perfect, from the lowest to the highest priced model. Special attention has been paid to the Achromatic lenses, which are of the finest quality, to the correct centering between the lenses and to the smooth working, rigid construction. All models may be used for either ordinary positives or Autochrome natural color plates, although the short focus models tend to magnify the grain of the Autochrome color screen rather more than is desirable for this size of picture.

NUMBER	DESCRIPTION							PRICE
1003—Medium focus	, waxed walnut with dull nickel fitti	ngs						\$ 7.50
1005—Medium focus	, mahogany with polished nickel fitt	ings						13.00
of rose-wood v	, De Luxe model of selected mahogar with brass and ebony borders	٠.						22.00
	1007 with nickel plated front and fit							
tance between	the lenses from 58 mm. to 75 mm. o	cente	ers			•,	•	18.00
1010—Short focus, g	iving life size image. Double Achron	mati	c le	nse	s, m	aho	g-	
any box with	polished nickel fittings							15.00
1012-Short focus D	e Luxe model, same as No. 1007 .							25.00
1013—Short focus ac	ljustable oculars, same as No. 1008.							22.00
1020—Mahogany fol	ding model, ordinary focus, in pouch	ı .						18.00
1023—Metal folding	model, in pouch							4.00

Reversing Stereoscope

This model is constructed with two optically perfect reversing prisms in front of the lenses which allow the viewing of an image which has not been transposed in printing. It is especially recommended for viewing Autochrome plates which have not been cut and transposed, or for the viewing of negative plates, to form some idea as to how they will look when printed.

NUMBER	DESCRIPTION	,		PRICE
1040—Richard Prism Reversing	Sterecscope, mahogany and nickel			\$55.00

The Taxiphote

45x107 mm.

Taxiphote No. 2003



The **Taxiphote** is an instrument which has been designed for viewing, classifying and storing stereoscopic transparencies made with the **Verascope**, **Glyphoscope** and all other makes of stereoscopic cameras which take the same size pictures.

The handsome cabinet encloses a mechanism which receives an Ambroine tray holding twenty-five positives, and, by the simple pressing of a lever or the turning of a small crank, each positive is raised in its turn, to where it may be viewed through the lenses.

After the entire tray of pictures has been viewed it is a simple matter to remove it and place another set in position. By this method of viewing it is never necessary to touch the positives with the hands, thereby protecting the emulsion of the plates from scratches and finger marks.

On each **Taxiphote** is a button or lever, which when pushed, allows the viewing of the clear central portion of the positive where the title of the picture may be written. This, of course, does not apply to the 6x13 cm. or 7x13 cm. positives, as there is no space for writing between the two pictures.

The lens equipment is of the finest and all models have the **Richard** metal pupilary adjustment to insure comfortable viewing and avoiding eye strain.

With the aid of the Richard Projector the Taxiphote may be used for projecting either the right or left side of the positives on a screen. This is a very ingenious device which is instantly attached

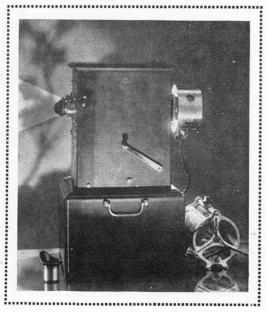
to, or detached from, the back of the **Taxiphote**, and can be operated from the ordinary house lighting circuit.

For those who require more storage space for their positives or who wish a stand to match the appearance of the **Taxiphote**, the **Taxiphote Cabinet** is advised. This is a well made column containing drawers holding four Ambroine trays each. Thus, the cabinet for the No. 2003 **Taxiphote**, having ten drawers, holds one thousand positives and the cabinet for the No. 2066 **Taxiphote**, having twelve drawers, holds twelve hundred positives. These cabinets place the **Taxiphote** in a position for comfortable viewing when seated.

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Special Models

Any Richard Taxiphote may be had, on special order only, finished in fancy and carved wood cabinets. This includes mahogany, carved walnut, rose-wood inlay, etc. The Mechanical model also may be ordered specially, with two sets of lenses and one set of prism inversers for viewing uncut Autochromes. We will be pleased to furnish further particulars and prices for any special model desired.



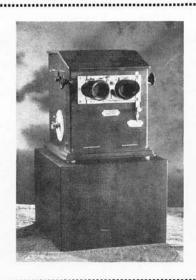
Taxiphote No. 2003 with Projector attached

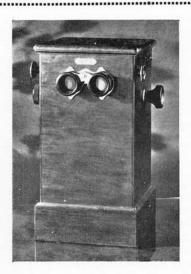
NUMBER	DESCRIPTION	PRICE
2003—Taxiphote, ordinary mechanism to hold 3	y focus, of waxed walnut with cabinet below 00 positives	the \$150.00
that the mechanism ward to the correct	nical Model short focus. This model is mad raises the positive from the tray and brings in distance from the lenses. In waxed walnut 0 positives	t for- with
2041—Taxiphote, Optical N raised behind the lens	Model. Fitted with two optical blocks which, we see, change the size of the picture to the short for in. In waxed walnut with cabinet below for	vhen ocus
2043-Taxiphote, Mechani	ical Model with two sets of lenses and mechan	200.00 nism
adjustable for viewin	g either ordinary or short focus. In waxed wa or 300 positives	lnut

The Taxiphote

Left Taxiphote No. 2066

Right Chain Stereoscope No. 1051





The Simplified Model **Taxiphote** has the same optical equipment and interpuilary adjustment as the more expensive models but the mechanism is somewhat less intricate and is operated by a crank motion. Nor has it any storing space for extra boxes of positives. The cabinet rests on an empty wooden box included with the outfit, placing the eye pieces on a level with the eyes when the **Taxiphote** and box are on an ordinary table.

NUMBER				DE	S	CRIP	TI	ON							PI	RICE
2066 —Taxiphote, 2066a—Taxiphote,	Simpli	fied	Mo	del	of	waxe	d	walnut		, h	boss	No	. 21	01	\$ 3	80.00
hold 300 pos	Simpli	ned .	Mo	del		waxe		wainut	WII	n	base.		. 21		10	00.00

The Chain Stereoscope

This stereoscope was designed for use where the positives are not to be changed frequently. The positives are held by springs in metal frames and the 25 frames revolve on a chain and cog when the large knobs on either side of the box are turned, bringing the slides before the lenses for viewing. The Chain Stereoscope is particularly recommended for commercial use at conventions and in show rooms when it is desired to show photographs of products in stereoscopic form.

NUMBER	DESCRIPTION		PRICE
1051—Richard Chain Stereoscope	e, 25 capacity of waxed walnut		\$50.00

The Taxiphote

6x13 cm. 7x13 cm.

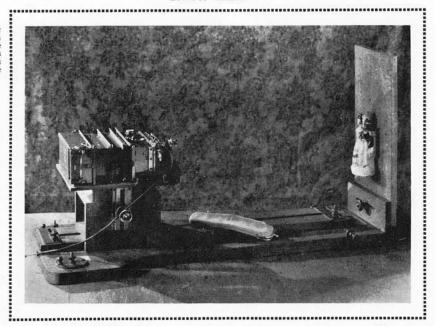
The **Taxiphote** for the pictures taken with the **Verascope** 7x13 cm. or other makes of cameras of similar size, is exactly the same as the smaller model No. 2003, excepting as to size and storage capacity. The base of this model is fitted with two drawers holding four Ambroine trays each, or 200 positives.

NUMBER DESCRIPTION	DDIOE
NUMBER DESCRIPTION 3102—Taxiphote 6x13 cm. in waxed walnut	PRICE \$175.00
3004—Taxiphote taking 6x13 cm. or 7x13 cm. positives, in waxed walnut	φ1/7.00
with cabinet below holding 100 positives	175.00
Pedestals and Accessories	
45x107 mm. 6x13 cm. 7x13 cm.	
2101—Pedestal in waxed walnut for Taxiphote No. 2066, holding 300 posi-	
tives. Without Ambroine positive trays	\$25.00
2111—Pedestal in waxed walnut for Taxiphotes Nos. 2003, 2031, 2041 and 2043, holding 1,000 positives. Without Ambroine trays	70.00
2116—Pedestal in waxed walnut for Taxiphote No. 2066, holding 1,200 posi-	
tives. Without Ambroine trays	75.00
3108—Pedestal in waxed walnut for 6x13 cm. and 7x13 cm. Taxiphotes Nos.	
3102 and 3004 holding 700 positives. Without Ambroine trays	<i>75</i> .00
740—Claire Soliel lamp. This is a triangular metal box, fitted on the inside	
with three mirrors which reflect the light of an incandescent globe through the back of the Taxiphote , illuminating the positive. Four	
colored glasses slide into the open side of the lamp giving the effect of	
viewing the positive by daylight. For all 45x107 mm. Taxiphotes,	
including lamp cord and socket	10.00
4590—Claire Soliel lamp for 6x13 cm. and 7x13 c.m. Taxiphotes	12.00
2155—Ambroine box for 45x107 mm. Taxiphotes (25 capacity)	.75
3155—Ambroine box for 6x13 cm. and 7x13 cm. Taxiphotes (25 capacity) .	1.00
4301—Richard Projector (see description and cut, pages 26-27) for all $45x107$	
mm. Taxiphotes. Outfit includes lamp house and condenser lenses,	
rheostat, one bulb and projection lens which fits in the mounting of the viewing lens. For 110-15 volts	(0.00
1202 Di	60.00
4310—Ditto, for 6x12 cm. or 7x13 cm. Taxiphote, 110-15 volts	65.00
- · · · · · · · · · · · · · · · · · · ·	70.00
4311—Ditto, for 6x13 cm. or 7x13 cm. Taxiphote , 220 volts	75.00
4315—Bulb only for all projectors	1.00

The Banc

45x107 mm.

Richard Banc in operation with three extensions between camera and magazine



For the stereo-photography of very close subjects Jules Richard has designed the Banc, or Bench. With this apparatus, in connection with any 45x107 mm. **Verascope**, stereoscopic pictures of jewelry, small mechanical parts, crystals, flowers, fractures of metal, insects, etc., may be taken.

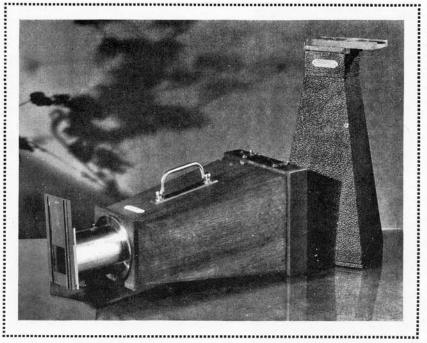
NUMBER	DESCRIPTION					PRICE
4400—Complete Richard	Banc with instructions					\$75.00
	-0.0					

Enlarging Cones

To enlarge on paper from the **Verascope** negatives we offer the Richard enlarging cones. These enlargers are made of solid walnut, with brass fittings to hold the enlarging lens, shutter and negative.

No focusing is necessary. The operation consists simply of sliding the negative in the brass fitting, placing the paper in the holder and for making the exposure by opening and closing the shutter. The light enlarging may be either daylight or an electric globe of 75 watts or more.

NUMBER	I	DESC	RIF	TI	NC									PRICE
4005—For enlargements 33/8" x 4"				***										\$30.00
4020—For enlargements 31/4" x 51	2"	(post	ca	rd)										35.00
4021—Simple model, of light wood	l, i	mitat	ion	lea	the	r cc	ver	ed	for	enla	rge	mer	nts	
2 - (4														9.00



Enlarging Cones Nos. 4005 and 4021

Telephotography With the Verascope

Telephotography is possible with the **Verascope** 45x107 mm. by using a pair of 6x Prism Binoculars in connection with a stand, or small table, holding the **Verascope** and binoculars. This stand may be placed on a strong tripod. If it is desired to purchase this apparatus it is necessary to send your **Verascope** to the manufacturers, as the binoculars must be fitted to the camera before using. If purchasing a new **Verascope** and the Telephoto attachment is desired, it is advisable to order the entire outfit from the factory to save time.



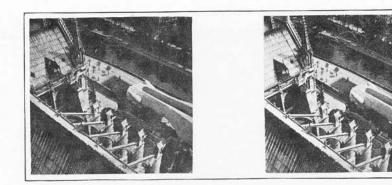
Richard Positives

Jules Richard has accumulated a wonderful library of Stereoscopic views from every country in the world. A limited number of subjects are carried in stock at the United States Agency for sale and we would be pleased to receive orders for them direct. The credit for these sales will be given to your local dealer if he carries the Richard line.

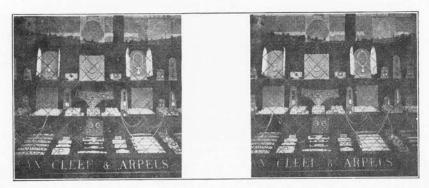
A catalog of the entire library of views is kept at hand and will be mailed to you for the selection of views if returned promptly.

Prices and further information for items on this page will be furnished on request. Views not in stock will take about one month for delivery.

31



The Seine from top of Notre Dame Cathedral, Paris



\$1,000,000 window display, Place de la Concorde, Paris No. 2016 Auxiliary Lenses used.



Minnehaha Falls, Minneapolis

Dry Plates for Stereoscopic Photography

Manufactured by Grieshaber, Freres & Cie, Paris, France

After testing many different makes of dry plates with special attention to their adaptability to stereoscopic work, the Grieshaber "Ace of Clubs" plates were selected without hesitation. They are offered to you as the finest product of their kind in the world; a worthy medium for recording the impressions of the Verascope.



"Ace of Clubs'



REPORTER—The only plate manufactured with all the following advantages. 500 H&D (1/12 B&W), Anti Halation, Orthochromatic and Self Screened. The Anti Halation backing is between the emulsion and the glass and disappears during development. A wonderful plate for speed work early or late in the day when the light is yellow and ineffective on the *non*-orthochromatic plate, regardless of its speed.

RED LABEL—A fast non-orthochromatic plate with a speed of 300 H&D (1/8 B&W), with remarkable latitude, fine grain and perfect gradation. The stereo worker may use this plate at an exposure of 1/50 of a second at f. 8 for all sunlight snap shots and be assured of fine average results.

ANTI HALO—The finest all round plate manufactured for stereo work. Highly orthochromatic and Non Halation with a speed of 250 H&D (1/6 B&W). Negatives made with this plate are snappy and clear as crystal.

INTEGRUM—H&D 100 (B&W 1/2). A slow, Self Screened, Orthochromatic, Non Halation plate with extremely fine grain and wonderful gradation, for photographing interiors and subjects which may be given slow exposures. A perfect plate for use with the Richard Banc and for still life pictures where fine grain is essential.

DESCRIPTION			PRICE	
		45x107 mm.	6x13 cm.	7x13 cm.
REPORTER—Per dozen, thin glass .		\$ 0. 7 0	\$0.90	\$1.10
RED LABEL—Per dozen, thin glass		.60	.80	.90
ANTI HALO—Per dozen, thin glass .		.65	.85	1.00
INTEGRUM—Per dozen, thin glass .		.65	.85	1.00

General Suggestions

For Good Stereoscopic Results

Handle your camera, accessories and plates with care. They are finely made, sensitive products and will respond to good treatment.

Dust the plates with a camel hair brush while loading the camera, as well as just before putting them in the developer. Keep the outside and inside of the camera free from dust by cleaning it before using.

The most important point in the composition of a stereoscopic picture is *foreground*. Always have some object in the near foreground when distant views are photographed. Remember that the stereoscopic effect in objects over forty feet away is greatly reduced unless there is some object in between the camera *and* the subject. A good rule is to always try to get more terra firma than sky. This will keep the camera down so that something *will* be in the foreground.

Hold the camera steady when making the exposure. Press the release slowly and take plenty of time in composing your pictures.

Do not expect to get beautiful pictures when the light is poor. The fast lenses and plates will enable you to get *full exposures* but they will also faithfully record the dull, flat lighting.

Always look to see that the plate is changed and that the shutter and diaphragms are properly set. (We once took twelve beautiful(?) snapshots with the shutter set for time exposure.)

It is not possible to get good results when finishing pictures with slip-shod developing and printing methods or accessories.

Use a real safe light in your dark room and be sure the room is dark.

Never touch the emulsion of the plates or films with the fingers.

Pay the strictest attention to the strength of the developer, the temperature and the time of development.

When the plates or films are removed from the wash water, hold them in running water and wipe the surface of the emulsion gently with a piece of wet absorbent cotton.

We read in a manual on stereoscopic photography that stereoscopic negatives should be contrasty. This is absolutely wrong. The most beautiful results are produced from soft negatives. With this in mind, if your developer is producing contrasty negatives, use the solution slightly more diluted or, shorten the time of development until the contrast is eliminated.

And, most important, use a Richard camera and accessories.

Developers

For Stereoscopic Finishing

These formulas are the result of many years of experience in the finishing of stereoscopic pictures and are furnished in the hope that they will enable those who do their own work to achieve the best results possible.

STEREO M. Q. (concentrated liquid universal developer)

				A	AVOIRDUPOIS	METRIC
Metol or Elon					90 grains	6.00 grams
Hydroquinone					300 grains	17.50 grams
Sodium Sulphite (desiccated) .					2⅓ ounces	71.00 grams
Caustic Solution (see foot note)						28.50 ccs.
Potassium Bromide crystals					50 grains	3.50 grams
Water to					16 ounces	455.00 ccs.

The Caustic Solution is prepared by dissolving 1 part of Caustic Potash in water to 2 parts, i.e., 4 ounces of Caustic Potash and add water up to 8 ounces. Dissolve the Metol and Hydroquinone in about 14 ounces of hot water and add the Sulphite. A white precipitate will form. Stir well for a short time and add the Caustic Solution, which will clear the precipitate. Then add the Bromide and water up to 16 ounces.

	AVOIRDUPOIS	METRIC
To develop negative plates, take, Developer	1 ounce or 11 ounces or	28.50 ccs.
Time for development, about 4 minutes at 65°		717.00 ccs.

For black tone positives, lantern plates, gaslight or bromide papers, this developer is unexcelled and should be used about 1 to 16. (One ounce of developer to 15 ounces of water.)



STEREO PYRO (three solution negative developer)

	AVOIRDUPOIS	METRIC		
"A" Pyro	. 1 ounce	28.50 grams		
Potassium Metbisulphite crystals	. 70 grains	4.50 grams		
Potassium Bromide crystals	. 25 grains	1.50 grams		
Water to		455.00 ccs.		
"B" Sodium Sulphite (desiccated)		49.50 grams		
Water to	. 16 ounces	455.00 ccs.		
"C" Sodium Carbonate (desiccated)	. 1 1/4 ounces	35.50 grams		
Water to	. 16 ounces	455.00 ccs.		
To develop take 1 curse of each solution and water to make 12 curses				

To develop, take, 1 ounce of each solution and water to make 12 ounces. Time for development, about 7 minutes at 65° F., Tank or Tray.

Developers

For Stereoscopic Finishing

ILFORD ALPHA (Richard formula for Ilford Alpha positive plates)

	AVOIRDUPOIS	METRIC
"A" Sodium Sulphite (desiccated)	1 ounce	28.50 grams
Hydroquinone		9.50 grams
Water to		284.00 ccs.
(Dissolve the Hydroquinone fi	rst, in hot water.)	
"B" Sodium Carbonate (desiccated)	2 ounces	5 6.50 grams
Water to		284.00 ccs.

To develop, take, 1 ounce each of "A" and "B," 8 ounces of water and 30 to 60 drops of a 10% solution of Potassium Bromide solution. Temperature about 70° F. This strength, with normal exposure, will produce Brown or Red Brown tones. For Sepia tones, use less water and shorter exposure. For Red tones use more water and longer exposure.

PYRO-AUTOCHROME Developer

		AVOIRDUPOIS	METRIC
"A"	Water	 4 ounces	113.50 ccs.
	Sodium Bisulphite (saturated solution)	 2 drops	.12 ccs.
	Pyro	 1 dram	3.50 grams
	Potassium Bromide crystals	 1 dram	3.50 grams
"B"	Water	 3 ounces	85.00 ccs.
	Sodium Sulphite (desiccated)	 . 3 drams	11.50 grams
	Ammonia (26%)	 . 4 drams	14.00 ccs.

To develop, take $2\frac{1}{2}$ drams each of "A" and "B" and make up to 3 ounces with water. Time for development, $2\frac{1}{2}$ minutes at 60° F.

This is the developer which is used by Jules Richard in developing all of their stereoscopic Autochromes. They find that it gives more brilliant colors with less chemical fog than any other formula. It is *very important* that fresh Autochrome plates be used to get perfect results, and that the temperature of the developer, reversing solution and wash waters be kept below 65° F. while working.

AUTOCHROME REVERSING SOLUTION (concentrated solution)

	AVOIRDUPOIS METRIC
Potassium Bichromate	60 grains 4.00 grams
Water	16 ounces 454.50 ccs.
Sulphuric Acid (C. P.)	6 drams 21.50 ccs.

Use this solution 1 part to 3 parts of water.

For Second Development use Amidol, Rytol or any good Metol Hydroquinone developer.



All genuine Richard products bear this trade-mark