

MARION'S

LENSES.

Marion & Co.'s Lenses have now been before the public for several years, and have won much approval.

WE GUARANTEE EACH LENS PERFECT.

QUICK-ACTING RECTILINEAR.

METAL MOUNTS NICKELED.

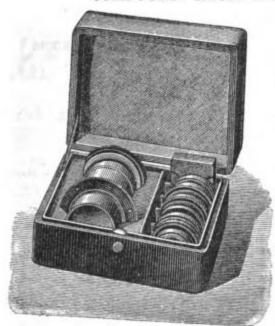
No.	Size of Plates.	Diam. of Lens.	Back Focus.	s.	d.
I.	41 × 31 and 5 × 4	I1 18	6	42	0
2.	61 × 42 and 71 × 5	I 3	8	61	0
3.	$8\frac{1}{2} \times 6\frac{1}{2}$ and 8×5	111	10 1	71	0
4.	10 x 8	2	12	95	0
5.	12 × 10	2 3	134	142	0

J. ANDERSON, Chartered Bank of India, Calcutta.—"I have seen one of your 71/ Whole-Plate Rectilinear Lenses as good as any of Dallmeyer's."

WIDE-ANGLE RECTILINEAR LENSES.

No.	Size of Plates.		Diam. of Lens.		Back Focus.		s.	d.
6.	41× 31	***	4		17		45	0
7.	64× 44	•••	118		28	***	60	0
8.	$8\frac{1}{2} \times 6\frac{1}{2}$		1,5		5	***	80	0
9.	10 × 8		111	•••	8	***	100	0
10.	12 × 10	,	215		12	•••	140	0

MARION'S COMPOUND RECTILINEAR LENS.



Fitted in case with combinations for 1, 1, and 1 plates, price £5:5s. Thus we have one Lens serving for three sizes of plates.

Directions for using.-The Lens as sent out is fitted with glasses for the † plate size of plate, and will be used so for that size. If required for ½ plate, the Lenses 3B and 3H are unscrewed and replaced by those numbered 3. When ‡ plate is the size desired, unscrew either } or 3B and 3H, replacing by 1.

PORTRAIT LENSES.

100.	SERVICEABLE PORTRAIT LENS for C.D.V., 178 diameter, 4 focus .			£1	8	0
	for Consumos and 61			2	5	0
102.	EXCELSIOR C.D.V. and CABINET LENS, 278			3	5	0
103.	For PROMENADE and CABINET, will cover a whole plate, Nickel	Moun	ts,			
	quality guaranteed			13	0	0
	EXTRA RAPID C.D.V. PORTRAIT LENS, Nickel Mounts			3	10	0
105.	EXTRA RAPID CABINET ,, ,,	• •		9	0	0
	EXTRA RAPID PROMENADE and CABINET PORTRAIT LENS			10	0	0
107.	PORTRAIT LENS for to X8 Plates, diameter 4, focus 17, Nickel Moun	its .		20	0	0
	Ross and Dallmeyer Lenses supplied at lowest list f	rices.				

FOCUSSING GLASSES.

These are of the greatest possible convenience in getting perfectly sharp pictures; we recommend their constant use. 5s. and 10s. 6d. each.

From Captain A. POLLOCK, The Barracks, Belfast, Ireland.—"Your Lens is a very good one, and I got some excellent negatives with it."—February 14, 1885.

From JAS. HASLAM, Esq., Heywood, Ballinakill, Ireland.—"I cannot speak too highly of your goods, they are everything I could wish. The Lenses work beautifully."—May 8, 1886.

From W. HAWLEY, Esq., Spring Vale, near Ryde.—"The Lens you sent me on approval is an excellent one. . . . It is a great pleasure to work with such excellent material as yours, and I am extremely pleased with all."—March 25, 1886.

VOIGTLÄNDER'S NEW LENSES.

(See that Voigtländer's name is on the tube.)

MARION & CO., Sole Agents, 22 & 23 SOHO SQUARE, LONDON.

PORTRAIT EURYSCOPES.

Aperture Equivalent Focus . Size of Plate	No smaller sizes will be made.	2 ins. 7 3 ", Carte d size, ac	No. 4. 2½ ins. 9½ te Visite cording gth of dio.			No. 7. 4 ins. 173 ,, Cabinet and Panel Size.
Prices		<i>27</i> : 14a.	£ 11.	£16:10s.	£22.	£28.

No. 3, No. 4, No. 5 have Back Movement, all others Rigid Settings.

PORTRAIT EURYSCOPES (A).

Rigid Settings.

	No. 1a.	No. 2a.	No. 3a.	No. 4a.	No. 5a.	No. 6a.	No. 7a.	No. 8a.
Aperture	r1 ins.	17 ins.	2 ins.	2⅓ ins.	3 ins.	3½ ins.	4 ins.	5 ins.
Equivalent Focus	61,,	71 ,,	88 ,,	108 ,,	13 ,,	151 ,,	193 "	25 ,,
Size of Plate	Stereosc.	4×5 "	5×6 "	6×8,,	8×10,,	10×12,,	12×15,,	16×20,,
Prices	£5:10s.	£6:8s.	£7:14s.	£11.	£16:10s.	£22.	£28:12s.	£52 : 5s.

Mr. Voigtländer's Description of the New "Portrait Euryscopes."

These new lenses, unlike the portrait lenses of usual construction, composed of one cemented front objective, and the back objective, of two separated single lenses of entirely unsimilar shape, consist of two perfectly symmetrical and cemented objectives, resembling those of the Euryscopes, and offer important advantages over the said existing constructions.

advantages over the said existing constructions.

By uniting the two separated lenses of the back objective into one compound lens, a considerable amount of light formerly lost by the great number of reflecting surfaces has been saved, and by thus avoiding all "diffusion of light," the new objective gives more intensive pictures and better definition.

Besides, by the perfect symmetry of both the composing objectives a superior marginal definition and a more perfect illumination spread all over the picture have been obtained; hence, with the same focal length as formerly, a larger extension of the surface can be used, *i.e.* the angle of view and the picture itself become larger.

VOIGTLÄNDER'S LENSES-Continued.

They work without any distortion.

These "Portrait Euryscopes" are manufactured of two systems as regards the intensity of action, the first system having the same proportion (i.e. ratio of aperture to focal length) as the portrait lenses of normal rapidity, but offer the advantages of a larger picture, greater depth of focus, and a generally im-

proved picture.

The second system, and this will be found to be most useful, has a little longer focal length, i.e. a little less amount of light; however, it will prove to be still sufficiently rapid for all ordinary portrait work in the studio, except for taking children, etc., where the so-called extra rapid portrait lenses are indispensable, and, as we may mention here, in the construction of which no alteration takes place. Still a larger angle of view, still a greater depth of focus, are the properties in which this system excels the first, and consequently, besides for single portraits they will be most useful for taking groups in short studios, when the use of ordinary Euryscopes, on account of their too long focal length, is precluded.

They will be excellent for instantaneous work, inasmuch as a "flare" which

can occur in portrait lenses when used in the open air does not exist.

In fact, this system of the "Portrait Euryscopes," on account of their ratio of aperture to focal length, will fill a gap in the series of the existing photographic lenses, and we may state that their weight and shape are by far not so heavy and clumsy as those of the ancient long-focussed portrait lenses.

We further wish to state herewith that the present construction of all

existing systems of the Euryscopes will not be subject to any alteration.

Reprint from the "Photographischen Correspondenz," No. 310, July 1886.

Report of Committee of the Photographic Society of Vienna, appointed to test the new "Portrait Euryscopes" introduced by Fr. von Voigtländer.

The undersigned have examined the new Portrait Euryscopes constructed by Chevalier von Voigtländer, of Brunswick, as to their capacity for taking portraits and groups, and have compared them with the Patzval Portrait

Objectives made with separate hand lenses as hitherto used.

The trials were carried out with a new Euryscope, one of 78 mm. = 3 in., and two of 104 mm. = 4 in. diameter of lens, and compared with ordinary portrait objectives of the same dimensions (with separate hand lenses) in taking single figures and groups. The Euryscope consists of symmetrical objectives in which the front and back lenses are cemented. The diameter of lens, width of focus, and illumination of the instruments tested will be seen in the following table:—

,	Diameter of Lens.	Equivalent Focus.	Proportion of Aperture to Focus.
PORTRAIT EURYSCOPE, No. 5A	3 inches	13 inches	I:41/3
PORTRAIT EURYSCOPE, No. 7A	4 inches	19g inches	I:41/4

VOIGTLÄNDER'S LENSES-Continued.

The angle of the perspective field in the Euryscope possesses rather above 50°, while in an old 4 in. portrait objective it does not possess more than

about 40°.

The trials which have been made by the undersigned have shown that the results of the "Portrait Euryscopes," compared with those of the best portrait objectives, as made hitherto, and which we had at hand for comparison, are, as a rule, quite equal. The illuminating power of the "Portrait Euryscopes" No. 5A and No. 7A in practical photographic experiments in the studio has been found to be quite equal to that of Voigtländer's ordinary portrait objectives of normal focus (i.e. 105 mm. (4½ in.) aperture, 478 mm. (18½ in.) focus, giving proportion of aperture to focus of I: 4.50), although the last named has a somewhat shorter focus than the first; the reason of this is that the light in traversing the cemented back lenses loses less light than by traversing back lenses when separated. The delineation of the image in a portrait by the Euryscope is more defined than with the ordinary portrait objective; the distribution of the lines on the surface of the image is more enlarged, the vista is more uniformly illumined, and the angle of the perspective is larger. The Euryscope gives a more exact representation of the straight lines.

The size of the image (plates) which the Euryscope gives in taking groups is shown by the following figures: The 4 in. Euryscope gives an image of 48 cm. (19 in.) diameter, whilst an ordinary 4 in. Voigtländer's objective, with separated back lenses, gives an image of only 36 cm. (14 in.) diameter.

The Euryscope answers to the requirements of all kinds of work in the photographic studio, and is specially suitable for taking groups in small studios, since it possesses a larger angle of perspective and a larger figure surface.

In conclusion we may add that the new Voigtlander "Portrait Euryscope"

In conclusion we may add that the new Voigtländer "Portrait Euryscope" is the first characteristic improvement in strong portrait objectives since the introduction of the portrait construction with separate back lenses forty years ago, by reason of the above-mentioned advantages.

VICTOR ANGERER. Prof. J. M. EDER. J. LÖWY.

FRITZ LUCKHARDT.

CH. SCOLIK.
Dr. JOS. SZEKELY.
VICTOR TOTH.
O. VOLKMER.

CARL WRABETZ.

Vienna, May 28, 1886.

VOIGTLÄNDER'S NEW LENS, THE "PORTRAIT EURYSCOPE."

From the "Photographic News" of September 10, 1886.

From Messrs. Marion and Co., who are acting as agents to Voigtländer, we receive a new portrait lens, which has just been put upon the market to replace the original Petzval form, a form which has held almost undisputed sway during the past forty years.

The new instrument is virtually a combination of the modern symmetrical type, but having the lenses so large as to give a light intensity equal to that of the old portrait combination—that sent to us having an aperture of a trifle under 3 in. (the lenses are exactly 3 in.), with an equivalent focus of II \(\frac{3}{2}\) in., thus

VOIGTLANDER'S LENSES—Continued.

representing an intensity of about 4, or No. 1 of the Photographic Society's

Although the intensity may, numerically considered, be equal to No. I as applied to the old portrait lens (the only instrument hitherto manufactured with an aperture as large as (), we should expect the actual working rapidity to be superior to the & of the old portrait combination; as by the use of the cemented back combination two reflecting surfaces are avoided.

As regards rapidity, then, we may take the new instrument as equal to the usual portrait combination; while as regards equality of definition and flat-ness of field, it is enormously superior—unless, indeed, when flatness of field has been secured in the old portrait combination by a sacrifice of other qualities. With respect to absolute separating power, we must only make a statement as regards the particular instrument sent to us, for no two lenses can be identical in this respect. It is an instrument having an equivalent focus of II in.; and with the full aperture of 3 in., lines in the centre of field, at a distance from one another of a three-hundredth of an inch, are clearly separatedshowing the instrument to be perfectly adapted for copying the finest work, a small stop being used, as a matter of course. We are informed that the instruments now manufactured range from 2 in. diameter, and 78 equivalent focus, to 5 in. in diameter, and 25 in. equivalent focus; affording a selection suited for work ranging from carte-de-visite to the life-size head taken direct. This largest size, it will be noted, has an intensity of 4.

The lens, being symmetrical, can be used either way about, whether for portraiture, copying, or enlarging—a matter of some convenience when an instrument is, like the present, adapted for various classes of work, and is to

be used on several cameras.

The angle included is very considerably wider than that which was possible with the old form of portrait lens-a matter of convenience when, owing to the shortness of the studio, one is compelled to use a lens of short focus; although we may say that for portraiture it is seldom, if ever, desirable to include a wide angle.

We have no particulars as to the prices of the new "Portrait Euryscope;" but, if the difficulties of constructing the deep meniscus lenses of large diameter, in relation to the focus, have been so far overcome by Voigtländer and Co. as to enable them to supply the new instruments at about the same price as the old portrait combinations, there will probably be a large demand.

It should be mentioned that either combination of the lens now described may be used by itself on a larger plate, but in this case the marginal lines will not be quite straight. If the front lens is used, and with the stop at back, the distortion will be pincushion-like; while if the back lens is used with the stop in front, the distortion will be of the "barrel" order.

Of course, it is not quite fair to an optician to use a part of his lens, and to accredit him with the resulting faults in the image, but it is often useful to be able to extemporise an instrument of about double the normal focal length, and, in the case of a portrait, the distortion resulting from the use of half the lens would be so trifling as to be quite unnoticeable.

VOIGTLÄNDER LENSES.

MARION & CO., Sole Agents.

The new Patent "EURYSCOPE" is unequalled. We believe these world-renowned Lenses to be the BEST OBTAINABLE. They possess every desirable quality, and in no single particular are they excelled by any Lenses sold.

RAPID EURYSCOPE.

No.	Aperture.	Equivalent Focus.	Size of Landscape.	Size of Group.	Price.
0 00 1 2 3 4 5 6 7	inch. 11	47 inches. 62 " 86 " 92 " 11 " 164 " 206 " 231 " 302 "	42 × 32 52 × 42 6 × 5 7 × 6 82 × 82 102 × 82 13 × 102 16 × 13 20 × 17 25 × 22	4 X 3 4 X 3 X 5 X 4 X 5 X 4 X 5 X 5 X 5 X 5 X 5 X 5	£3 6 0 4 8 0 5 10 0 6 7 0 7 14 0 11 0 0 16 10 0 22 0 0 28 12 0 52 5 0

MEDIUM RAPID EURYSCOPE.

Equal in rapidity to the Lenses sold by other Makers as Rapid.

No.	Aperture.	Equivalent Focus.	Size of Plate.	Price.
0a 00a 1a 2a	i inch.	6 inches.	5 × 4 7½× 5 8½× 6½ 10 × 8	£3 15 0 4 12 0 6 3 0 7 5 0
3a 4a 5a 6a 7a	2 inches. 2½ ,, 3 ,, 3½ ,, 4 ,,	13 ", 16 ", 20 ", 24 ", 28 ", 32 ",	12 × 10 15 × 12 18 × 16 22 × 18 25 × 22	7 16 0 13 4 0 19 7 0 25 6 0 31 18 0

WIDE ANGLE EURYSCOPE.

No.	Aperture.	Equivalent Focus.	Large Stop.	Small Stop.	Price.
00 0 1 2 3 4 5 6	A inch.	31 inches. 46 "" 55 "" 65 "" 75 "" 15 "" 20 "" 25 "" 32 ""	4 × 3 5 × 4 6 × 4 72 × 52 82 × 72 13 × 11 17 × 15 21 × 19 23 × 21	5 × 4 72 × 5 8 × 6 9 × 7 10 × 8 12 × 10 16 × 14 20 × 18 24 × 22 26 × 23	£3 13 0 3 19 0 4 8 0 4 19 0 6 7 0 8 7 0 11 0 0 15 8 0 20 9 0 33 9 0

From BASIL S. O. DOBREE, Tyssul Cottage, 6 Daniel Street, Newport (Mon.)—
"Dear Sirs—It gives me great pleasure to be able to state that I am very pleased with the No. I Wide Angle Voigtländer you sent me some days since; after putting it to the most severe tests with instruments specially made for testing lenses, we came to following results, which I beg to forward on another sheet, together with test of No. coa Voigtländer. The faults found are so infinitesimal that I doubt whether two better lenses could be readily obtained."

We shall be pleased to send any of the above Lenses on trial for a few days. The measurements given, both as regards diameter and size of plate, are rather under than above.

can possess for general outdoor purposes. They are invaluable for all kinds of architectural subjects, dimly-

lighted interiors, copying, enlarging, etc.

The Rapid Symmetricals, being aplanatic, work with full aperture, and are perhaps the best and most useful Lenses an Amateur or Professional Photographer

For Groups, Views, Interiors, Copying, and every

kind of Outdoor Photography.

RAPID SYMMETRICAL LENSES.

ROSS' LENSES.

Ten per cent allowed off this List of Ross' Lenses.

PORTABLE SYMMETRICAL LENSES.

For Landscapes, Architecture, and Copying.

Since the introduction of photography perhaps no ens for landscapes and architectural purposes has This is doubtless attributable had so great a share of popularity as the Symmetricals. They are now universally used by many of our most eminent photographers.

as well as the exceedingly portable form in which they to their extraordinary definition and flatness of field, are constructed, all fitting the same flange.

,	000000000
Price.	0 ~ 5 0 0 0 0 0 0
д	£ 2 4 20 7 8 9 0
Large Stop.	884420425801
8	****
Lan	84.24.88.00 12 E
Focus.	3 inches. 55 66 88 12 15 15
Nos.	1 4 5 4 5 6 6 6

Larger sizes to order.

Larger sizes to order.

Price.	64 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
Focus.	4½ inches. 6 7½ " 8½ " 11 13 " 16 " 20 "
Group Size.	Stereo. 24 × 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
View Size.	22 × × × 5 24 × × × × 5 25 × × × 5 27 × × × 5 28 × × 5 27 × × × 5 28 × × × 5 29 × × × 5 20 × × × × 5 21 × × × × × 5 22 × × × × × × × × × × × × × × × × × ×

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DALLMEYER'S LENSES.

RAPID RECTILINEAR LENS (Patent).

(Introduced 1866.)

Each Lens is supplied with a Set of Waterhouse Diaphragms. (Observe! The apertures of stops are too large to admit of being made in the form of a rotating diaphragm, as supplied with the "wide-angle" Rectilinear.) Each Lens marked below, with smaller stops, can be used for the next size larger view.

Size of View or Landscape.	Size of Group or Portrait.	Diameter of Lenses.	Back Focus.	Equi- valent Focus.	Price, Rigid Setting.	Price, Sliding Tube.	Price, Rack and Pinion.
Inches.	Inches.	Inches.	Inches.	Inches.	£ s. d.	£ s. d.	£ s. d.
4t × 3t 5 × 4 6×5 for 8×5	31 × 31 41 × 31	- 1	39 59	6 81	3 15 0 4 10 0	4 15 0	5 5 0
81 × 61	6 × 5	11	102	11	7 0 0	7 10 0	8 0 0
12 X 10	8½ × 6½ 10 × 8 French Size.	2	12½ 15 16	16	9 0 0	9 10 0	10 5 0 12 5 0
13 X 11 15 X 12 18 X 16	13 X 10	21/2	18	192	12 0 0	12 15 O 15 15 O	The 41 × 31 Lenses are
22 X 20	15 × 12 18 × 16	3 31	22± 28	24 30	20 0 0 27 0 0	28 0 0	constructed for lantern
25 X 21	33 X 30	4	31	33	32 0 0	33 10 0	pictures.

^{*} These Lenses are also well adapted for Stereoscopic Views, and can be had in pairs.

To obtain the best results with the sizes larger than 10×8 , always focus with No. 3 stop, whether the photograph is to be taken with a smaller or a larger one.

WIDE-ANGLE RECTILINEAR LENS (Patent).

The Lenses are mounted in Rigid Settings or Tubes, and each is furnished with a Rotating Diaphragm Plate. In the column below the largest size of plate covered by each Lens is recorded; and if microscopic definition up to the corners be required, the smallest, or smallest but one, stop should be used.

No.	Largest Dimension of Plate.	Diameter of front combination.	Back Focus.	Equivalent Focus.	Price.		
*1AA 1A 2 3 4 5	Inches. 71 × 41 81 × 62 12 × 10 15 × 12 18 × 16 22 × 20 25 × 21	Inches. 12 12 22 23 33	Inches. 31/2 48/61/61/61/61/61/61/61/61/61/61/61/61/61/	Inches. 4 51 7 81 13 151 19	£ s. a 4 10 6 5 10 6 7 10 6 10 10 6 14 0 6 30 0 6		

^{*} This Lens is also well adapted for Stereoscopic Views.

* Extensively used by Professional Photographers where position will not allow the use of 16-inch focus. Ten per cent is allowed off the price of the above Lenses for cash with order.

					1		_		_		_		_			_	_	_	_		
			256	64	Price in Rigid Setting.	£3 12 0	3 16 0	4 14 6	5 3 6	5 17 6	6 15 0	7 12 0	0 6 6	0 6 6	0 6 6	10 7 0	13 0 0	16 13 0	22 IO O	27 0 0	36 0 0
ES.	d Groups.		64 128	32 45.255	Equivalent Focus.	4½ in.	,,	7½ ,,	6	" "11	12 ,,	14 "	," 9I	14 "	13 "	., 81	20 ,,	24 ,,	30 "	34 "	38 "
LENSES	Portraits, ar	rked thus:-	32	22,22	Diameter of Lenses.	.ii	ı "	14,"	I week	11 3 "	ngio:	13,	7	2	2	24 "	25, ,,	3,	3½ "	4 "	4½ "
& SON'S	for Views, I	Waterhouse diaphragms marked thus:-	91	14 16	Size of Group.	Stereo.	$4\frac{1}{4} \times 3\frac{1}{4}$, x	74× 44	8, ×	$8\frac{7}{4} \times 6\frac{3}{4}$	83× 63	10 × 8	10 × 8	10 × 8	6 × 11	13 × 11	15 × 12	91 × 81	22 × 18	25 × 20
SWIFT 8	The Rapid Paragon for Views, Portraits, and Groups.	Waterhous	44	7 8 11.314	Size of View.	4 × 3	5 × 4	9 × 2	× ×	8½× 6½	0 × 7	10 × 8	12 · X 10	12 × 10	*12 × 10	13 × 11	15 × 12	91 × 81	22 × 18	25 × 22	28 × 24
<i>0</i> 1	The F		U.S. Nos.	2.657	Working Intensity.	U.S. No. 2 F 5'657	•	•	U.S. No. 306 F7	U.S. No. 4 F 8			•	•				•			"

MARION & CO., 22 & 23 Soho Square, London, W