

符 号 说 明

1. 凡数据后有符号“*”，表示光栏位置或其值间有光栏。
2. 凡没有注明数值单位的，均以毫米为单位；若注明以英寸为单位，则在该镜头资料中均以英寸为单位。

3. 常用符号：

ΣS_1	球差系数和；
ΣS_2	彗差系数和；
ΣS_3	象散系数和；
ΣS_4	场曲系数和；
ΣS_5	畸变系数和；
LA'	球差；
$\Delta H'$	绝对畸变；
x'	细光束子午场曲；
x'_s	细光束弧矢场曲；
$x'_s - x'$	象散；
K'_{T1}	全口径的子午彗差；
$K'_{T0.7}$	0.707口径的子午彗差；
QP	相对畸变；
HI	理想象高；
E.F.L	焦距；
B.F.L	后截距；
FNo.	相对孔径倒数；
F.A.	视场角（有些资料中无 F.A. 数据，象差曲线是按 F.A. = 8° 来计算的，可扩大容限）；
L'_p	入瞳距离；
η	物高；
◎	镜头视场。

编号: 01-00-001

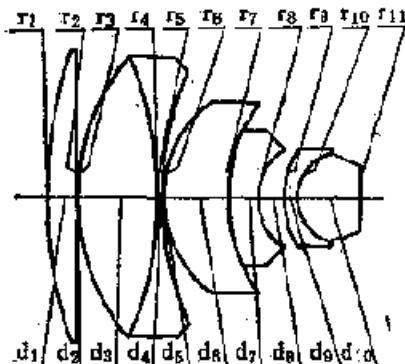
摄 影 物 镜

E. F. L = 100

B. F. L = 7.12

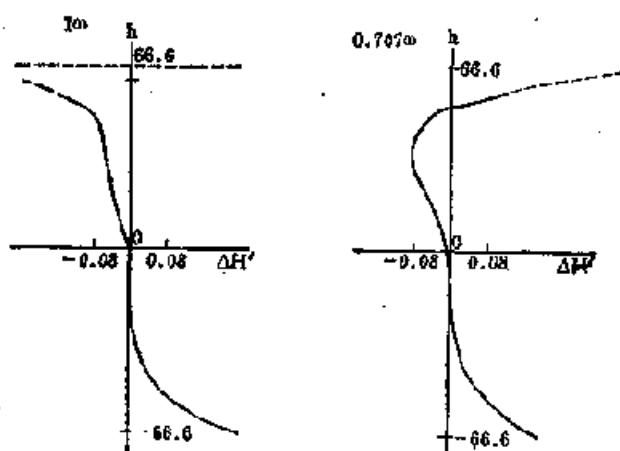
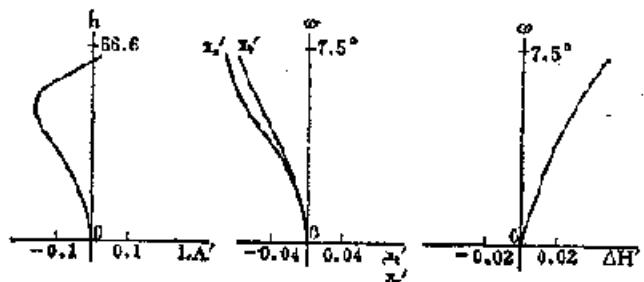
FNo. = 0.75

F. A. = $\pm 7.5'$



序号	r	f	d	n	v	序号	r	f	d	n	v
1	206.0	14.5	1.6940	54.5		7	71.7	14.50	1.7343	28.4	
2	8390.0	0.2				8	24.19	13.42			
3	98.95	36.4	1.6725	44.7	9	57.5	5.44	1.8241	36.1		
4	-165.4	2.43	1.7343	28.4	10	21.70	30.0	1.7922	50.2		
5	130.0	0.2			11	∞					
6	52.40	30.7	1.6940	54.5							

	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	H1	QP (1m)
	-0.47	-0.15	0.0029	-0.18	0.12	13.15	0.34%
h 或 α %	I.A'	$\Delta H'$	x_t'	x_s'	$x_t' - x_s'$	K_{T1}	$K_{T0.7}$
100	0.01 ∞	0.045	-0.079	-0.093	0.014	5.4	-0.0015
70	-0.16	0.028	-0.051	-0.075	0.024	0.67	-0.3094



编号: 01-00-002

六组元大相对孔径摄影镜头

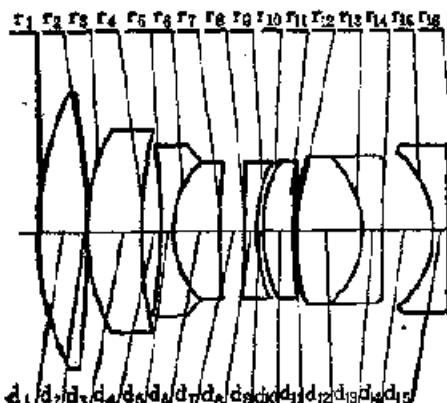
E.F.L = 125

B.F.L =

FNo. = 0.80

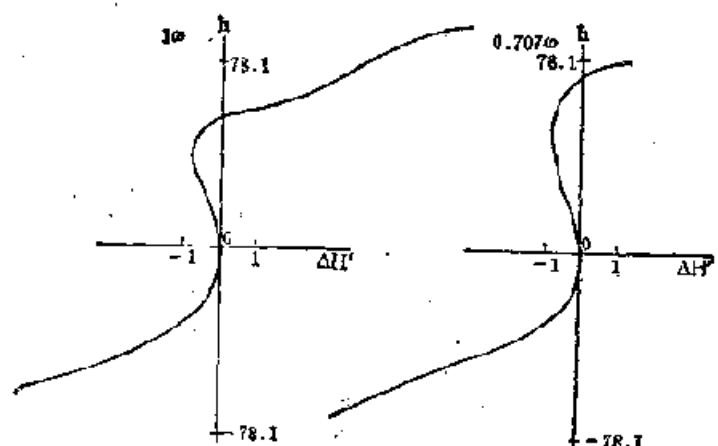
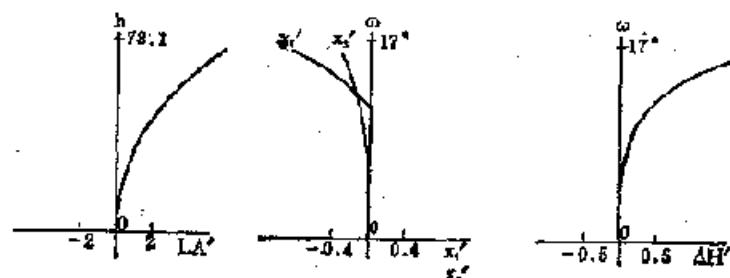
F.A. = 34°

$L_p' = 0$



序号	r	d	n _d	v	序号	r	d	n _d	v
1	221.1	38.3	1.6204	59.8	9	115.7	6.1		
2	-784.0	0.7			10	110.9	23.7	1.6242	47.0
3	143.2	21.6220	1.6220	53.0	11	310.5	1.2		
4	570.9	10.1			12	137.0	50.4	1.6255	35.7
5	-428.3	12.7	1.6728	32.2	13	-74.7	14.2	1.7281	28.4
6	79.1	31.6	1.6202	60.3	14	7492.0	37.5		
7	481.3	17.6			15	-72.1	11.0	1.5686	66.1
8	3913.0	11.7	1.6254	35.8	16	∞			

ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	HI	QP(1φ)
3.6	-2.5	0.14	-0.39	0.78	38	4%
h 或 φ%	LA'	$\Delta H'$	x_1'	x_2'	$x_1' - x_2'$	K_{T1}
100	5.8	1.5	-0.86	-0.35	-0.50	7.6
70	2.6	0.34	0.017	-0.14	0.15	-8.1
					$K_{T2,1}$	



编号: 01-00-003

透 镜 系 统

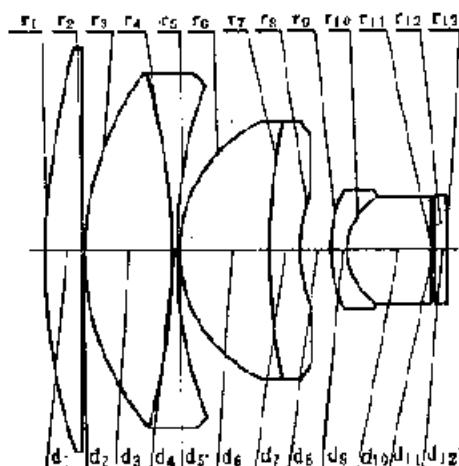
E. F. L = 100

B. F. L =

FNo. = 0.68

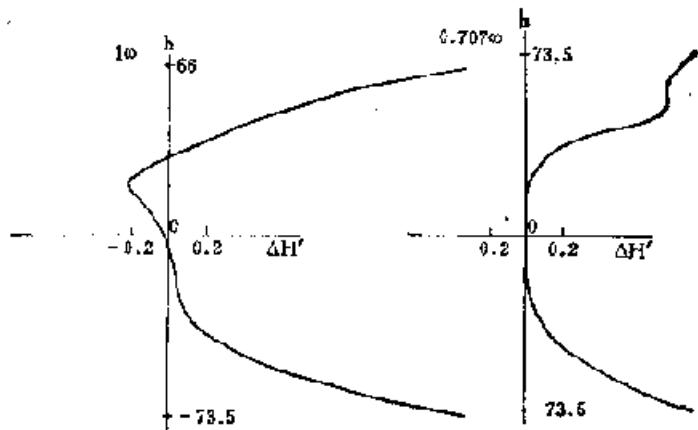
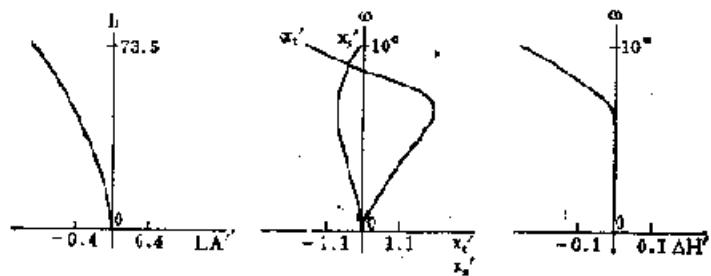
F. A. = 20°

Lp₁ = 0



序号	r	d	n _e	v _e	序号	r	d	n _e	v _e
1	277.97	16.59	1.59424	58.02	8	27.21	13.19		
2	∞	0.34			9	64.25	7.45	1.58779	36.75
3	111.65	35.91	1.64129	55.15 ¹⁰	10	26.67	34.04	1.84035	42.04
4	-274.08	3.62	1.67764	31.97 ¹¹	11	∞	1.20		
5	212.75	1.19			12	∞	5.11	1.50207	61.21
6	57.26	36.34	1.64514	57.70 ¹³	13	∞			
7	274.08	13.79	1.72734	29.03					

	ΣS ₁	ΣS ₂	ΣS ₃	ΣS ₄	ΣS ₅	HI	QP(10)
	-1.2	0.050	0.22	-0.54	0.067	18	-1.4%
h 或 w %	LA'	ΔH'	x _{4'}	x ₄	x _{4'} -x ₄	K _{T1}	K _{T0.7}
100	-0.85	-0.26	-0.16	-0.001	-0.16	5.5	3.7
70	-0.53	-0.0079	0.20	-0.077	0.278	7.9	0.59



编号: 01-00-004

透 镜 系 统

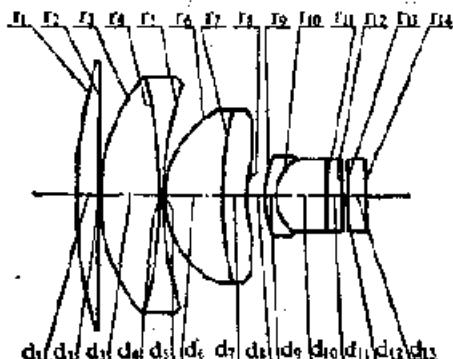
E. F. L = 100

B. F. L =

FNo. = 0.61

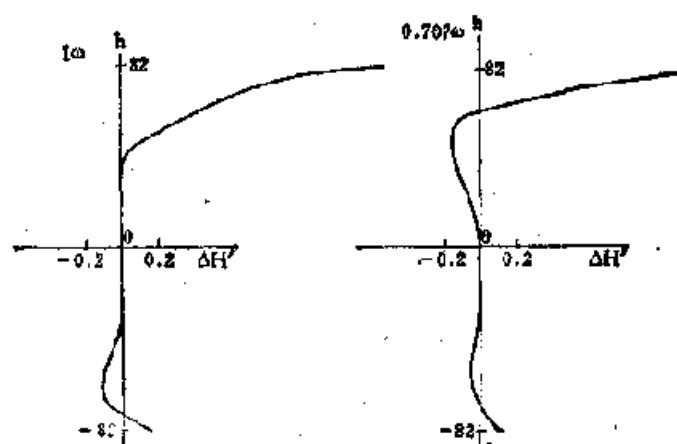
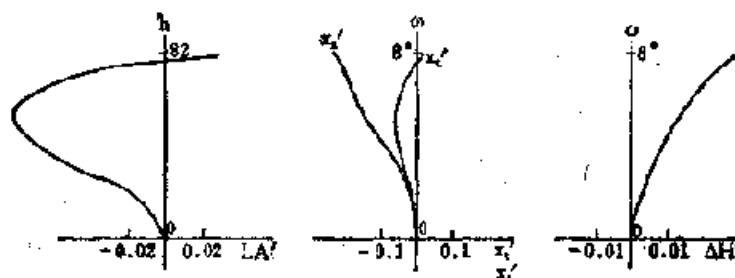
F. A. = 16°

Lp' = 0



序号	r	d	n _o	v _o	序号	r	d	n _o	v _o
1	245.12	17.85	1.59424	58.02	8	29.80	13.05		
2	4460.43	0.37			9	65.97	8.12	1.62058	36.37
3	112.04	37.88	1.66152	50.59	10	29.47	20.17	1.92765	21.34
4	-456.43	3.51	1.73430	28.19	11	∞	8.13	1.79190	25.55
5	213.49	0.37			12	∞		1.61	
6	60.17	38.66	1.64304	59.85	13	∞	11.59	1.50207	61.21
7	294.69	13.69	1.76859	26.31	14	∞			

	ΣS ₁	ΣS ₂	ΣS ₃	ΣS ₄	ΣS ₅	HI	QP(iω)
	-0.52	-0.42	0.060	-0.54	0.088	14	0.21%
h 或 φ%	LA'	ΔH'	x _t '	x _t	x _t ' - x _t	K _{T1}	K _{T0.7}
100	0.028	0.03	0.0078	-0.23	0.24	7.8	0.090
70	-0.08	0.014	-0.069	-0.15	0.08	1.6	-0.094



编号: 01-00-005

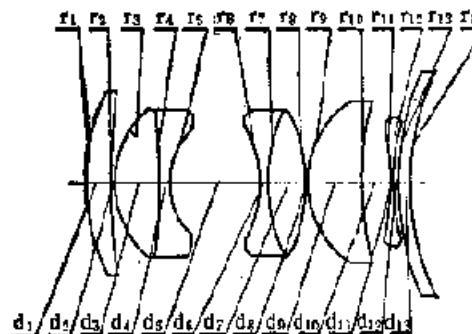
用于电子影象管的透镜系统

E. F. L = 100.0

B. F. L =

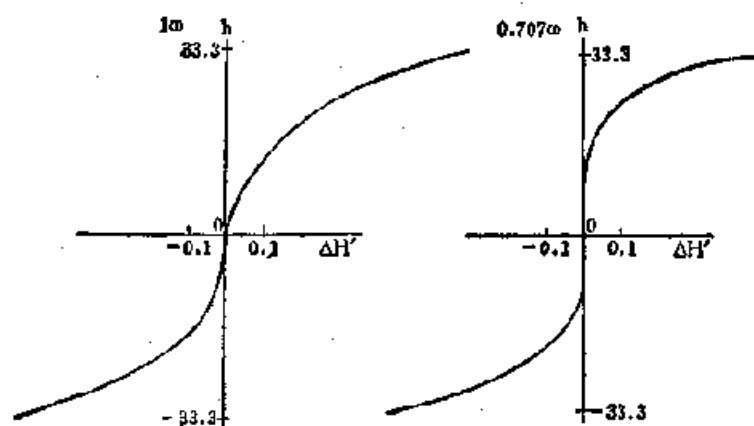
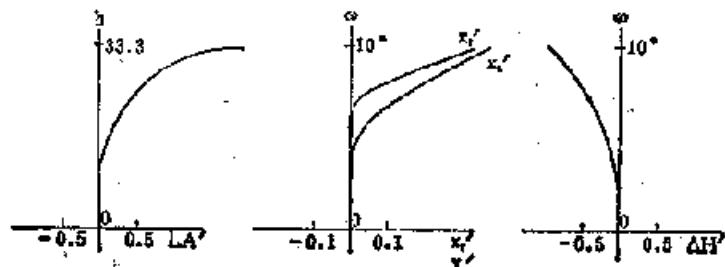
FNo. = 1.5

F. A. = 20°



序号	r	d	n	v	序号	r	d	n	v
1	73.0	14.0	1.694	54.6	8	-58.0	0.3		
2	410.0	0.3			9	41.1	23.8	1.673	47.0
3	44.4	17.9	1.694	54.6	10	132.3	12.55		
4	-170.0	4.8	1.813	25.3	11	-239.0	1.8	1.813	25.3
5	30.3	39.5			12	68.8	3.6		
6	-59.3	4.3	1.678	32.0	13	111.5	5.4	1.512	63.1
7	66.6	18.2	1.694	54.6	14	106.3			

	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	HI	QP (1.0)
	0.062	-0.050	-0.042	0.084	-0.56	18.21	-5.5%
h 倍数 %	LA'	$\Delta H'$	x_t'	x_s'	$x_t' - x_s'$	K _t	K _{T(t)}
100	2.03	-1.01	0.35	0.38	-0.028	-0.028	0.039
70	0.47	-0.33	0.033	0.14	-0.11	-0.21	-0.455



编号: 01-00-006

共轴光学系统的改进

E.F.L = 100.0

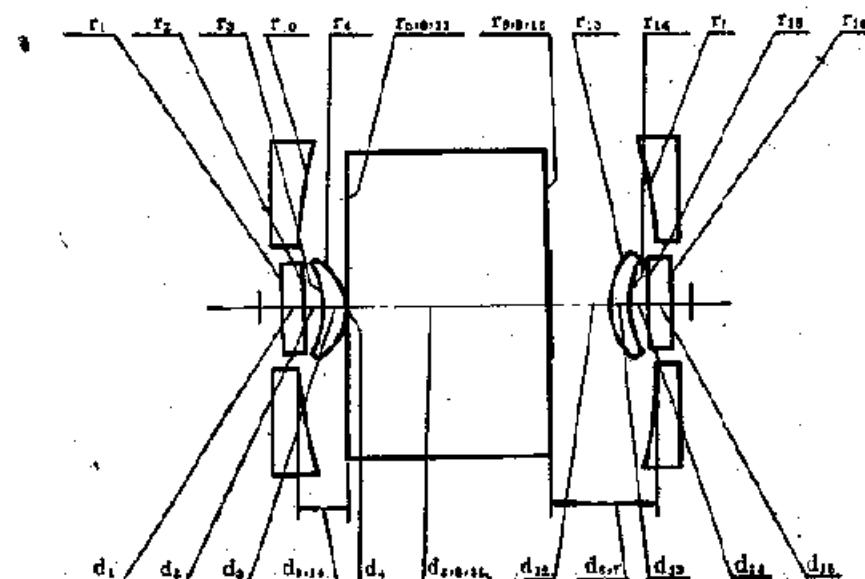
B. F. L.

$$FNo = 0.7$$

F A

物点 = 5.48

最高点 = 5,48



序号	r	d	ra	v
1	∞	10.40	1.503	51.0
2	∞	6.58		
3	-55.04	11.00	1.540	56.0
4	-27.52	0.76		
5	∞	93.33	1.603	38.0
6	∞	55.08		
7	-308.94	-53.08	-1.0	
8	∞	-93.33	-1.603	38.0
9	∞	-28.87	-1.0	
10	308.94	23.87		
11	∞	93.33	1.603	38.0
12	∞	29.97		
13	27.52	11.00	1.540	56.0
14	55.04	6.58		
15	∞	10.40	1.503	51.0
16	∞			

✓ 编号: 01-00-007

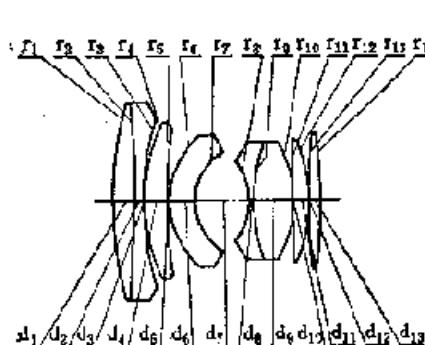
摄 影 物 镜

E. F. L = 1.0

B. F. L = 0.675

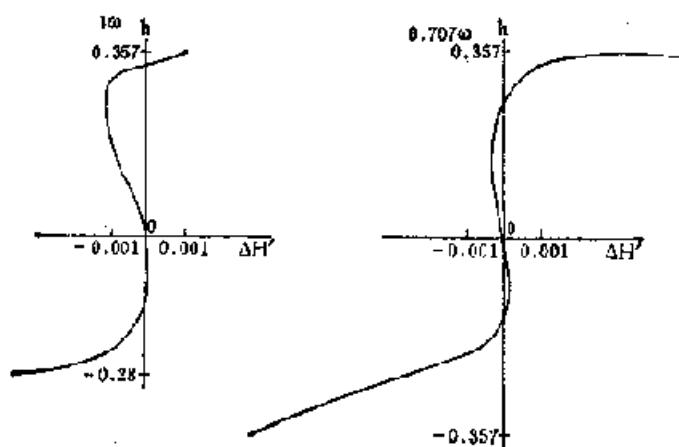
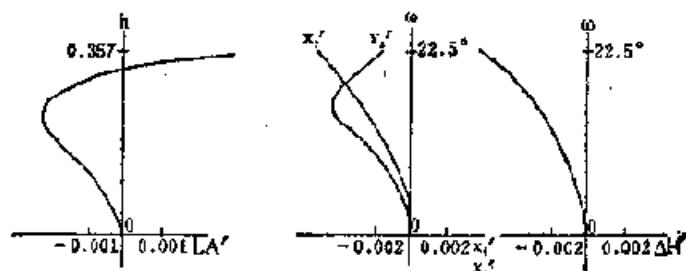
FNo. = 1.4

F. A. = $\pm 22.5^\circ$



序号	r	d	n _o	v _o	序号	r	d	n _o	v _o
1	2.11619	0.12629	1.78869	43.53	8	-0.39067	0.02870	1.81262	25.28
2	-6.13873	0.05741	1.72732	29.07	9	1.20731	0.21049	1.78869	43.53
3	1.30647	0.00191			10	-0.67409	0.00191		
4	0.93180	0.12246	1.78869	43.53	11	-3.18542	0.06889	1.78869	43.53
5	3.81787	0.00191			12	-0.87970	0.00096		
6	0.46701	0.15308	1.81262	25.28	13	3.03255	0.06697	1.78869	43.53
7	0.33391	0.26320			14	2.20972			

	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	H1	QF(10)
	-0.0026	0.00118	0.00059	-0.0044	-0.0046	0.41	-1.4%
h 或 m%	LA'	$\Delta H'$	x_t'	x_t'	$x_t' - x_s'$	K ₁₁	K _{10.7}
100	0.0080	-0.0060	-0.0049	-0.00169	-0.0032	-0.014	-0.0025
70	-0.0023	-0.0025	-0.0026	-0.0045	-0.0019	-0.011	-0.0011



编号: 01-00-008

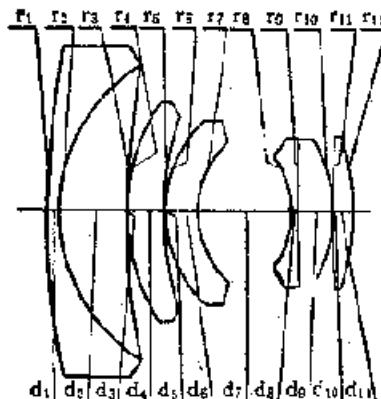
摄 影 物 镜

E.F. L = 1.0

B.F. L = 0.675

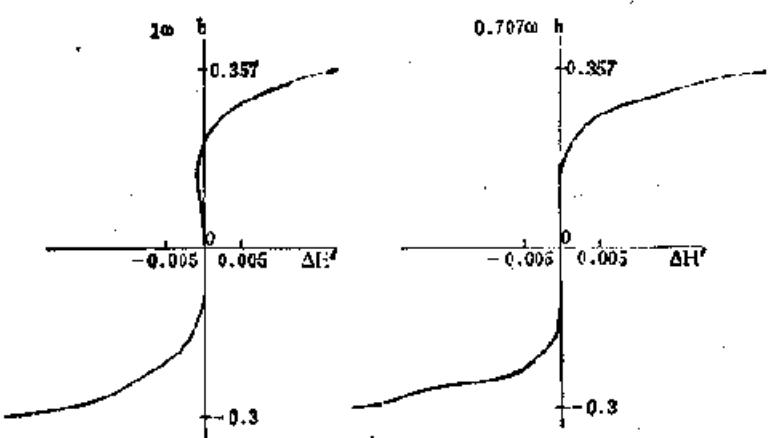
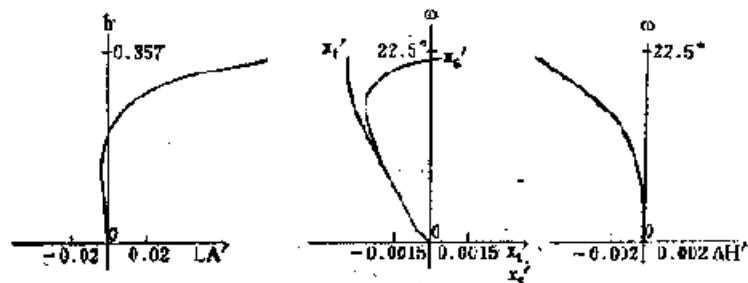
FNo. = 1.4

F.A. = $\pm 22.5^\circ$



序号	r	d	n _o	v _o	序号	r	d	n _o	v _o
1	2.28020	0.03454	1.55150	45.17	7	0.25407	0.26861		
2	0.47817	0.19570	1.62287	60.06	8	-0.26903	0.02878	1.78846	26.78
3	2.15240	0.00192			9	5.17978	0.09977	1.78869	43.53
4	0.62001	0.10467	1.66151	60.69	10	-0.35881	0.00006		
5	1.21065	0.00192			11	8.20741	0.05372	1.78869	43.53
6	0.34612	0.09689	1.72732	29.07	12	0.77488			

	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	HI	QP(10)
	-0.0059	0.0013	0.000021	-0.0026	-0.0025	0.41	-1.4%
h & w %	LA'	$\Delta H'$	x'_e	x'_i	$x'_i - x'_e$	K_{T1}	$K_{T1,7}$
100	0.089	-0.0061	-0.0036	0.000037	-0.0036	-0.30	-0.013
70	0.0047	-0.0017	-0.0030	-0.0028	-0.00024	-0.23	-0.0056



1108399

编号: 01-00-009

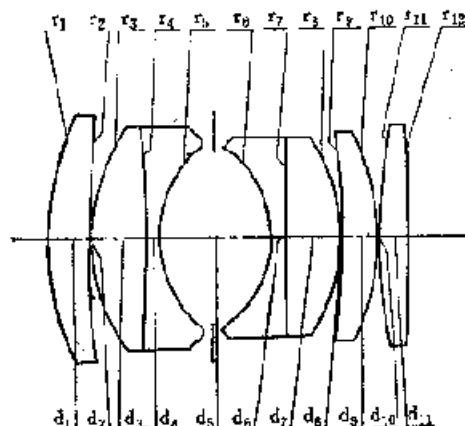
双 高 斯 型

E. F. L=100

B. F. L=71.08

FNo. = 1.4

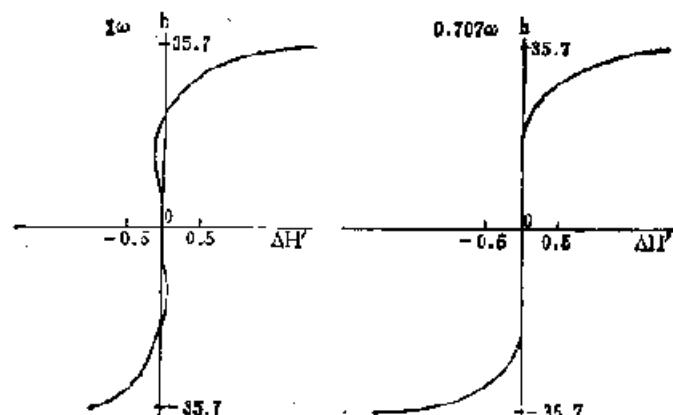
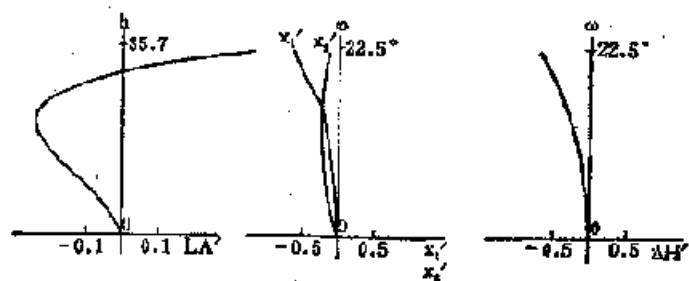
F. A. = $\pm 22.5^\circ$



序号	r	d	n	v	序号	r	d	n	v
1	77.95	11.55	1.72342	37.9	7	577.29	15.18	1.734	51.3
2	263.05	0.19			8	46.53	0.35		
3	52.07	15.73	1.72342	37.9	9	216.04	9.61	1.66672	48.3
4	-327.13	3.46	1.71736	29.5	10	-61.27	0.19		
5	31.13	31.67*			11	156.14	7.04	1.66672	48.3
6	-29.94	3.66	1.71736	29.5	12	-657.55			

$$31.67^* = 15.21 + 16.46$$

	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	HJ	QP(1m)
	-0.311	0.327	0.070	-0.263	-0.477	41.432	-1.675
h 或 ϕ %	LA'	$\Delta H'$	x_t'	x_s'	$x_t' - x_s'$	K_{T1}	$K_{T0.7}$
100	0.372	-0.693	-0.681	-0.092	-0.588	0.515	0.019
70	-0.244	-0.255	-0.179	-0.237	-0.067	-0.041	0.011



编号: 01-00-010

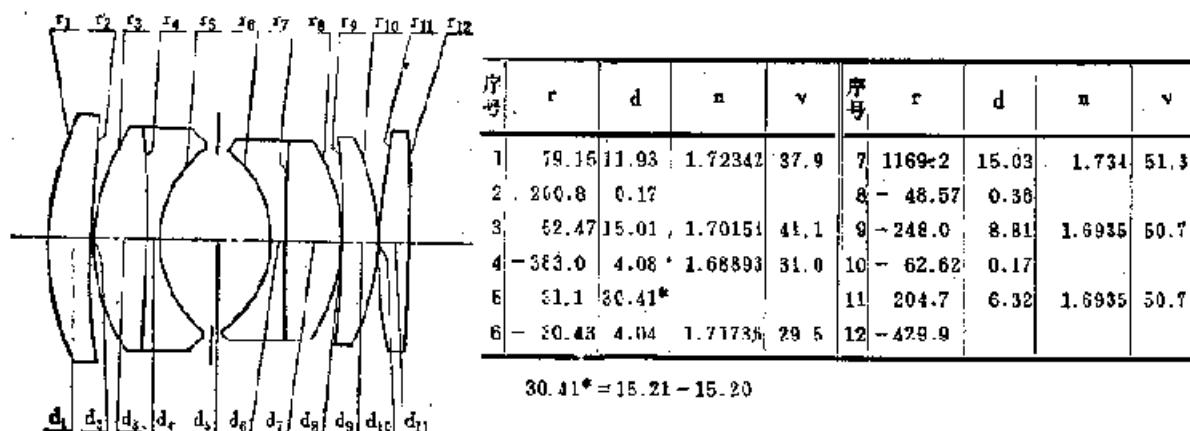
双 高 斯 型

E. F. L=100

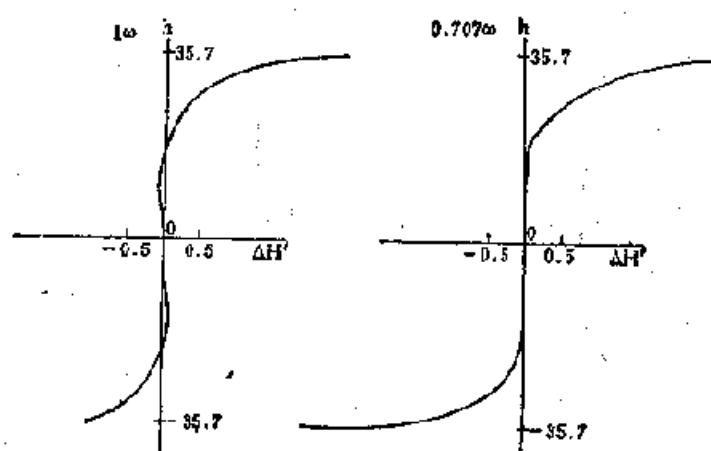
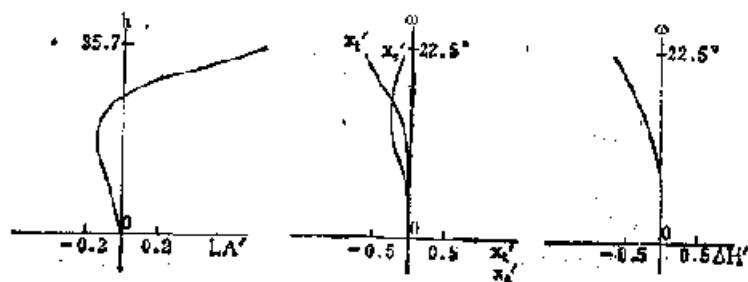
B. F. L=79.42

FNo. = 1.4

F. A. = $\pm 22.5^\circ$



	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	H1	QP(1 ω)
	-0.262	0.103	0.045	-0.239	-0.498	41.722	-1.731
h 或 ω %	LA'	$\Delta H'$	x_1'	x_6'	$x_6' - x_1'$	K_{T1}'	$K_{T0.7}'$
100	0.837	-0.722	-0.654	0.007	-0.662	0.55	0.080
70	-0.075	-0.268	-0.186	-0.199	0.013	-0.008	0.100



编号: 01-00-011

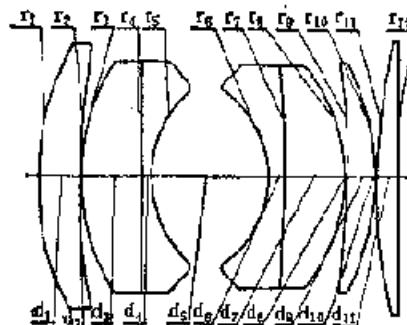
大孔径长工作距离摄影镜头

E.F.L=1

B.F.L=0.75

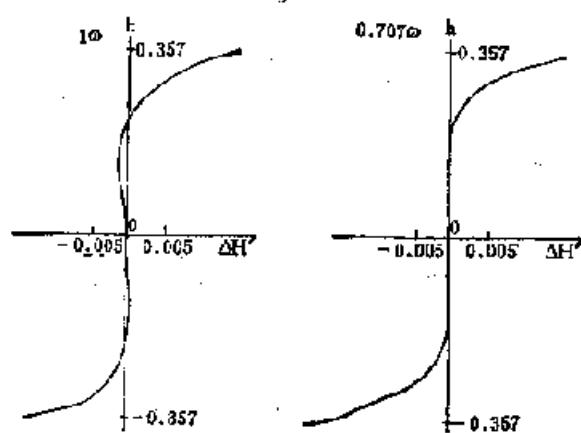
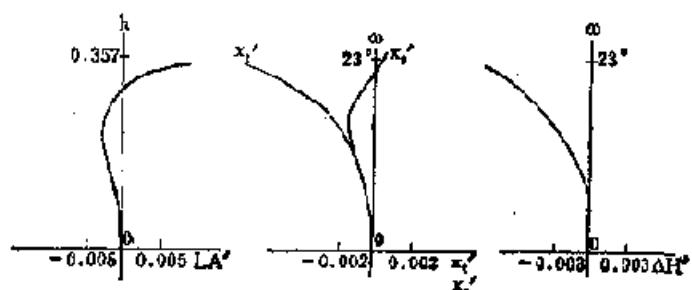
FNo.=1.4

F.A.=+23°



序号	r	d	n	v	序号	r	d	n	v
1	0.7655	0.1260	1.66446	35.9	7	-3.8760	0.1647	1.71300	53.9
2	2.6053	0.0019			8	-0.4535	0.0039		
3	0.5735	0.1686	1.69350	53.4	9	-2.3256	0.0833	1.67790	55.5
4	12.4041	0.0329	1.64831	33.8	10	-0.9357	0.0019		
5	0.3249	0.3266			11	1.5504	0.0620	1.73300	53.9
6	-0.2892	0.0407	1.69895	30.1	12	-15.8774			

	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	HI	QP(1ω)
	-0.0036	0.00013	0.00052	-0.0021	-0.0057	0.42	-2%
b 或 ω%	LA'	ΔL'	x_t'	x_s'	$x_t' - x_s'$	K_{T1}	$K_{T0.7}$
100	0.0083	-0.0085	-0.0073	0.00079	-0.0080	0.0019	0.000074
70	-0.0027	-0.0031	-0.0020	-0.00159	-0.00040	-0.0073	-0.00061



编号: 01-00-012

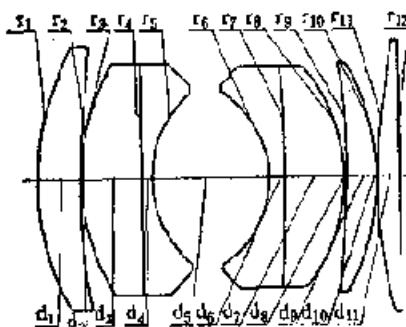
大孔径长工作截距摄影镜头

E.F.L=1

B.F.L=0.7442

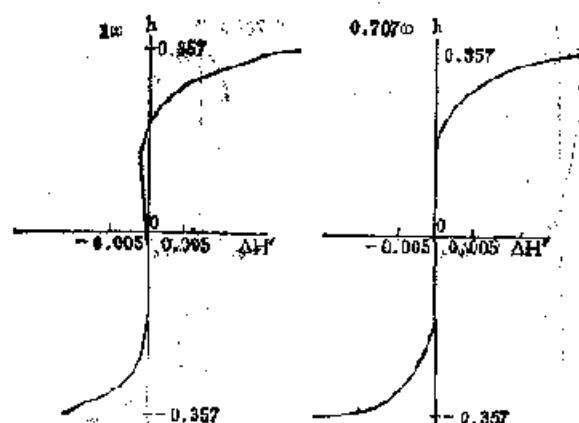
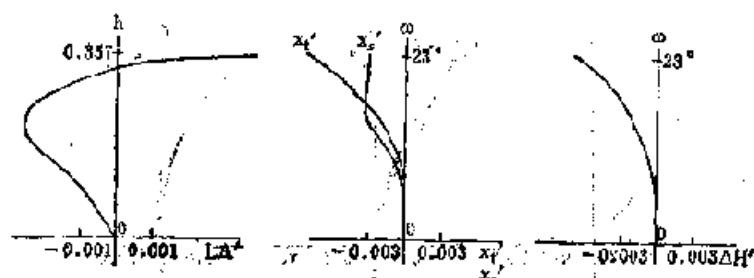
FNo. = 1.4

F.A. = $\pm 23^\circ$



序号	r	d	n	v	序号	r	d	n	v
1	0.8140	0.0930	1.7495	35.0	7	-8.5727	0.1647	1.6779	53.5
2	2.0512	0.0019			8	-0.4953	0.0058		
3	0.5620	0.1202	1.744	44.9	9	-2.3256	0.0969	1.713	53.9
4	2.7132	0.0659	1.69895	30.1	10	-0.6610	0.0019		
5	0.3841	0.3333			11	1.5891	0.0620	1.713	53.9
6	-0.3227	0.0465	1.71736	29.5	12	-8.9028			

	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	HI	QP(1 ω)
	-0.0031	0.00025	0.00076	-0.0032	-0.0050	0.42	-1.5%
$h \text{ as } \omega \%$	LA'	$\Delta H'$	x_4'	x_6'	$x_4' - x_6'$	K_{T1}	$K_{T0.7}$
100	0.0043	-0.0067	-0.0084	-0.0031	-0.0053	0.0056	0.00011
70	-0.0027	-0.0026	-0.0036	-0.0036	0.00089	0.0016	0.00025



编号: 01-00-013

摄影或电影摄影物镜

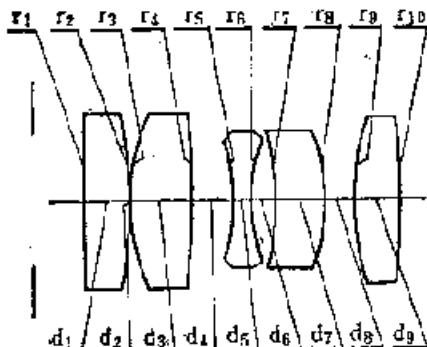
E. F. L = 100

B. F. L = 44.7

FNo. = 1.8

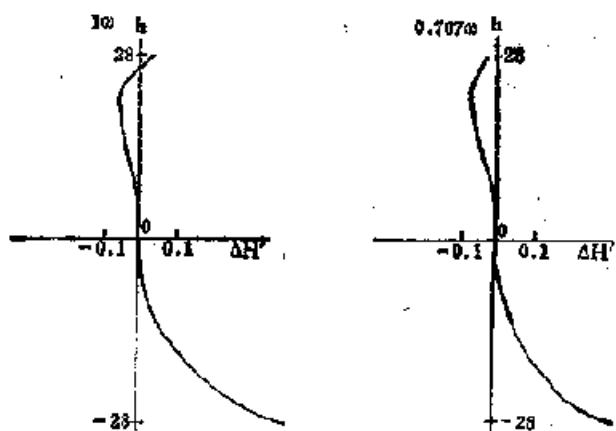
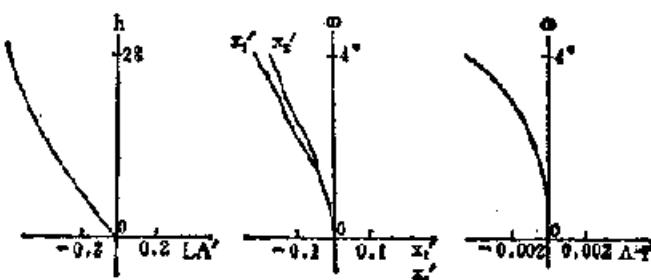
F. A. = 8°

Lp₁ = -18.0



序号	r	d	n	v	序号	r	d	n	v
		18.0*			6	66.61	7.5		
1	∞	16.1	1.62	58.0	7	-159.36	19.6	1.65	57.0
2	230.34	1.5			8	-62.21	11.7		
3	81.00	23.4	1.70	56.0	9	124.61	17.7	1.71	54.0
4	-368.11	14.6			10	-301.34			
5	-82.12	8.3	1.76	28.0					

	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	HI	QP(1ω)
	-0.16	0.0073	-0.0032	-0.025	-0.0025	7.0	-0.065%
h 或 ω %	LA'	ΔH'	x_c'	x_s'	$x_s' - x_c'$	K ₁₁	K _{11,7}
100	-0.61	-0.0045	-0.22	-0.18	-0.040	0.20	0.055
70	-0.43	-0.0016	-0.11	0.09	-0.020	0.13	0.036



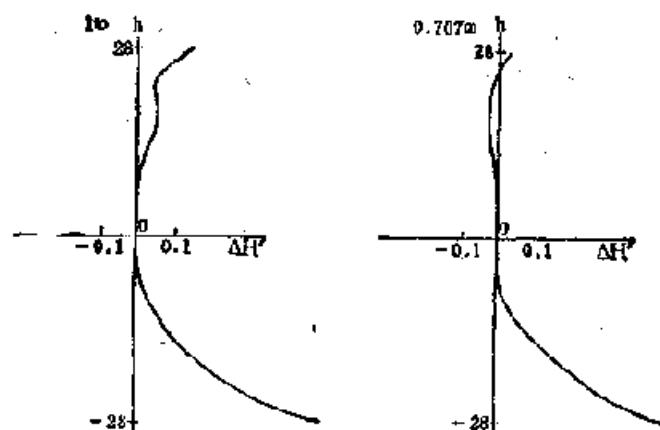
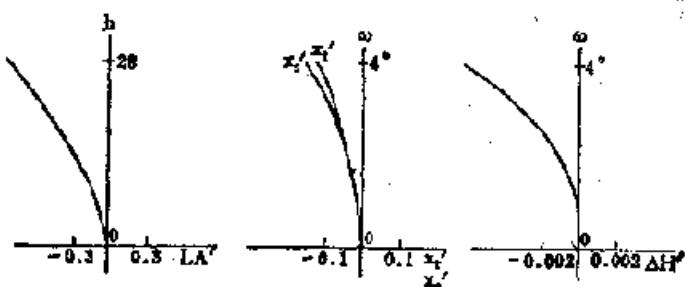
编号: 01-00-014

摄影或电影摄影物镜

E. F. L = 100 B. F. L = 46.2 FNo. = 1.3 F. A. = 8° $L_p' = -19.1$

序号	r	d	n	v	序号	r	d	n	v
-	19.1 ²				6	96.83	7.6		
1	∞	15.3	1.62	58.0	7	-161.47	19.9	1.66	57.0
2	-233.41	1.5			8	-70.75	1.5		
3	91.72	23.7	1.73	56.0	9	149.80	38.2	1.71	54.0
4	-245.34	14.1			10	-134.70			
5	-83.21	8.4	1.76	28.0					

	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	H1	QP (1%)
	-0.18	0.029	0.0013	-0.025	-0.0036	7	-0.093%
h 或 10%	LA'	$\Delta H'$	x_t'	x_s	$x_t' - x_s$	K_{t1}	$K_{t0,7}$
100	-0.82	-0.0065	-0.13	-0.15	0.019	0.35	0.12
70	-0.52	-0.0023	-0.057	-0.077	0.0092	0.24	0.084



编号: 01-00-015

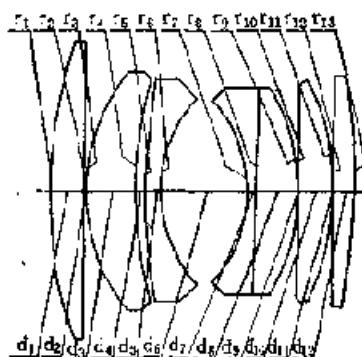
高斯型摄影物镜

E.F. L=1.0

B.F. L=0.6959

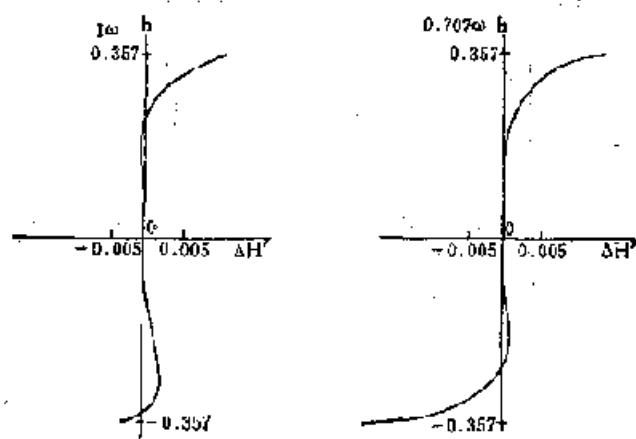
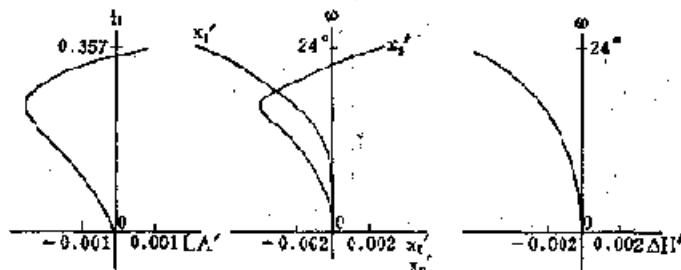
FNo. = 1.4

F. A. = $\pm 24^\circ$



序号	r	d	n _g	v	序号	r	d	n _g	v
1	1.13720	0.1044	1.72055	47.69	8	7.84738	0.1149	1.73868	43.62
2	-76.27345	0.0019			9	-0.57576	0.0010		
3	0.51319	0.1369	1.78268	43.62	10	-12.43738	0.0829	1.74795	44.49
4	0.98070	0.0306			11	-0.73012	0.0010		
5	1.75857	0.0440	1.72313	29.30	12	0.06032	0.0565	1.74795	44.49
6	0.35550	0.2346			13	-1.73148			
7	-0.36599	0.0287	1.79180	25.00					

	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	H1	QP(1m)
	-0.0028	0.00045	0.0011	-0.0050	-0.0044	0.44	-1.3%
h 或 ω %	I.A'	$\Delta H'$	x_t'	x_t	$x_t - x_0$	K _{t1}	K _{t1,7}
100	0.00097	-0.0060	-0.0077	0.0028	-0.010	0.0052	0.0020
70	-0.0025	-0.0025	-0.0020	-0.0040	0.00199	-0.0027	0.00062



编号: 01-00-016

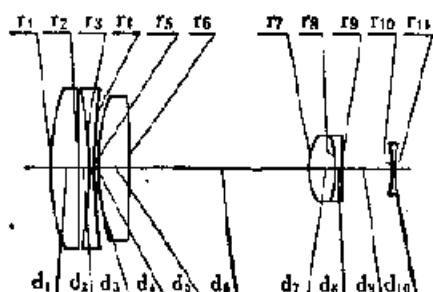
改进的珀兹伐物镜系统

E. F. L = 100

B. F. L =

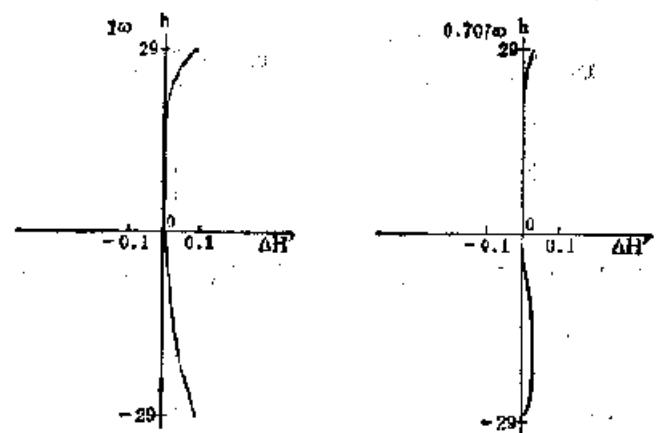
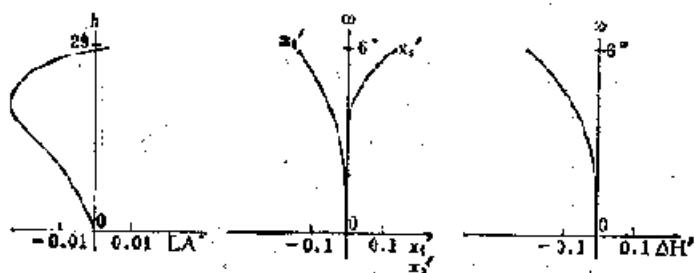
FNo. = 1.7

F. A. = 12°



序号	r	d	n	v	序号	r	d	n	v
1	100.2	13.4	1.605	60.4	7	35.65	10.3	1.625	56.5
2	4070	4.26			8	-57.7	2.71	1.702	38.3
3	-196.2	4.57	1.792	25.9	9	201.5	21.8		
4	498.5	1.3			10	-72.2	1.55	1.813	25.2
5	112.0	13.7	1.625	56.6	11	64.7			
6	3190	80.5							

	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	HI	QP(1ω)
	-0.015	-0.00026	-0.0117	0.0095	-0.11	10.63	-1.0%
h 或 ω %	LA'	$\Delta H'$	x_t'	x_t	$x_t' - x_t$	K_{Tt}	$K_{Tt, \omega}$
100	0.0030	-0.20	-0.13	0.013	-0.14	0.077	0.037
70	-0.024	-0.071	-0.071	0.000029	-0.071	0.015	0.0096



编号: 01-00-017

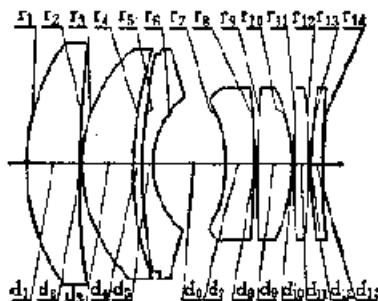
摄 影 镜 头

E. F. L=100.0

B. F. L=

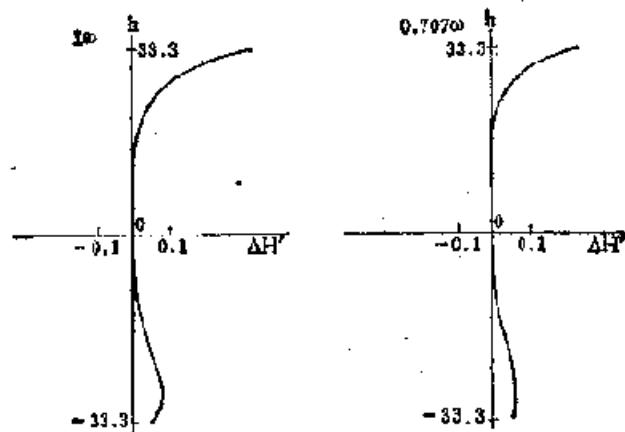
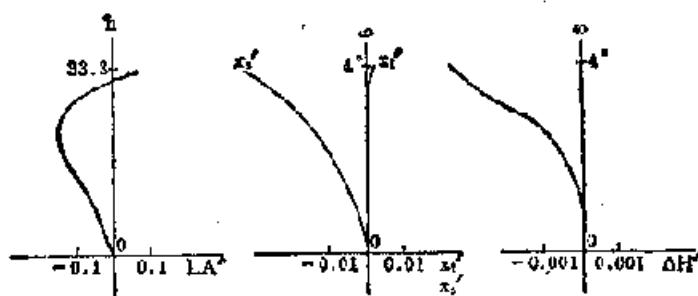
FNo. = 1.5

F. A. = 8°



序号	r	d	n _d	v _d	序号	r	d	n _d	v _d
1	61.02	15.2	1.677955.5		8	-252.98	1.1		
2	331.2	0.07			9	482.12	9.8	1.677955.5	
3	42.13	14.1	1.677955.5		10	-52.31	0.1		
4	94.96	2.8			11	260.23	4.8	1.667641.9	
5	186.14	3.4	1.699030.1		12	-128.78	0.67		
6	25.03	20.4			13	134.14	4.0	1.666833.1	
7	-37.40	7.1	1.721529.3		14	316.45			

	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	III	QP(1°)
	-0.139	0.019	0.0039	-0.011	0.0023	7.0	-0.052%
h 或 φ%	LA'	ΔH'	x _t '	x _s '	x _t ' - x _s '	K _{T1} '	K _{T0.7} '
100	0.065	-0.0036	0.00139	-0.033	0.034	0.20	0.055
70	-0.15	-0.0012	0.00069	-0.0169	0.017	0.14	0.039



编号: 01-00-018

光 学 物 镜

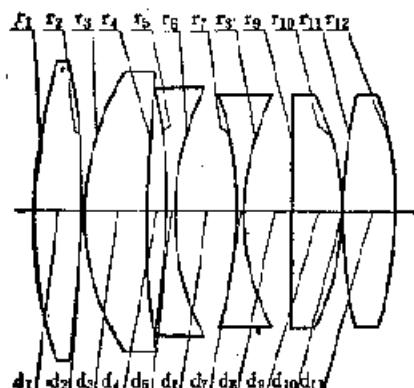
E. F. L = 100

B. F. L = 53.32

FNo. = 1.2

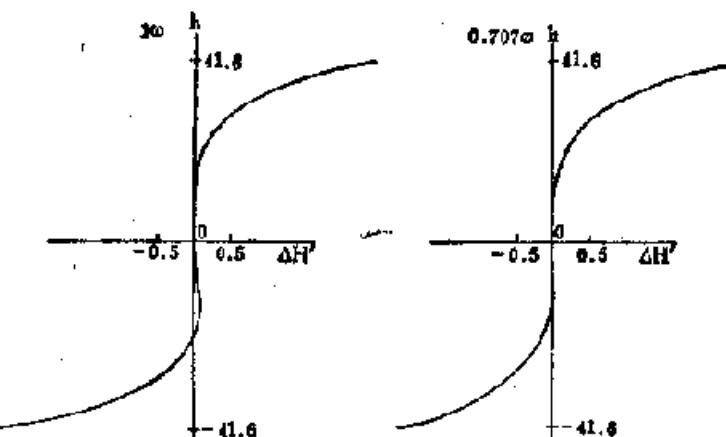
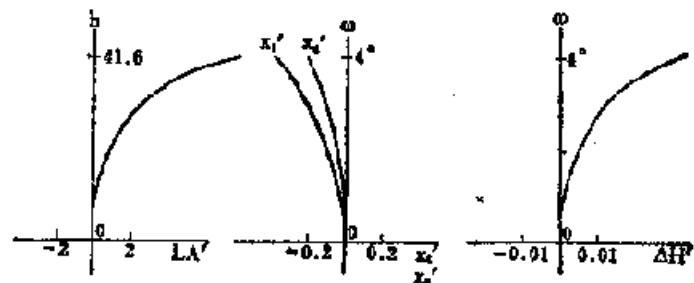
F. A. = 6°

Lp' = 7



序号	r	d	nD	v	序号	r	d	nD	v
1	140.00	18.32	1.6906	54.00	7	-107.09	2.82	1.6985	30.2
2	-246.94	0.35			8	73.62	13.39		
3	70.45	18.32	1.6906	54.00	9	462.87	14.09	1.6909	54.8
4	281.81	5.78			10	-73.27	0.35		
5	-176.13	2.82	1.6985	30.2	11	160.00	14.09	1.6909	54.8
6	75.81	17.61			12	-103.99			

	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	H1	QP(1m)
	0.73	0.051	-0.026	-0.039	0.026	7.4	0.46%
h 或 m%	LA'	$\Delta H'$	x_t'	x_s'	$x_t' - x_s'$	K ₁₁	K _{10.7}
100	8.7	0.03	-0.40	-0.21	-0.18	-0.44	0.065
70	2.1	0.012	-0.19	-0.10	-0.09	-0.34	0.027



编号: 01-00-019

光 物 镜

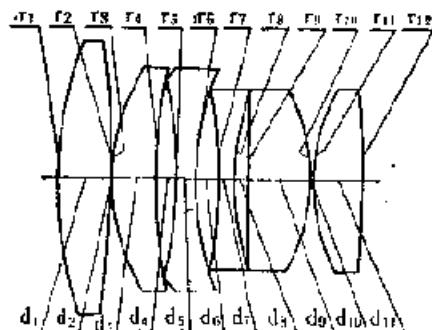
E. F. L=100

B. F. L=54.14

FNo. = 0.95

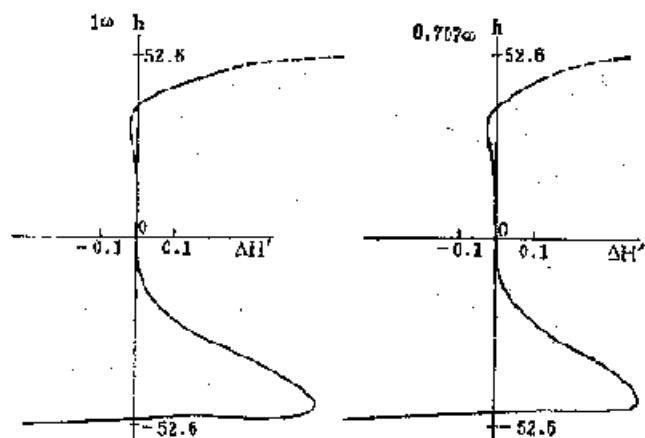
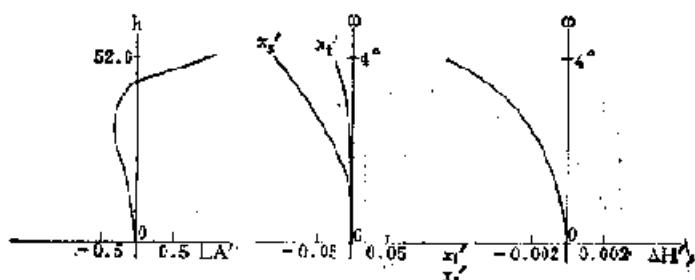
F. A. = 8°

Lp_s' = 2.5



序号	r	d	n _D	v	序号	r	d	n _D	v
1	210.63	21.91	1.7439	44.9	7	-302.07	8.80	1.7877	25.5
2	-585.34	0.91			8	125.41	5.61		
3	91.74	21.91	1.7129	53.8	9	572.45	28.05	1.6966	55.8
4	368.19	8.49			10	-66.44	0.91		
5	-200.17	8.80	1.7877	25.5	11	86.44	20.17	1.6966	55.8
6	122.07	10.24			12	-505.57			

	ΣS ₁	ΣS ₂	ΣS ₃	ΣS ₄	ΣS ₅	HT	QP(1ω)
	-0.56	0.037	0.024	-0.086	-0.0070	7	-0.097%
b 或 ω %	LA'	ΔH'	x _t '	x _t '	x _t ' - x _s '	K _{T1}	K _{T0.7}
100	1.1	-0.0068	-0.022	-0.109	0.087	0.26	0.19
70	-0.34	-0.0024	-0.011	-0.055	0.044	0.19	0.13



编号: 01-00-020

高速摄影机物镜

E. F. L = 100

B. F. L = 60.64

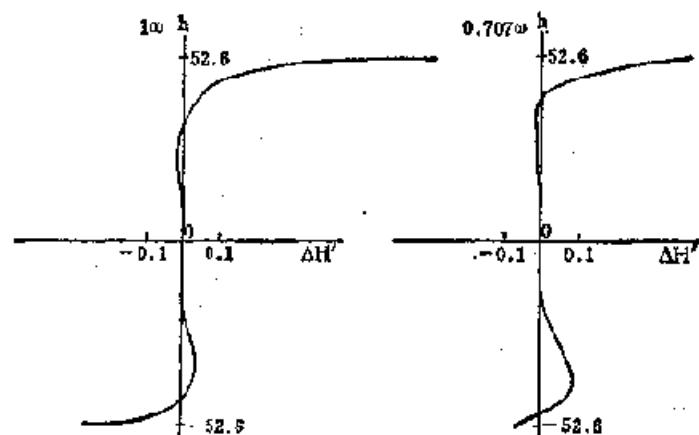
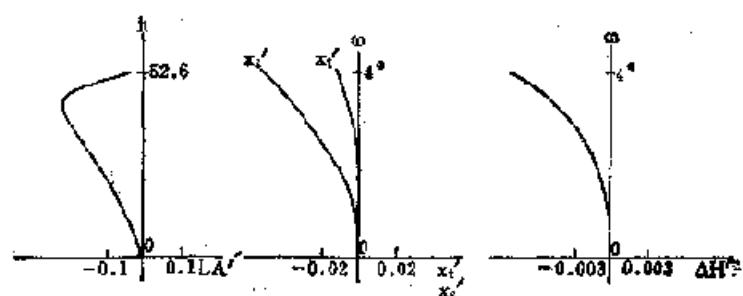
FNo. = 0.95

F. A. = 8°



序号	r	d	n _g	v _g	序号	r	d	n _g	v _g
1	159.55	16.35	1.62287	60.1	9	-39.25	4.48	1.76846	26.8
2	3663.75	0.19			10	478.43	28.42	1.71615	53.7
3	229.00	10.32	1.60104	57.1	11	-57.62	0.19		
4	687.77	6.23			12	317.71	17.52	1.59142	61.0
5	∞	8.37	1.58482	40.6	13	-116.06	0.19		
6	597.26	0.19			14	94.69	16.53	1.69400	54.6
7	57.82	20.05	1.79180	25.9	15	509.65			
8	39.05	36.21							

	ΣS ₁	ΣS ₂	ΣS ₃	ΣS ₄	ΣS ₅	HI	QP(1ω)
	-0.35	0.023	0.011	-0.042	-0.0086	7.0	-0.11%
h 或 ω %	LA'	ΔH'	x _t '	x _s '	x _t ' - x _s '	K _{T1}	K _{T0.7}
100	-0.048	-0.0082	-0.013	-0.034	0.040	0.22	0.041
70	-0.21	-0.0029	-0.0065	-0.027	0.020	0.17	0.028



编号: 01-00-021

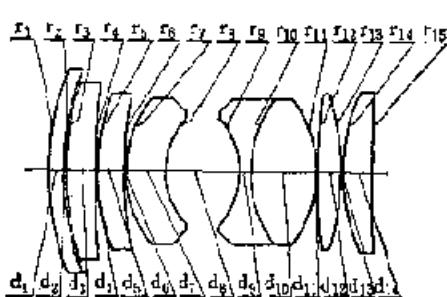
高速摄影机物镜

E. F. L = 100

B. F. L = 57.28

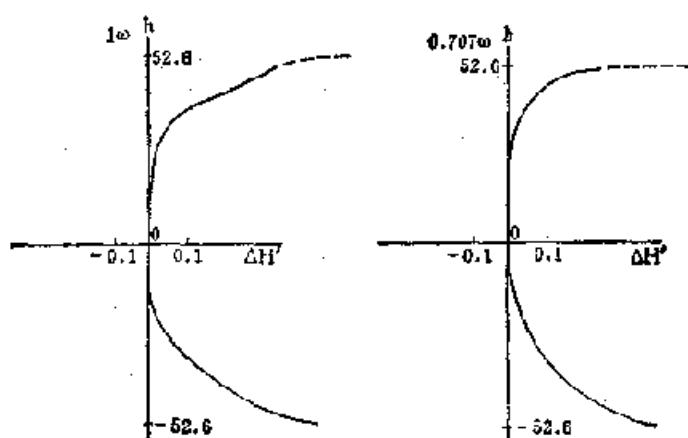
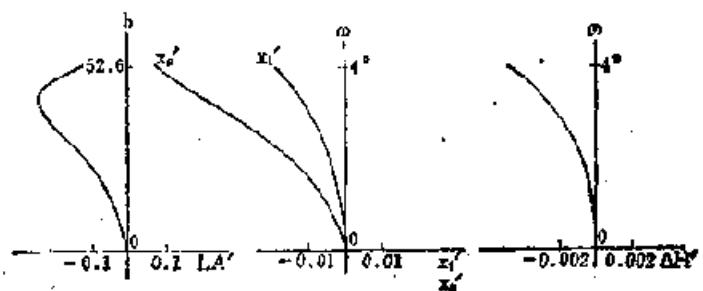
FNo. = 0.95

F. A. = 8°



序号	r	d	n _g	v _g	序号	r	d	n _g	v _g
1	142.70	8.72	1.67245	44.7	9	-44.42	6.10	1.74703	27.5
2	130.17	0.44			10	71.19	37.93	1.73692	50.8
3	139.32	17.44	1.62541	56.6	11	-71.19	0.44		
4	540.20	0.44			12	399.00	12.03	1.71615	53.7
5	114.51	15.69	1.62287	60.1	13	-149.56	0.44		
6	282.81	0.44			14	94.64	15.69	1.71615	53.7
7	66.70	20.92	1.74703	27.5	15	649.26			
8	39.28	40.54							

	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	HI	QP(1 ∞)
	-0.26	0.034	0.010	-0.042	-0.0052	7.0	-0.070%
h 或 0%	LA'	$\Delta H'$	x_t'	x_s'	$x_t' - x_s'$	K _{T1}	K _{T0.7}
100	-0.15	-0.0049	-0.018	0.057	0.038	0.71	0.11
70	-0.21	-0.0017	-0.0050	0.028	0.019	0.49	0.085



编号: 01-00-022

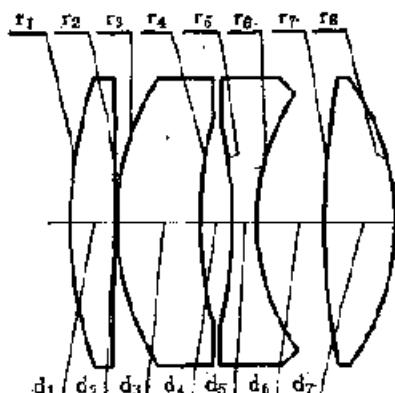
用于电影摄影的大孔径物镜

E. F. L = 100

B. F. L =

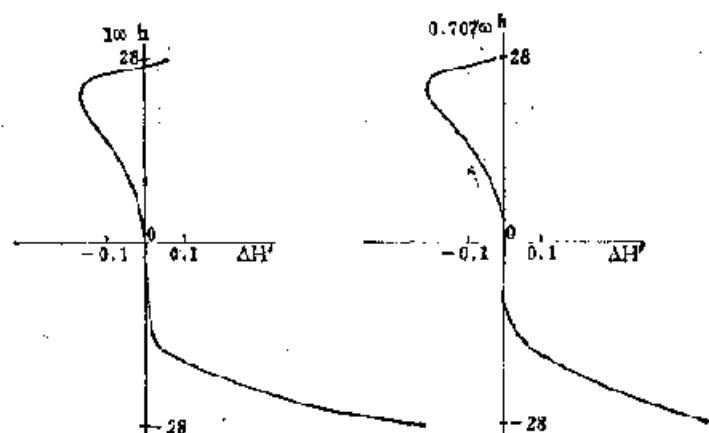
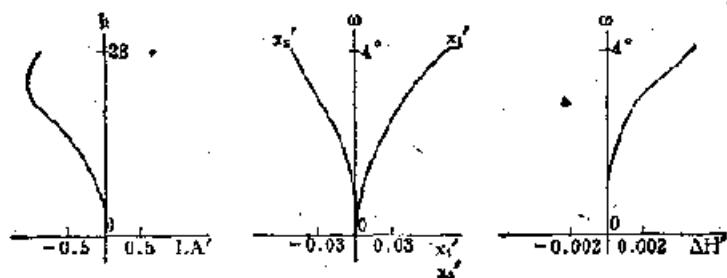
FNo. = 1.8

F. A. = 5°



序号	r	d	n _d	v	序号	r	d	n _d	v
1	89.79	8.95	1.61375	56.3	5	-97.66	5.18	1.71736	29.5
2	-521.30	0.69			6	42.24	12.39		
3	51.25	15.48	1.62041	60.3	7	173.49	12.59	1.62041	60.3
4	96.35	5.51			8	-45.47			

	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	HI	QP (1 ω)
	-0.26	-0.036	0.010	-0.018	0.0027	7.0	0.071%
h 或 ω %	LA'	$\Delta H'$	x_1'	x_2'	$x_1' - x_2'$	K _{T1}	K _{T3,7}
100	-0.93	0.0049	0.079	-0.052	0.13	0.42	0.01
70	-0.89	0.0017	0.039	-0.026	0.066	0.29	0.0087



编号: 01-00-023

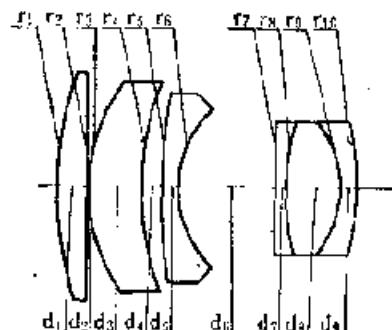
摄 影 物 镜

E. F. L = 1.0

B. F. L = 0.501

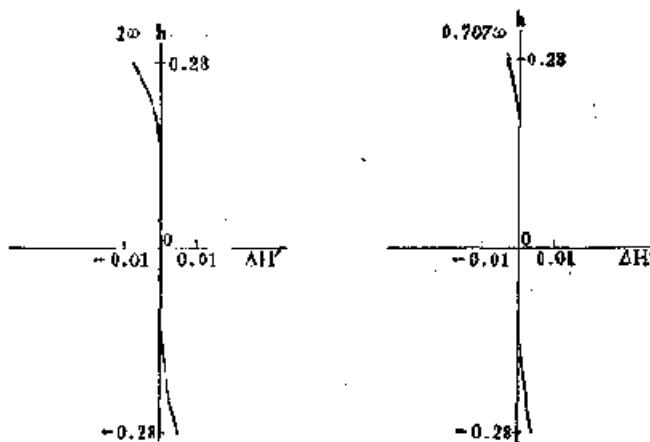
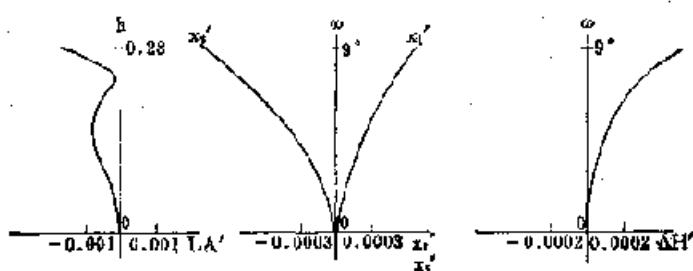
FNo. = 1.8

F. A. = 18°



序号	c	d	n _d	v	序号	c	d	n _d	v
1	0.72	0.0706	1.6031	65.0	6	0.2355	0.2134		
2	∞	0.002			7	12.51	0.0222	1.57492	41.5
3	0.3782	0.1275	1.75496	53.4	8	0.5492	0.1242	1.68609	53.5
4	0.6996	0.0456			9	-0.2136	0.0315	1.62039	60.35
5	1.733	0.0395	1.71749	29.55	10	-0.8032			

	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	HI	QP(1 ω)
	-0.00086	-0.000080	0.00016	-0.00039	0.00001	0.16	0.34%
h 或 ω %	LA'	$\Delta H'$	x_e	x_e'	$x_e' - x_e$	K_{T1}	$K_{T0.7}$
100	-0.0016	0.00054	0.000648	-0.0011	0.0017	-0.0018	0.000057
70	-0.00071	0.00019	0.00034	-0.00064	0.00099	-0.00048	0.000099



编号: 01-00-024

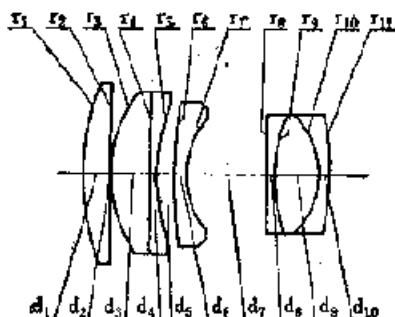
摄 影 物 镜

E. F. L = 1.0

B. F. L = 0.501

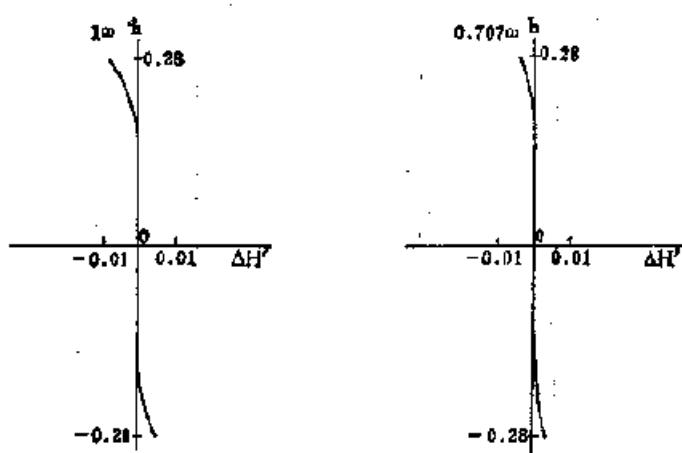
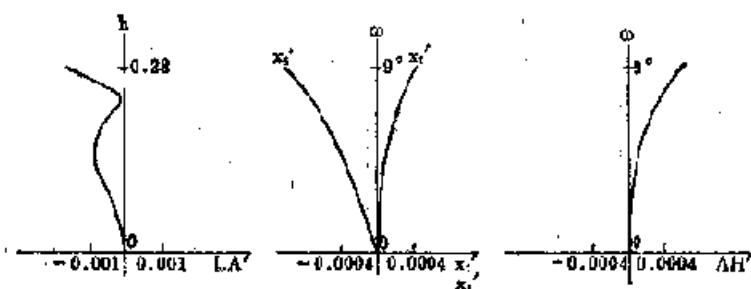
FNo. = 1.8

F. A. = 18°



序号	r	d	n _d	v	序号	r	d	n _d	v
1	0.7431	0.0706	1.61720	54.04	7	0.2348	0.2193		
2	∞	0.002			8	13.83	0.0222	1.57492	41.5
3	0.3768	0.1073	1.74430	44.9	9	0.5824	0.1242	1.68609	53.5
4	∞	0.0202	1.72151	29.28	10	-0.2136	0.0298	1.62039	60.35
5	0.6754	0.0456			11	-0.8193			
6	1.898	0.0393	1.63893	31.15					

	ΣS ₁	ΣS ₂	ΣS ₃	ΣS ₄	ΣS ₅	H1	QP(1ω)
	-0.00083	-0.000077	0.00014	-0.00035	0.000329	0.15	0.36%
h 或 ω %	LA'	ΔH'	x _t '	x _s '	x _t ' - x _s '	K _{xt}	K _{xt0.9}
100	-0.00359	0.00057	0.00040	-0.0010	0.0014	-0.0016	0.000089
70	-0.00065	0.00020	0.00021	-0.00000	0.00081	-0.00035	0.00011



编号: 01-00-025

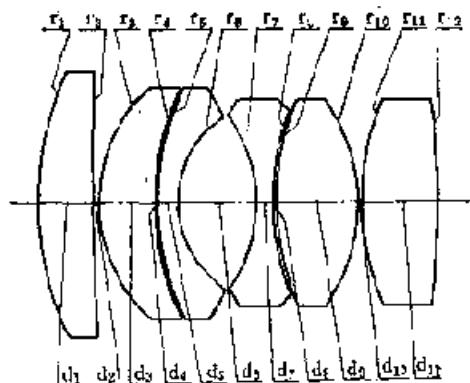
六片式物镜

E.F.L=1

B.F.L=0.46

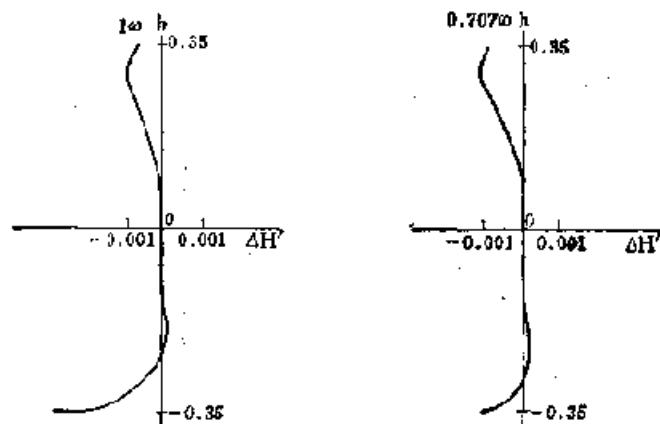
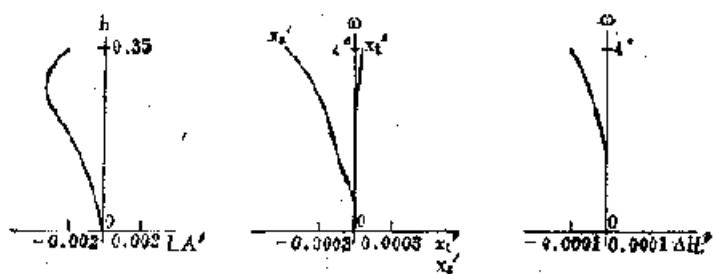
FNo. = 1.4

F.A. = 8°



序号	r	d	n _D	v _D	序号	r	d	n _D	v _D
1	0.832	0.15	1.73	31.0	7	-0.396	0.055	1.59	31.0
2	4.92	0.02			8	0.736	0.002		
3	0.403	0.16	1.49	57.0	9	0.774	0.22	1.49	57.0
4	0.766	0.004			10	-0.470	0.009		
5	0.766	0.055	1.59	31.0	11	0.744	0.21	1.70	56.0
6	0.275	0.21			12	-2.01			

	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	HI	QP(10)
	-0.0021	-0.000093	0.000085	-0.00023	-0.00078	0.07	-0.16%
λ或θ%	LA'	ΔH'	x _t '	x _s '	x _t - x _s '	K _t '	K _{t0.7}
100	-0.0019	-0.00011	0.000062	-0.00058	0.00065	-0.0017	-0.00040
70	-0.0031	-0.000039	0.000013	-0.00029	0.00033	-0.0012	-0.00030



编号: 01-00-026

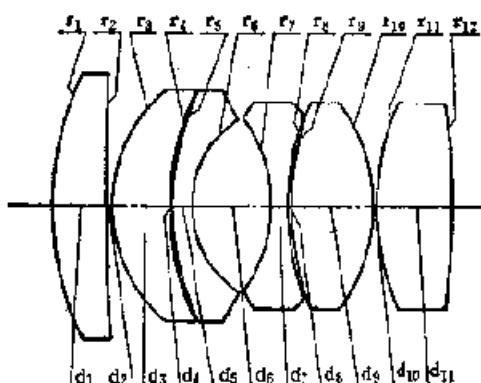
六片式物镜

E. F. L = 1

B. F. L = 0.49

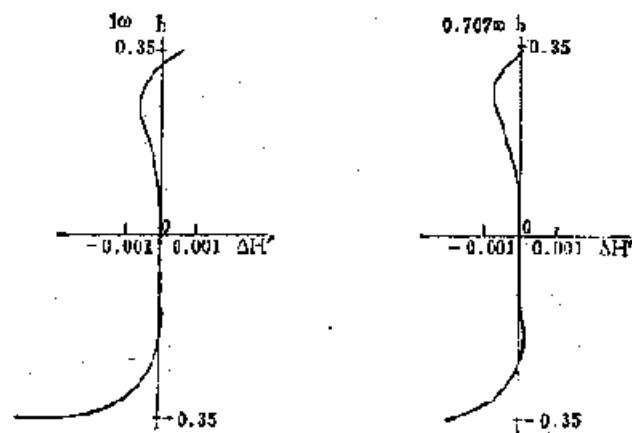
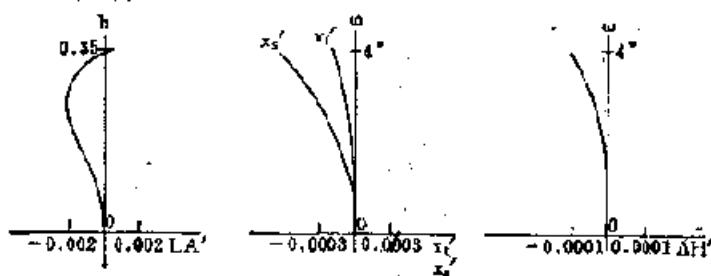
FNo. = 1.4

F. A. = 8°



序号	r	d	n_D	v_D	序号	r	d	n_D	v_D
1	0.829	0.15	1.7351.0		7	-0.373	0.0551.5733.0		
2	4.35	0.015			8	0.799	0.004		
3	0.424	0.16	1.4957.0		9	0.283	0.221.4957.0		
4	1.66	0.004			10	-0.452	0.01		
5	1.42	0.056	1.6783.0		11	0.772	0.211.7056.0		
6	0.282	0.21			12	-1.96			

	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	HT	QP(1%)
	-0.0017	-0.00014	0.000062	-0.00023	-0.000073	0.069	-0.15%
h 或 %	LA'	AH'	x_e'	x_e	$x_e' - x_e$	K_{T1}	$K_{T0.7}$
100	0.00045	-0.00010	-0.00019	-0.00069	0.00044	-0.0016	-0.00045
70	-0.0022	-0.00037	-0.000084	-0.00032	0.00023	-0.0011	-0.00053



编号: 01-00-027

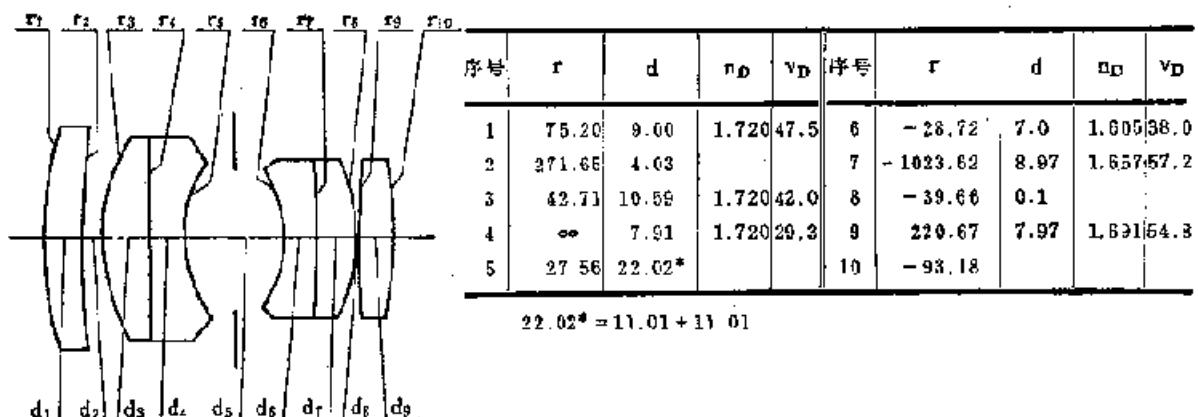
高斯型摄影物镜

E. F. L=100

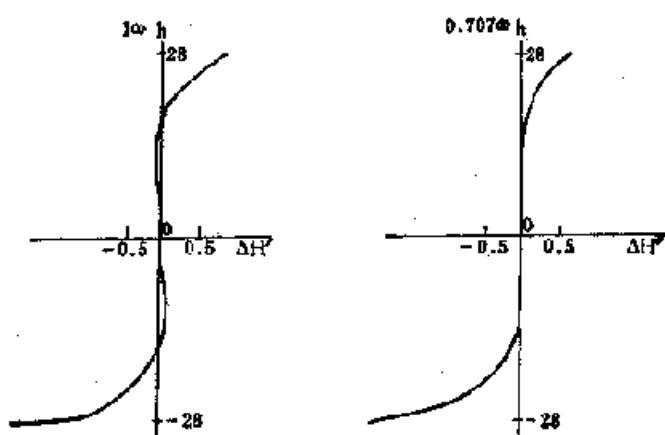
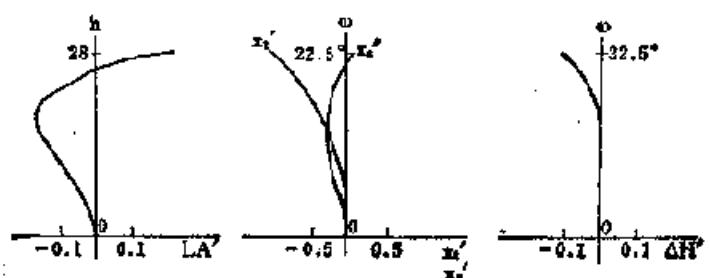
B. F. L=61.56

FNo. = 1.8

F. A. = 45°



	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	HII	QP(1φ)
	-0.11	-0.0045	0.035	-0.19	0.046	41.41	-0.25%
h 或 φ %	LA'	ΔH'	x_1'	x_2'	$x_1' - x_2'$	K_{T1}	$K_{T0.7}$
100	0.22	-0.10	-1.19	0.1	-1.30	-0.39	-0.028
70	-0.16	0.00082	-0.39	-0.28	0.11	-0.63	-0.082



编号: 01-00-028

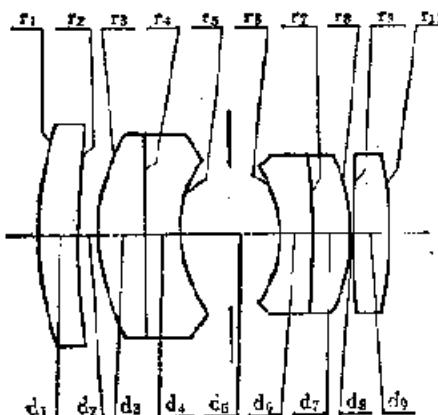
高斯型摄影物镜

E. F. L = 100

B. F. L = 63.38

FNo. = 1.8

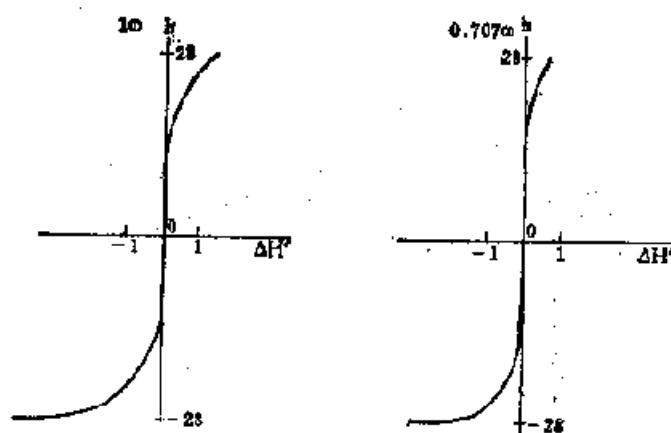
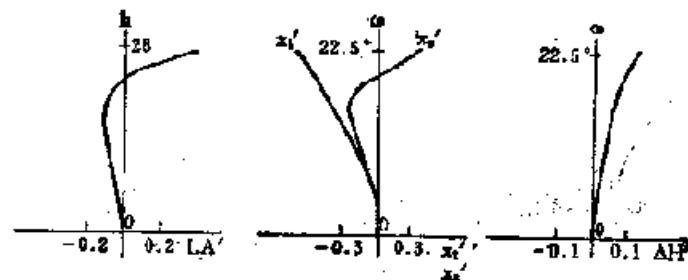
F. A. = 45°



序号	r	d	n _D	v _D	序号	r	d	n _D	v _D
1	75.40	9.01	1.744	45.5	6	-32.90	7.01	1.689	30.9
2	273.87	0.10			7	∞	9.02	1.744	45.6
3	42.52	16.55	1.720	42.0	8	-45.22	0.10		
4	∞	2.0	1.720	29.3	9	250.96	8.02	1.720	47.5
5	28.19	18.01*			10	-109.45			

$$18.01^* = 9.76 + 8.25$$

	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	HJ	QP(1ω)
	-0.10	-0.0057	0.014	-0.18	0.12	41.41	0.29%
h 或 ω %	LA'	AH'	x_t'	x_s'	$x_t' - x_s'$	K_{T1}	$K_{T0.7}$
100	0.89	0.12	-0.67	0.33	-1.01	-1.39	-0.15
70	-0.12	0.063	-0.38	-0.25	-0.13	-1.08	-0.14



编号: 01-00-029

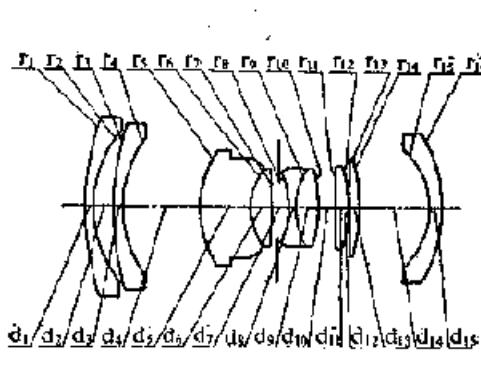
广角镜头

E.F.L = 1.0

B.F.L = 0.47

FNo. = 2.8

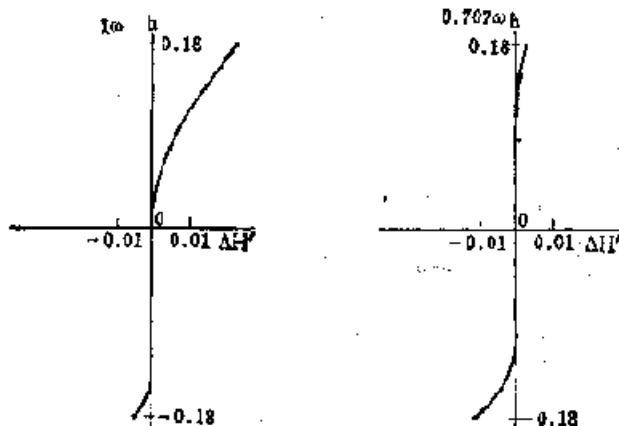
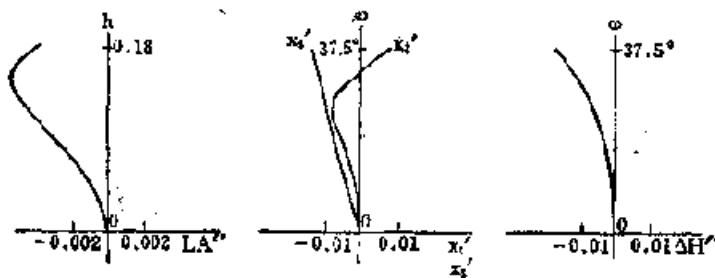
F.A. = 75°



序号	r	d	n _o	v _o	序号	r	d	n _o	v _o
1	1.3412	0.0582	1.50359	66.7	9	0.4500	0.1455	1.74793	44.7
2	0.7102	0.1247			10	-0.9140	0.1071		
3	1.6744	0.0582	1.48915	69.9	11	8.5226	0.0728	1.69290	49.4
4	0.6888	0.4859			12	-1.4745	0.0014		
5	0.7057	0.2910	1.79128	47.4	13	-5.8307	0.0728	1.69290	49.4
6	0.4249	0.1455	1.66104	57.1	14	-1.4645	0.4865		
7	-1.7427	0.0972			15	-0.4694	0.0780	1.69416	30.9
8	-0.5612	0.0488	1.75458	34.8	16	-0.8453			

$$0.0972^* = 0.0486 + 0.0486$$

	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	HI	QP(1 ω)
	-0.00077	-0.00036	-0.00033	0.0013	0.0049	0.76	-2.11%
b 或 ω %	LA'	$\Delta H'$	x_1'	x_2'	$x_1' - x_2'$	K_{T1}'	$K_{T0.7}'$
100	-0.0041	-0.016	0.0077	-0.013	0.020	0.0093	-0.0053
70	-0.0047	-0.0061	-0.0015	-0.011	0.0020	-0.0033	-0.000033



编号: 01-00-030

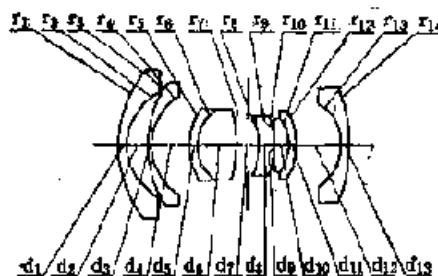
广 角 镜 头

E. F. L = 1.0

B. F. L = 0.50

FNo. = 2.8

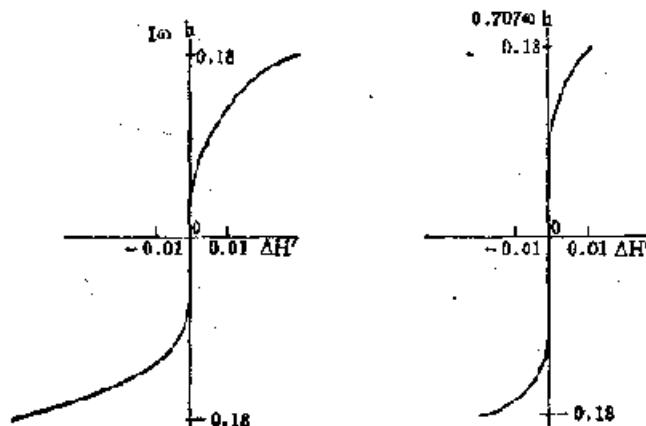
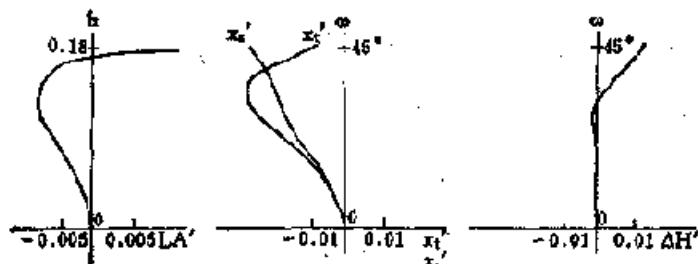
F. A. = 90°



序号	r	d	n	v	序号	r	d	n	v
1	1.024083	0.056881	1.51871	64.0	8	-0.825459	0.152294	1.79128	47.2
2	0.513349	0.181193			9	-0.981422	0.001835		
3	0.374908	0.056422	1.51871	64.0	10	4.178945	0.139450	1.62541	56.6
4	0.523899	0.348165			11	-0.388908	0.049541	1.80156	28.2
5	0.738716	0.080734	1.79128	47.2	12	0.684312	0.417431		
6	0.413578	0.351835	1.62303	60.1	13	-0.460367	0.079358	1.62303	60.1
7	-1.312523	0.202752*			14	-1.740872			

$$0.202752^* = 0.100000 + 0.102752$$

	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	HT	QP(10)
	-0.0015	0.00040	0.0011	0.00075	0.0019	1.00	1.35%
h 或 ∞ %	LA'	$\Delta H'$	x_t'	x_t''	$x_t' - x_t''$	K_{T1}	$K_{T0.7}$
100	0.012	-0.013	-0.0085	-0.026	0.017	-0.014	-0.0042
70	-0.0085	-0.00091	-0.028	-0.017	-0.011	-0.0036	-0.00026



编号: 01-00-031

四组元物镜

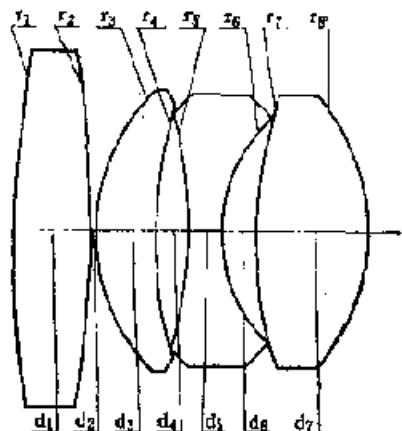
E.F. L=100

B.F. L=59.39

FNo. = 1.4

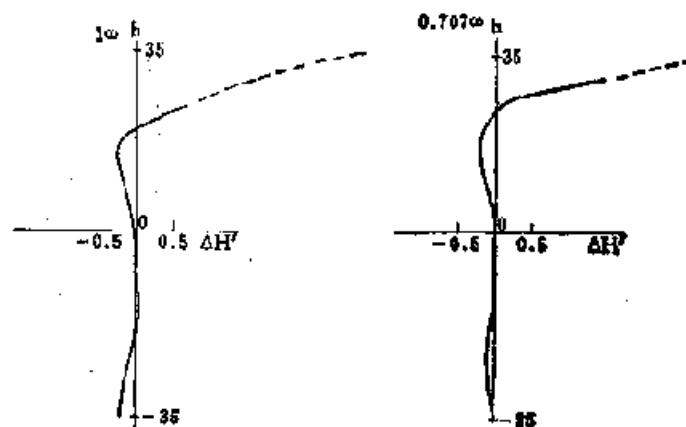
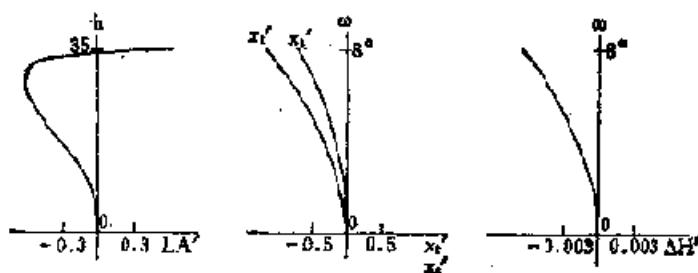
F.A. = 16°

Lp' = -5.0



序号	z	d	n_D	v_D	序号	z	d	n_D	v_D
		5.0							
1	288.7	20.0	1.697	56.0	5	-138.9	9.9	1.72	29.0
2	288.7	2.4			6	42.2	9.1		
3	54.3	17.0	1.697	56.0	7	115.4	31.6	1.697	56.0
4	132.8	8.4			8	-55.7			

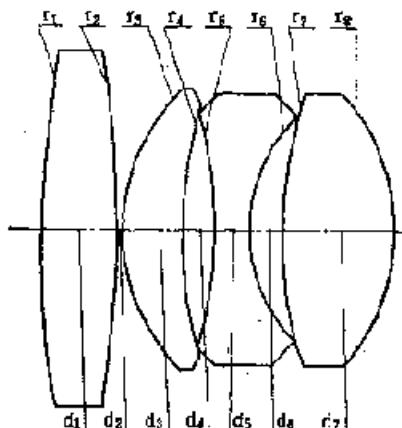
	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	HI	QP(1ω)
	-0.31	-0.27	-0.066	-0.12	-0.0086	14.05	-0.045%
h 或 ω%	LA'	ΔH'	x_t'	x_s'	$x_t' - x_s'$	K_{T1}	$K_{T0.7}$
100	0.52	-0.0063	-1.12	-0.72	-0.39	7.8	0.33
70	-0.59	-0.0033	-0.61	-0.38	-0.23	5.3	-0.033



编号: 01-00-032

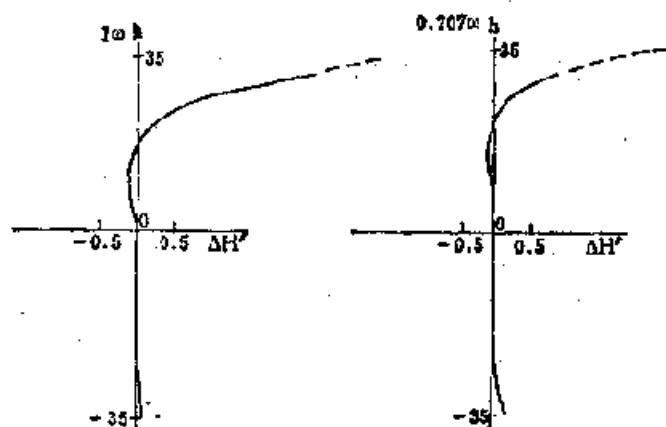
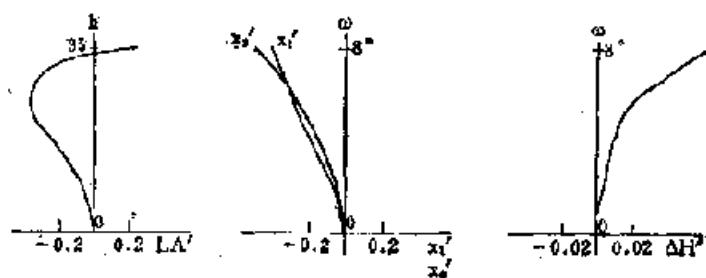
四组元物镜

E.F. L=100 B.F. L=48.09 FNo. = 1.4 F. A. = 16' Lp₁' = -5.0



序号	r	d	n _D	v _D	序号	r	d	n _D	v _D
		5.0*							
1	258.4	20.1	1.697	56.0	6	-308.7	12.2	1.720	29.0
2	-258.4	1.5			6	37.3	8.64		
3	48.6	17.1	1.697	56.0	7	93.75	31.7	1.697	56.0
4	87.81	8.87			8	-52.7			

	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_6	HI	QP(100)
	-0.29	-0.15	-0.012	-0.12	0.034	14.06	0.43%
h 或 0 %	LA'	$\Delta H'$	x_2'	x_4'	$x_4 - x_6'$	K_{T1}	$K_{T2,7}$
100	0.24	0.060	-0.41	-0.49	0.079	5.28	0.33
70	-0.39	0.019	-0.27	-0.26	-0.0099	1.86	0.069

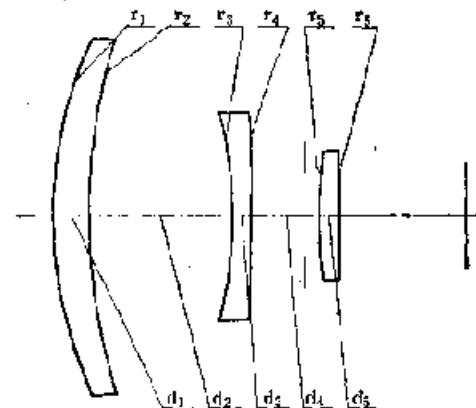


编号: 01-00-033

红外光学系统

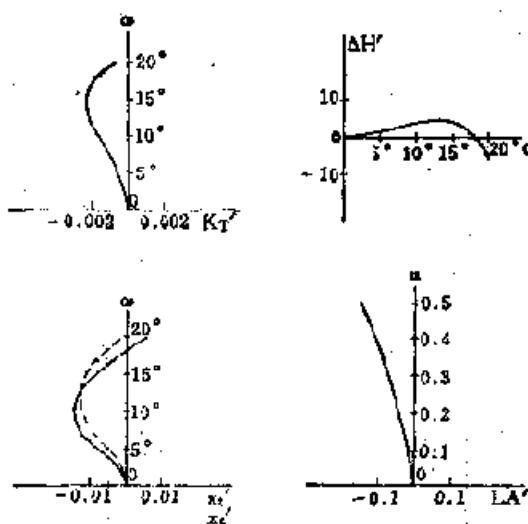
號

E. F. L = 2.0 英寸 B. F. L = FNo. = 2 F. A. = 40° 光栏直径 = 0.518



序号	t	d	$\alpha(8.50)$	$\gamma(1.7 \sim 11.60)$	ψ
1	2.498	0.267	3.4195	132.94	2.550
2	3.653	0.820			
3	-2.732	0.140	2.3964	29.09	1.220
4	-16.566	0.427*			
5	5.412	0.160	3.4195	132.94	0.800
6	-0.518				

$$0.427^* = 0.352 + 0.075$$



编号: 01-00-034

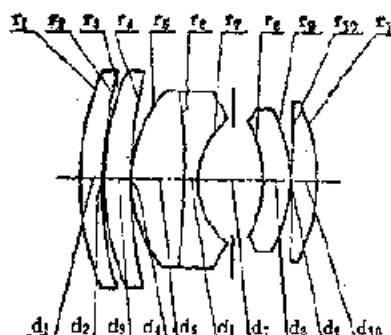
摄 影 物 镜

E. F. L = 1

B. F. L = 0.52

FNo. = 1

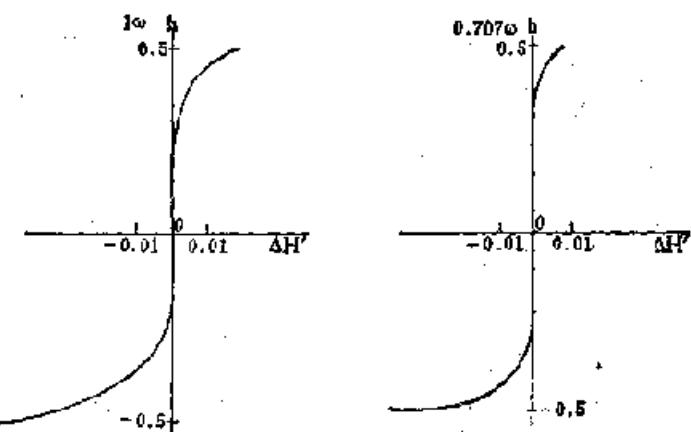
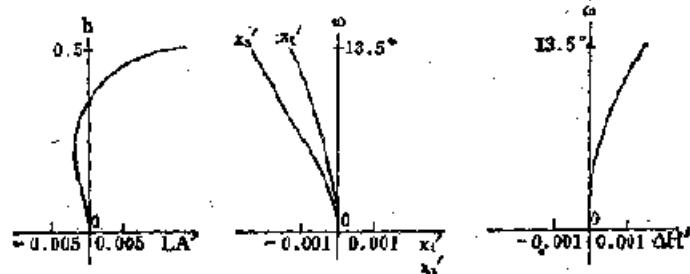
F. A. = 27°



序号	r	d	x _a	v _a	序号	r	d	x _a	v _a
1	0.69162	0.07244	1.66290	49.4	7	0.22854	0.38944*		
2	1.12979	0.003			8	-0.30634	0.07589	1.73431	28.4
3	0.69162	0.07244	1.66290	49.4	9	-0.46674	0.00978		
4	1.12979	0.003			10	3.25447	0.07211	1.69290	49.4
5	0.30534	0.13989	1.66290	49.4	11	-0.55524			
6	-2.42522	0.03967	1.66416	30.9					

$$0.18944^* = 0.10000 + 0.08944$$

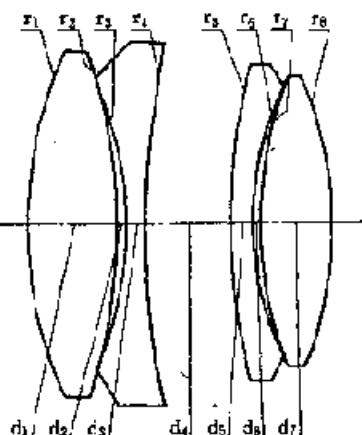
	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	HI	QP(10 ⁴)
	-0.0022	-0.00016	0.00014	-0.0010	0.0012	0.24	0.63%
b 或 10 ⁴ %	LA'	$\Delta H'$	x_t'	x_s'	$x_t' - x_s'$	K _{T1}	K _{fo,t}
100	0.031	-0.0015	-0.0013	-0.0024	0.0011	-0.036	-0.0026
70	-0.00049	0.00061	-0.0010	-0.0017	0.00063	-0.016	-0.0018



编号: 01-00-035

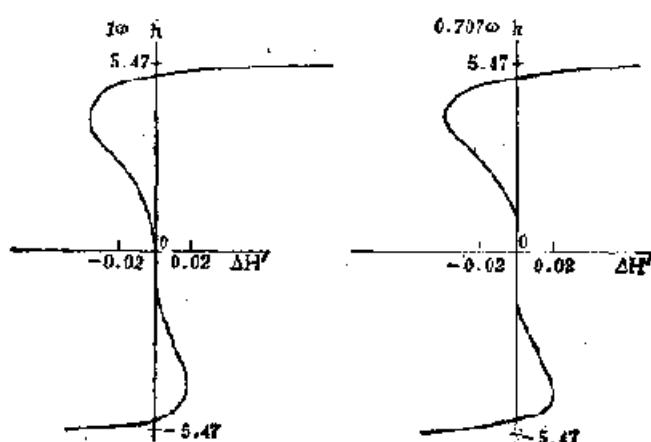
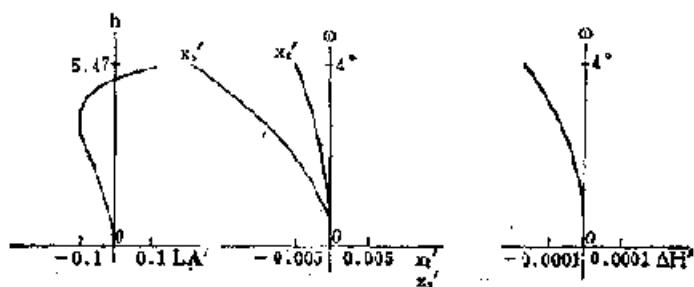
改型珀兹伐摄影物镜

E. F. L=13.17 B. F. L=5.20 FNo. = 1.2 F. A. = 8° $Lp'_1 = -1.5$



序号	r	d	n _D	v _D	序号	r	d	n _D	v _D
1.5*									
1	10.3753	3.68	1.691	54.8	5	10.1859	0.93	1.867	31.0
2	-26.0615	0.295			6	5.8513	1.00		
3	-17.7011	0.33	1.867	31.0	7	8.7902	4.61	1.691	54.8
4	∞	3.60			8	-18.3654			

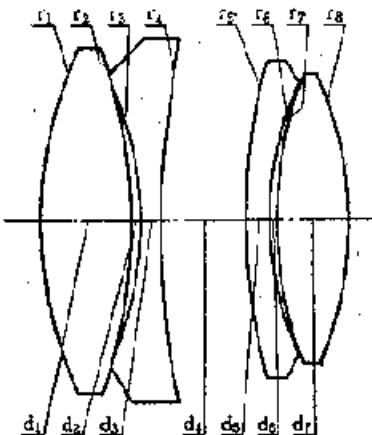
	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	HI	QP(1ω)
	-0.11	-0.0070	0.0023	-0.0093	-0.00016	0.92	-0.013%
h 或 ω %	LA'	$\Delta H'$	x_1'	x_2'	$x_3' - x_4'$	K _{T1}	K _{T0.5}
100	0.10	-0.00016	-0.0053	-0.019	0.014	0.028	-0.0097
70	-0.10	-0.000065	-0.0030	-0.010	0.0070	0.016	-0.0077



编号: 01-00-036

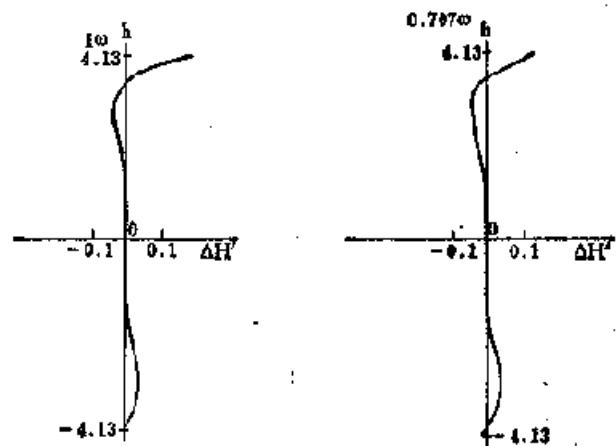
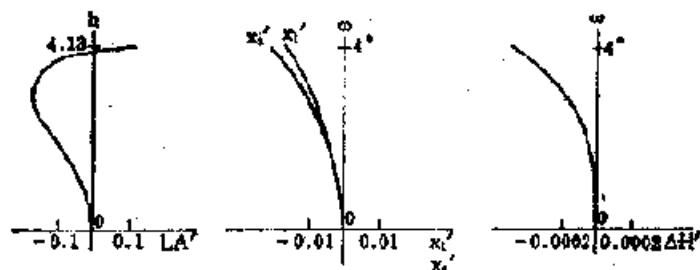
改型珀兹伐摄影物镜

E. F. L = 13.205 B. F. L = 9.82 F. No. = 1.6 F. A. = 8° $L_p = -1.5$



序号	r	d	n_D	v_D	序号	r	d	n_D	v_D
		1.5*							
1	11.1686	2.5	1.657	50.9	5	44.4831	0.68	1.649	33.8
2	-14.9968	0.291			6	8.1658	0.257		
3	-10.000	0.62	1.649	33.8	7	11.8032	2.0	1.657	50.9
4	63.0952	2.4			8	-9.8174			

	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	HI	QP(1w)
	-0.099	-0.0055	0.00025	-0.0042	-0.00030	0.92	-0.050%
h 或 ω %	LA'	$\Delta H'$	x_t'	x_s'	$x_t' - x_s'$	K_{11}'	$K_{10.7}'$
100	0.11	-0.00046	-0.016	-0.020	0.0033	0.092	-0.0018
70	-0.17	-0.00016	-0.0086	-0.010	0.0014	0.058	-0.0022



编号: 01-00-037

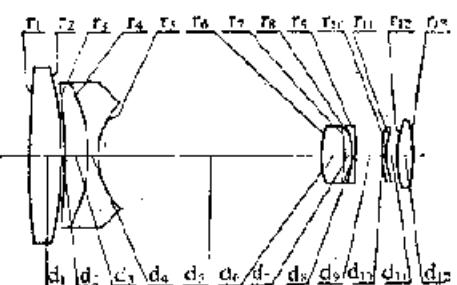
广角摄影物镜

E.F. L=11.0

B.F. L=22.2

FNo. = 2.8

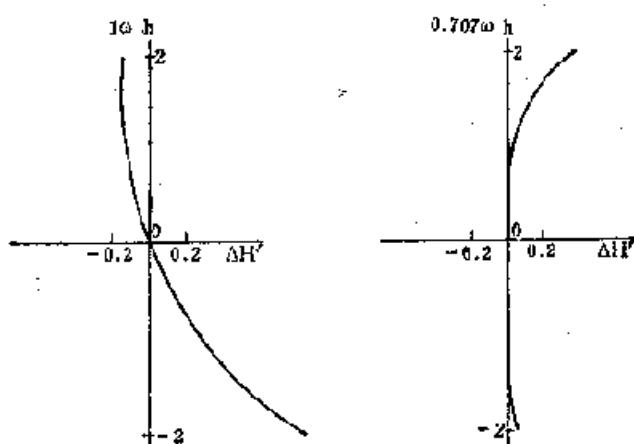
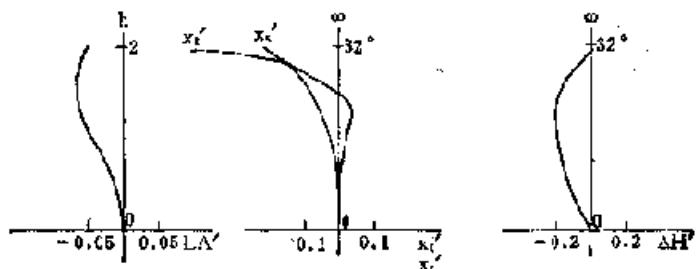
F.A. = 64°



序号	r	d	n _D	v _D	序号	r	d	n _D	v _D
1	166.789	5.0	1.541	47.3	8	-11.32	0.76	1.621	36.2
2	-60.881	0.5			9	-46.23	4.25		
3	-100.016	3.5	1.617	36.6	10	17.29	0.76	1.649	33.8
4	-22.711	1.5	1.5582	67.8	11	10.83	1.32		
5	10.79	34.5*			12	16.369	2.10	1.511	63.6
6	17.99	3.64	1.511	63.5	13	-29.46			
7	-12.139	0.52							

$$34.5'' = 28.5 \pm 6.0$$

	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	H1	QP(%)
	-0.013	0.0057	0.0053	-0.014	-0.19	6.87	0.34%
$h \text{ 或 } \omega \%$	LA'	$\Delta H'$	x_t'	x_s'	$x_t' - x_s'$	K_{T1}	$K_{T0.7}$
100	-0.052	0.023	-12.07	-0.20	-11.86	0.32	0.13
70	-0.065	-0.19	0.040	-0.064	0.10	0.19	0.061



编号: 01-00-038

大相对孔径的折反射光学系统

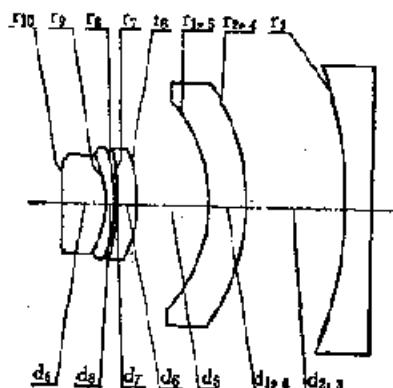
E. F. L = 1

B. F. L =

FNo. = 0.63

F. A. =

$$\beta = \left(\frac{1}{6.4} \right)^*$$



序号	r	d	n	v	序号	r	d	n	v
1	-0.89025	0.2	1.51633	64.1	6	-0.60387	0.12	1.51633	64.1
2	-1.12294	0.55879			7	-1.82836	-0.004		
3	-2.36770	0.55879	-1		8	-1.05008	-0.04	-1.71736	29.5
4	-1.12294	-0.2	-1.51633	64.1	9	-0.51633	-0.25085	-1.51633	64.1
5	-0.89025	-0.40326			10	∞	1		

编号: 01-00-039

大相对孔径的折反射光学系统

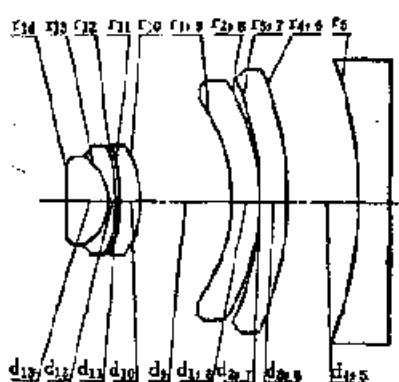
E. F. L = 1

B. F. L =

FNo. = 0.63

F. A. =

$$\beta = \left(\frac{1}{6.4} \right)^*$$



序号	r	d	n	v	序号	r	d	n	v
1	-0.95546	0.13011	1.51633	64.1	8	-1.37887	-0.13011	-1.51633	64.1
2	-1.57887	0.0043			9	-0.95545	-0.51095		
3	-1.91034	0.16129	1.62004	36.3	10	-0.50339	-0.12048	-1.51633	64.1
4	-1.68398	0.3823			11	-1.33061	-0.0043		
5	-2.38359	-0.3823	-1		12	-0.94432	-0.03978	-1.71736	29.5
6	-1.68398	-0.16129	-1.62004	36.3	13	-0.32242	-0.23726	-1.51633	64.1
7	-1.91034	-0.0043			14	-6.25930			

编号: 01-00-040

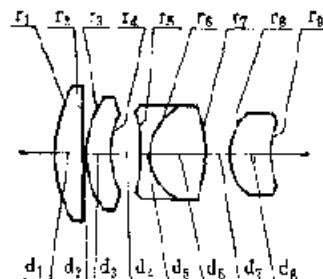
大孔径放映镜头

E. F. L = 100

B. F. L = 15.8

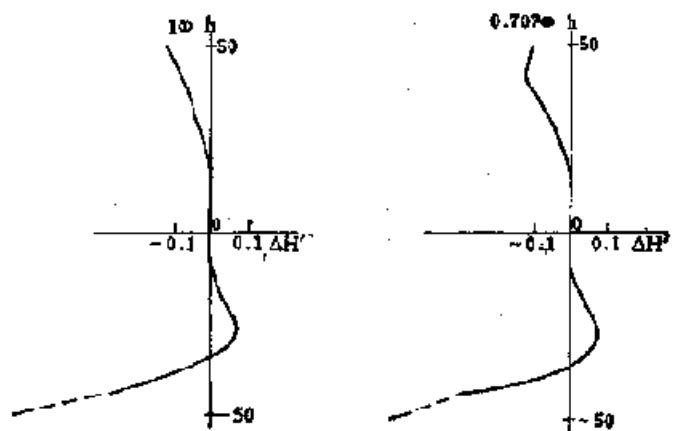
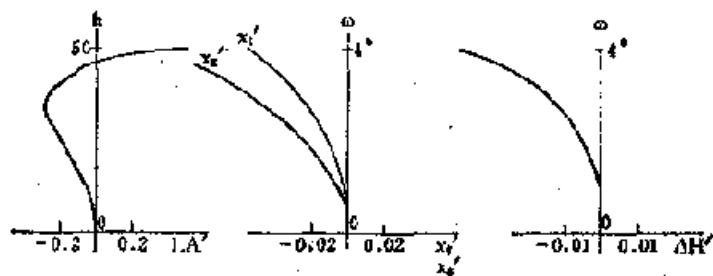
FNo. = 1.0

F. A. = 8°



序号	r	d	n _D	v _D	序号	r	d	n _D	v _D
1	109.2	22.4	1.617	54.9	6	40.1	45.8	1.670	47.2
2	3200.7	2.6			7	-88.3	18.8		
3	67.3	21.1	1.605	43.6	8	44.6	31.8	1.734	51.0
4	65.5	24.6			9	59.0			
5	-107.0	6.6	1.753	27.8					

	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	HI	QP(100)
	-0.49	0.082	0.015	0.066	-0.038	7	-0.55%
h 成%	LA'	$\Delta H'$	x_t'	x_s'	$x_t' - x_s'$	K_{t1}	$K_{t0.7}$
100	0.50	-0.038	-0.055	-0.097	0.042	-4.16	-0.046
70	-0.27	-0.013	-0.023	-0.050	0.028	-1.46	-0.017



编号: 01-00-041

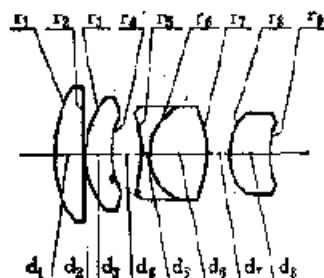
大孔径放映镜头

E.F.L=100

B.F.L=17.9

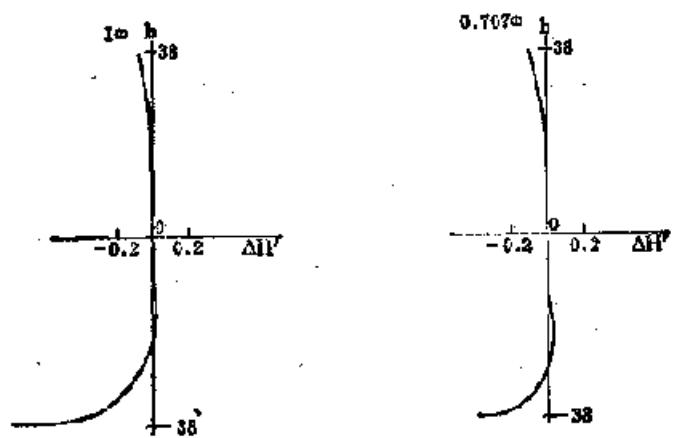
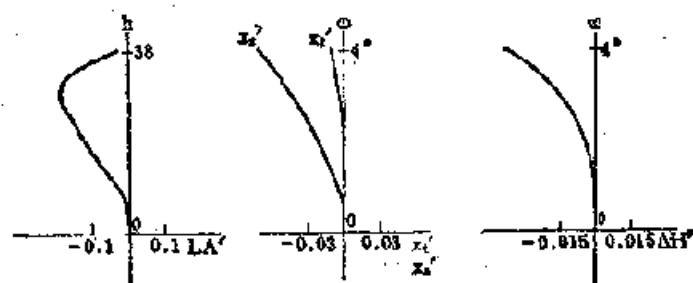
FNo. = 1.3

F.A. = 8°



序号	r	d	n _D	v _D	序号	r	d	n _D	v _D
1	98.5	21.4	1.613	58.8	6	32.6	35.2	1.611	58.8
2	1006.0	9.3			7	-86.1	5.2		
3	61.0	26.3	1.613	58.8	8	40.0	28.5	1.649	33.8
4	56.2	9.0			9	49.5			
5	-143.2	28.0	1.720	29.3					

	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	HI	QP(1 ω)
	-0.18	0.026	0.0138	-0.035	0.030	7	-0.55%
h 或 ω %	LA'	$\Delta H'$	x_t'	x_s'	$x_t - x_s'$	K_{T1}	$K_{T\omega, \tau}$
100	-0.042	-0.038	-0.0098	-0.073	0.063	-0.46	-0.025
70	-0.17	-0.013	0.0015	-0.037	0.039	-0.24	-0.0093



1108699

编号: 01-00-042

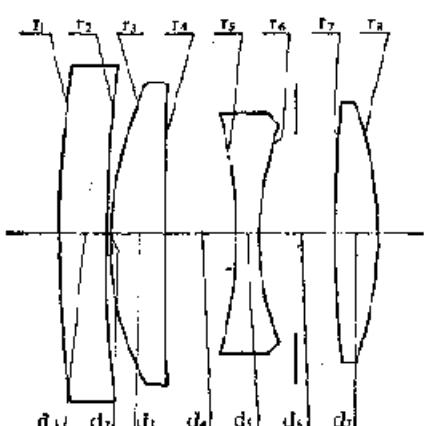
消象散的四镜片物镜

E. F. L=100

B. F. L=81

FNo. = 2.7

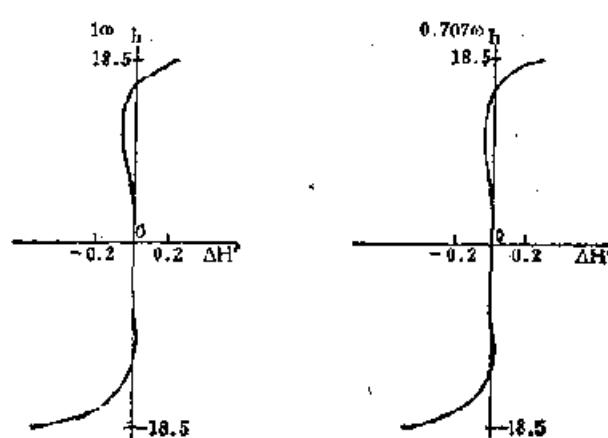
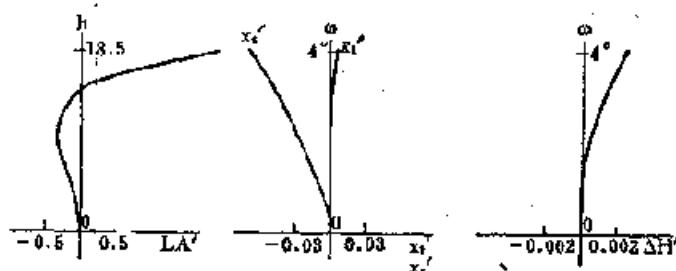
F. A. = 8°



序号	r	d	n	v	序号	r	d	n	v
1	116.31	5.69	1.610	56.9	5	-54.00	1.28	1.649	33.8
2	144.26	0.28			6	42.08	11.02*		
3	41.38	6.10	1.658	56.8	7	713.41	6.47	1.620	60.3
4	-503.55	8.27			8	-39.92			

$$11.02^* = 5.00 + 6.02$$

	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	HI	QP(10 ³)
	-0.11	-0.0058	0.0026	-0.0073	0.00094	7	0.037%
h 或 φ %	LA'	ΔH'	x_4'	x_5'	$x_5' - x_4'$	K _{T1}	K _{T0.7}
100	1.96	0.0025	0.0095	0.067	0.077	0.17	-3.040
70	-0.25	0.00091	0.0043	-0.034	0.038	-0.12	-0.027



编号: 01-00-043

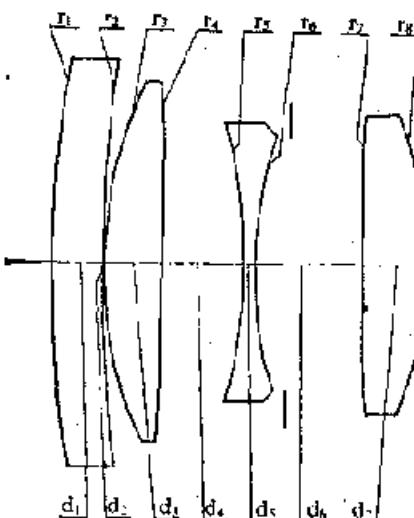
消象散的四镜片物镜

E. F. L = 100

B. F. L = 76

FNo. = 2.4

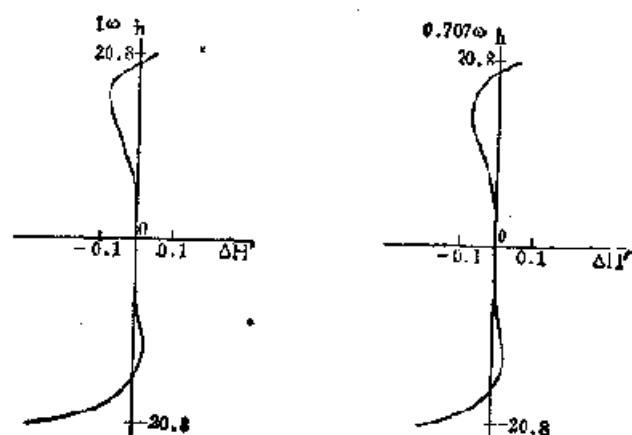
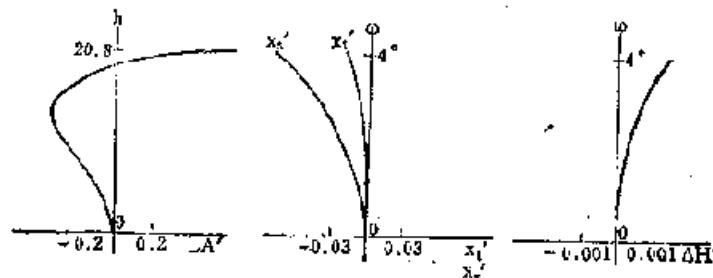
F. A. = 8°



序号	r	d	n	v	序号	r	d	n	v
1	146.91	7.4535	1.5890	61.0	5	67.082	3.7268	1.7050	30.3
2	198.05	3.5324			6	47.916	11.180*		
3	47.916	8.5182	1.6930	53.3	7	198.05	6.9211	1.7500	44.5
4	1064.8	10.648			8	-51.429			

$$11.180^* = 5.000 + 6.180$$

	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	H	$QF(1\omega)$
	-0.13	-0.0055	0.0025	-0.0091	0.00058	7	0.020%
h 或 ω %	LA'	$\Delta H'$	x_1'	x_2'	$x_1' - x_2'$	K_{TH}	$K_{T0.7}$
100	0.66	0.0014	-0.014	-0.074	0.060	-0.13	-0.031
70	-0.37	0.00149	0.0075	-0.037	0.030	-0.090	-0.021



编号: 01-00-044

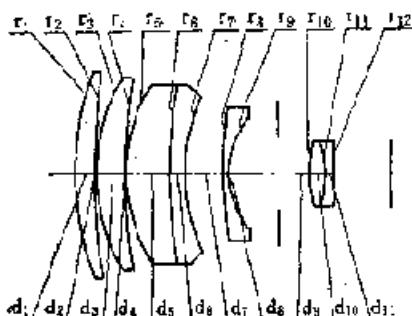
摄影或电影摄影用的大孔径望远物镜

E. F. L=100

B. F. L=29.1

FNo. = 2

F. A. = 20°

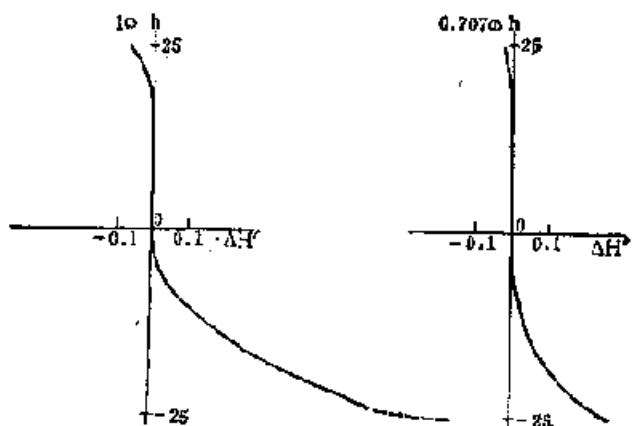
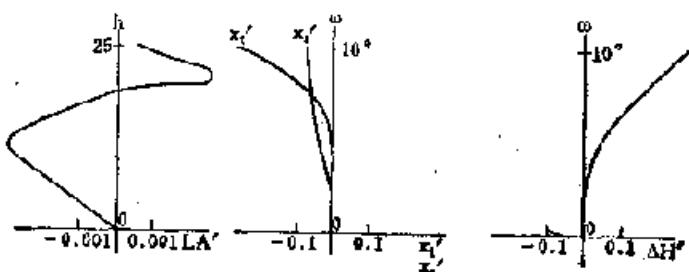


序号	r	d	n _g	v _g	序号	r	d	n _g	v _g
1	80.59	6.08	1.51871	63.96	7	50.75	10.40		
2	581.56	0.08			8	99.39	1.55	1.70444	29.34
3	52.28	8.11	1.51871	63.96	9	20.06	22.22*		
4	174.19	0.11			10	62.49	4.55	1.67245	44.71
5	42.11	12.28	1.62237	60.06	11	-17.55	2.07	1.62534	57.87
6	441.68	4.15	1.70444	29.34	12	-259.70			

$$\Sigma d = 71.59$$

$$22.22^* = 14.00 + 8.22$$

	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	HJ	QP(1ω)
	-0.0035	0.00044	0.010	-0.032	0.19	17.63	1.57%
h 或 ω %	LA'	ΔH'	x_t'	x_s'	$x_t' - x_s'$	K _{T1}	K _{T0.7}
100	0.00052	0.29	-0.26	-0.077	-0.18	0.43	0.15
70	-0.00091	0.12	-0.040	-0.064	0.024	0.12	0.046



编号: 01-00-045

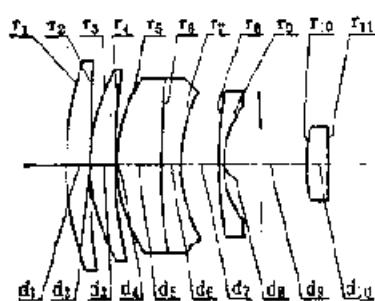
摄影或电影摄影用的大孔径望远物镜

E. F. L = 100

B. F. L = 29.6

FNo. = 2

F. A. = 20°

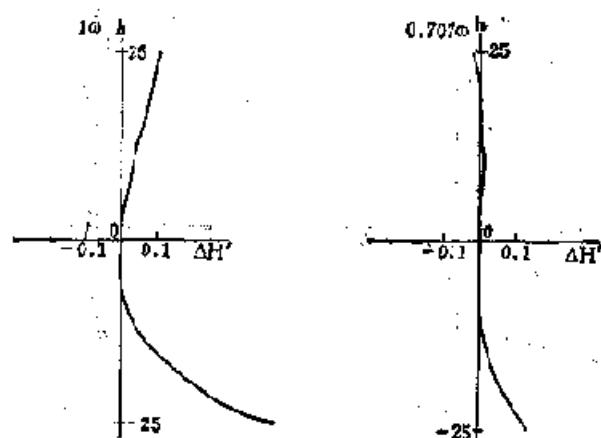
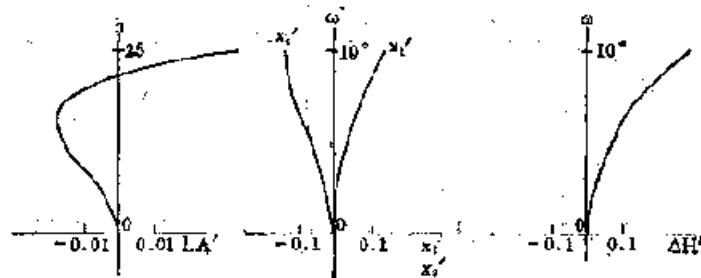


序号	r	r'	n _o	v _o	序号	r	d	n _o	v _o
1	84.32	6.34	1.51871	63.96	7	49.03	10.48		
2	535.46	0.06			8	104.87	1.56	1.70444	29.84
3	52.64	7.94	1.51871	63.96	9	24.47	22.37*		
4	176.38	0.11			10	55.47	6.69	1.7044	29.84
5	43.36	12.36	1.62287	60.06	11	-3130.83			
6	377.84	4.18	1.70444	29.84					

$\Sigma d = 72.09$

$22.37^* = 10.00 + 12.37$

	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	HI	QP(Φ)
	-0.011	-0.011	0.022	-0.056	0.19	17.63	1.65%
h 或 Φ %	LA'	ΔH'	x ₁ '	x ₄ '	x ₁ '-x ₃ '	K _{T1}	K _{T0.7}
100	0.033	0.20	0.135	-0.135	0.27	0.26	0.11
70	-0.017	0.12	0.062	-0.10	0.17	0.056	0.023



编号: 01-00-046

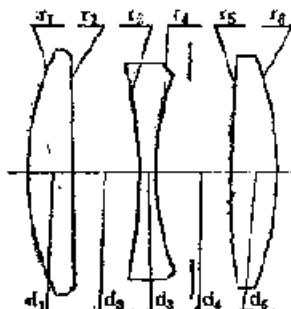
三 片 式 物 镜

E. F. L = 100

B. F. L = 82.79

FNo. = 2.8

F. A. = 47°

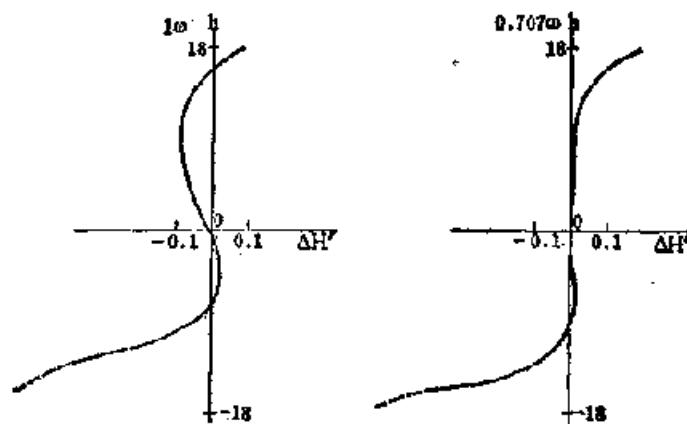
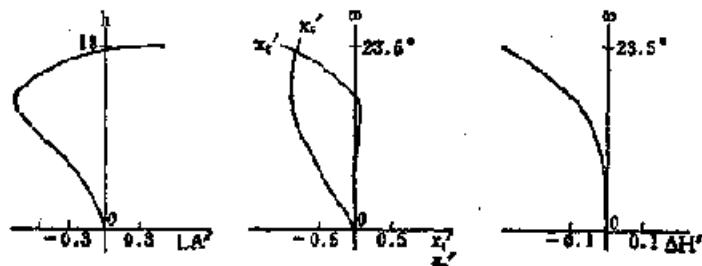


序号	r	d	n _o	v _u	序号	r	d	n _o	v _u
1	38.4537	6.47945	1.67000	48.13	4	38.9151	10.43249*		
2	942.116	9.15967			5	149.969	6.40254	1.64650	47.50
3	-57.6785	2.37644	1.70445	29.84	6	-45.7984			

$$\Sigma d = 34.85059$$

$$10.43249^* = 5.00000 + 5.43249$$

	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	HI	QP(1 ω)
	-0.16	0.047	0.066	-0.23	-0.052	43.48	-0.66%
h 成 ω %	LA'	$\Delta H'$	x_1'	x_4'	$x_1' - x_4'$	K _{T1}	K _{T0.7}
100	0.47	-0.29	-1.04	-0.84	-0.20	-1.38	-0.21
70	-0.73	-0.084	0.011	-0.90	0.91	-0.58	-0.034



编号: 01-00-047

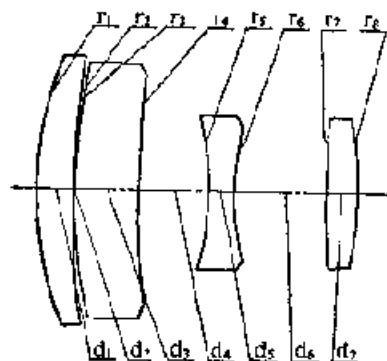
四 片 式 物 镜

E. F. L = 100

B. F. L = 72.53

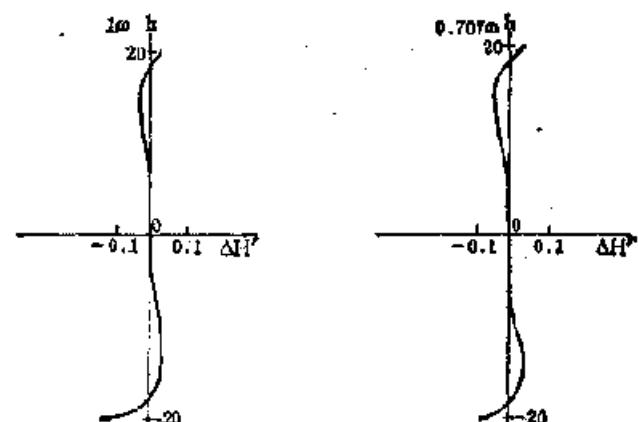
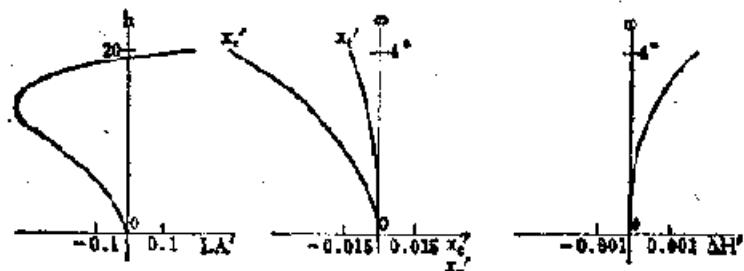
FNo. = 2.5

F. A. = 8°



序号	r	c	n _d	v _d	序号	r	c	n _d	v _d
1	53.10	5.94	1.71300	53.89	5	-57.78	4.24	1.69895	50.05
2	308.51	0.11			6	41.09	14.24		
3	98.74	9.79	1.56873	53.12	7	159.17	5.03	1.71300	53.89
4	268.73	10.46			8	-49.09			

	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	HI	QP(10)
	-0.090	0.0046	0.0020	-0.0072	0.00073	7	0.025%
h或% 100 70	LA'	$\Delta H'$	x_t'	x_s'	$x_t' - x_s'$	K_{T1}	$K_{T0.7}$
100 70	0.18 -0.31	0.0018 0.00063	-0.012 -0.0069	-0.063 -0.032	0.050 0.025	-0.047 -0.029	0.0029 0.0035



编号: 01-00-048

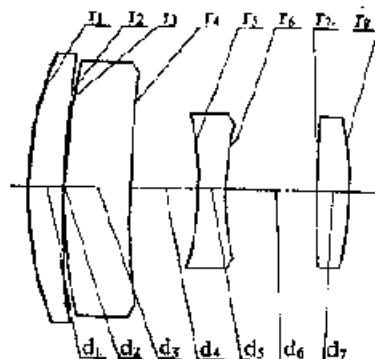
四 片 式 物 镜

E. F. L=100

B. F. L=72.70

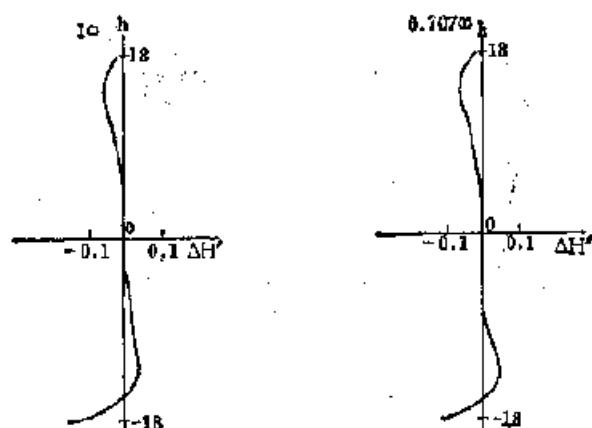
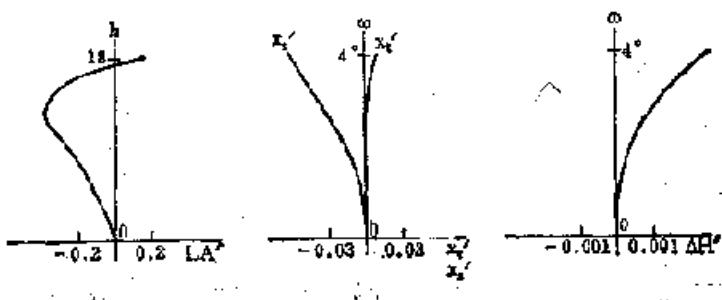
FNo. = 2.8

F. A. = 8°



序号	r	d	n _d	v _d	序号	r	d	n _d	v _d
1	42.03	4.40	1.62295	60.29	5	-59.68	2.61	1.72151	29.23
2	199.95	0.11			6	38.08	10.55		
3	88.27	9.81	1.52300	59.6	7	118.60	5.64	1.66392	44.98
4	273.54	10.25			8	-44.41			

	ΣS ₁	ΣS ₂	ΣS ₃	ΣS ₄	ΣS ₆	H _T	QP(100)
	-0.091	0.0030	0.0024	-0.0066	0.00095	7	0.037%
h 或 ω%	LA'	ΔH'	x _t	x _{t'}	x _t ' - x _{t'}	K _{T1}	K _{T0.7}
100	0.15	0.0026	0.0095	-0.064	0.074	-0.083	0.0055
70	-0.41	0.00093	0.0045	-0.032	0.037	-0.055	-0.0028



编号: 01-00-049

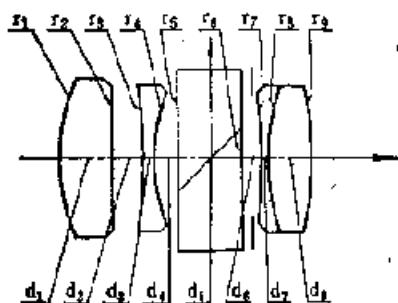
单镜头反射式照相机镜头

E. F. L = 1.0

B. F. L = 0.78

F No. = 2.8

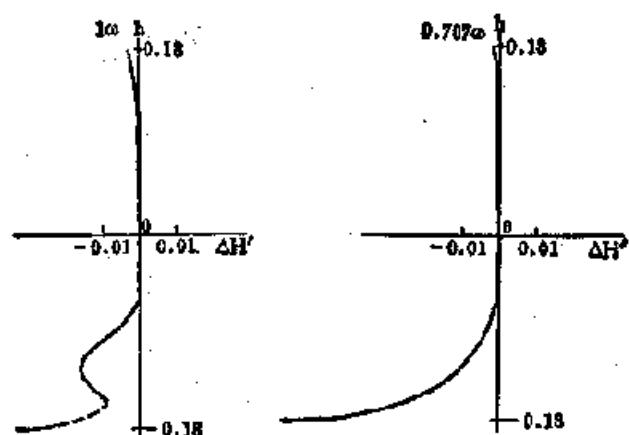
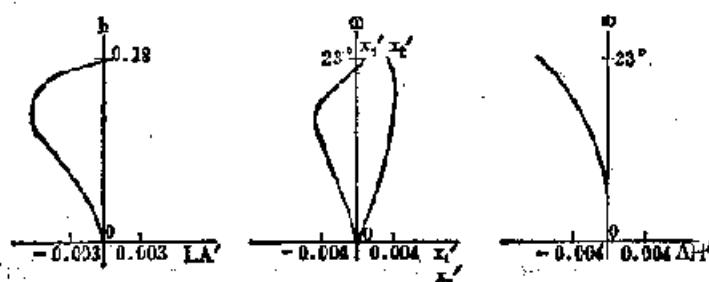
F. A. = ± 23°



序号	r	d	n _d	v _d	序号	r	d	n _d	v _d
1	0.376	0.1	1.717	47.9	6	∞	0.030*		
2	29.5	0.58			7	-4.0	0.016	1.603	38.0
3	-0.91	0.02	1.573	32.2	8	0.486	0.08	1.717	47.9
4	0.333	0.045			9	-0.610			
5	∞	0.12	1.515	64.0					

$$0.030^* = 0.013 + 0.015$$

	ΣS ₁	ΣS ₂	ΣS ₃	ΣS ₄	ΣS ₅	HI	QP(1ω)
	-0.0013	0.00053	0.00045	-0.0015	-0.0023	0.41	-1.38%
h 或 ω %	LA'	ΔH'	x _t	x _{t'}	x _t ' - x _{t'}	K _{T1}	K _{T0.7}
100	0.0013	-0.0079	0.0037	0.00077	0.0029	-0.20	-0.0094
70	-0.0062	-0.0028	0.0039	-0.0043	0.0082	-0.030	-0.0049



编号: 01-00-050

单镜头反射式照相机镜头

单

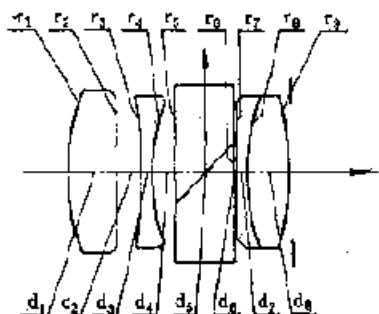
E. F. L=1.0

B. F. L=0.84

FNo. = 2.8

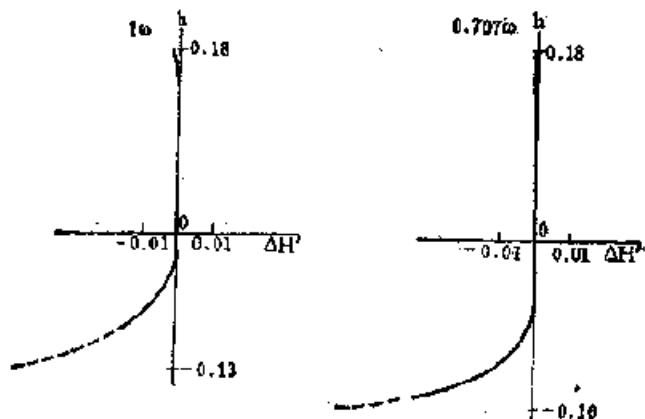
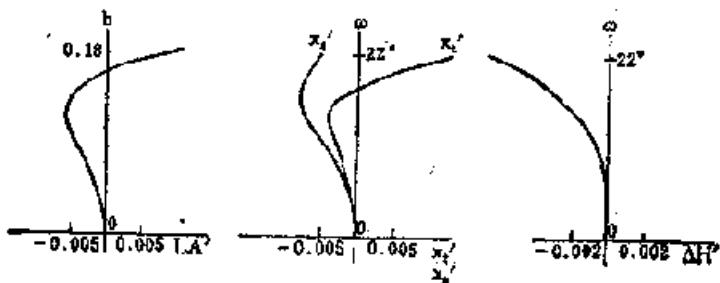
F. A. = $\pm 22'$

光栏位于最后表面的顶点处。



序号	r	d	n	v	序号	r	d	n	v
1	0.365	0.09	1.713	43.2	6	∞	0.004		
2	12.2	0.046			7	∞	0.018	1.503	38.0
3	-0.92	0.02	1.673	32.2	8	0.40	0.75	1.717	47.9
4	0.323	0.045			9	-0.546			
5	∞	0.11	1.516	64.0					

	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	HI	QP(100)
	-0.0015	0.00097	-0.00010	-0.0013	-0.0014	0.40	1.62%
±或% %	LA'	$\Delta H'$	x_t'	x_t'	$x_t' - x_t'$	K_{T1}	$K_{T0.7}$
100	0.011	-0.0085	0.013	-0.0056	0.010	-0.35	-0.028
70	-0.0058	-0.0019	-0.0042	-0.0076	0.0034	-0.061	-0.0056



编号: 01-00-051

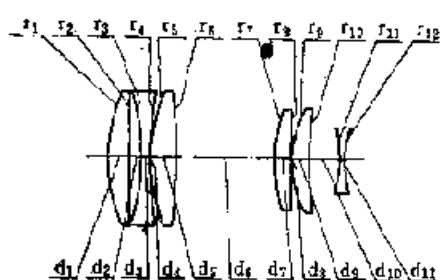
带有平象场镜及至少三个正透镜的珀兹伐物镜

E, F, L = 100

B, F, L = 17.04

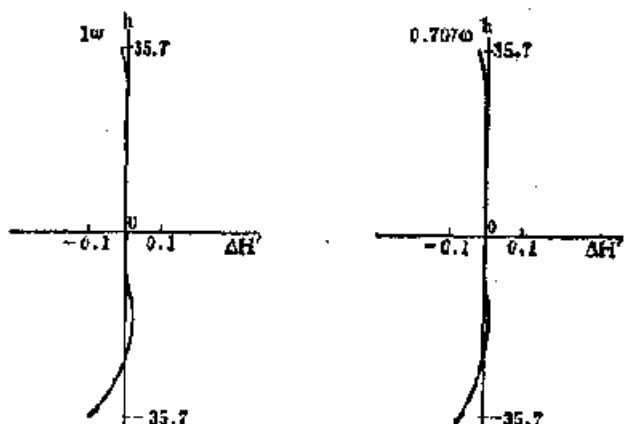
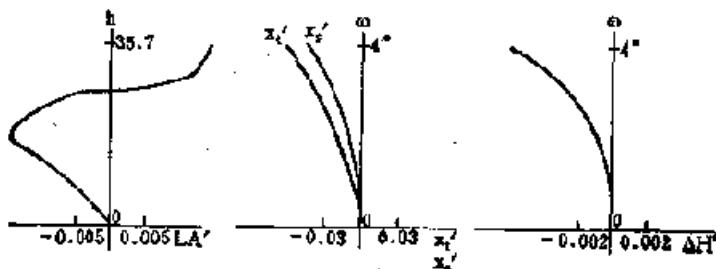
FNo. = 1.4

F, A = 8°



序号	r	d	n _D	序号	r	d	n _D	v _D
1	89.6	12.7	1.61158.8	7	88.3	9.0	1.61158.8	
2	∞	5.43		8	∞	0.587		
3	-120.2	4.89	1.72029.3	9	66.0	0.4	1.61158.8	
4	257.3	0.587		10	170.2	16.9		
5	106.3	12.9	1.61158.8	11	71.8	2.54	1.72029.3	
6	-333	55.4		12	79.7			

	ΣS ₁	ΣS ₂	ΣS ₃	ΣS ₄	ΣS ₅	HI	QP(ω)
	-0.028	0.016	-0.0039	-0.0091	-0.0041	7	0.084%
h 或 ω %	LA'	ΔH'	x _t '	x _s '	x _t '-x _s '	K _{T1}	K _{T0,7}
100	0.014	-0.0058	-0.071	-0.046	-0.025	-0.059	-0.0013
70	-0.0064	-0.0020	-0.036	-0.023	-0.012	-0.043	-0.0012



编号: 01-00-052

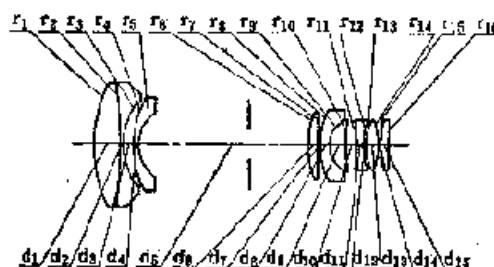
广角长工作截距摄影物镜

E. F. L = 10.0

B. F. L = 18.59

FNo. = 2.3

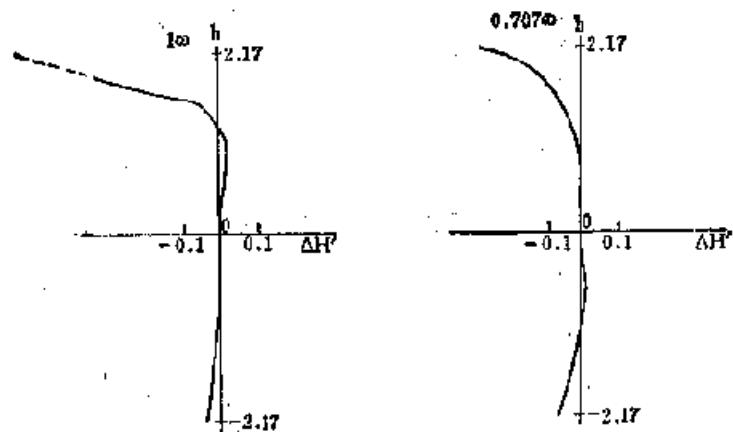
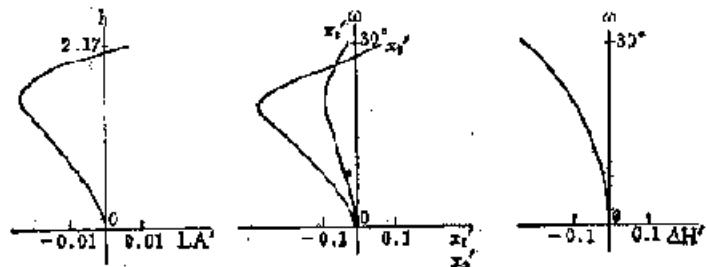
F. A. = 60°



序号	r	d	n _D	v _D	序号	r	d	n _D	v _D
1	39.42	7.06	1.8037	41.8	9	7.91	4.28	1.698	54.8
2	-158.91	1.56	1.498	67.0	10	31.70	3.50		
3	14.52	3.21			11	-30.11	1.90	1.7506	27.8
4	29.46	1.36	1.720	29.3	12	16.48	0.65		
5	12.14	16.06*			13	26.58	2.77	1.657	57.2
6	34.24	2.97	1.720	50.0	14	-28.28	0.07		
7	826.94	0.07			15	21.02	3.22	1.657	57.2
8	19.23	2.30	1.651	55.8	16	-532.76			

$$46.06^* = 31.09 + 14.97$$

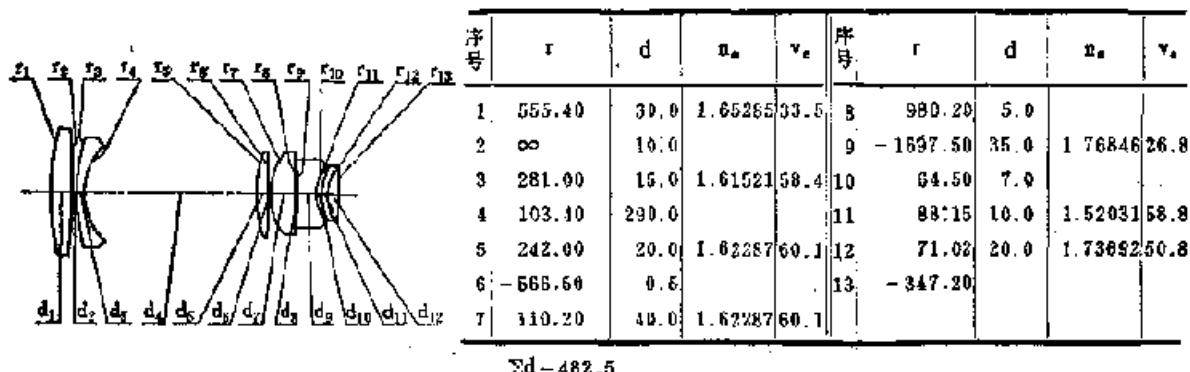
	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	Hf	QP(1 ω)
	0.0072	-0.033	0.025	0.0035	-0.13	6.24	-3.96%
b 或 $\eta\%$	LA'	$\Delta H'$	x_t	x_a'	$x_t' - x_a'$	K_{T_A}	$K_{T_{0.7}}$
100	0.0069	-0.24	0.068	-0.011	0.079	-1.73	-0.017
70	-0.022	-0.12	-0.28	-0.089	-0.19	-0.18	-0.039



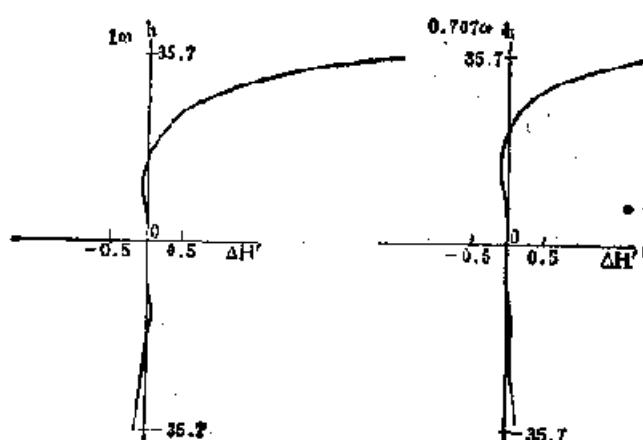
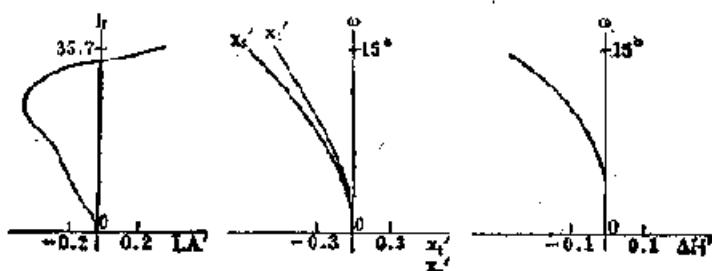
编号: 01-00-053

具有负前组与多镜片正后组的放映物镜

E. F. L = 100 B. F. L = 87.22 FNo. = 1.4 F. A. = 30° Lp' = 290



	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	Hf	QP(10)
	-0.33	-0.092	0.029	-0.25	-0.17	26.92	-0.98%
h 或 φ%	LA'	ΔII'	x ₁ '	x ₂ '	x ₁ '-x ₂ '	K _{T1} '	K _{T6.7} '
100	0.35	-0.26	-0.65	-0.87	0.21	1.72	0.15
70	-0.41	-0.093	-0.36	-0.46	0.096	0.95	0.060



编号: 01-00-054

具有负前组与多镜片正后组的放映物镜

E. F. L = 100

B. F. L = 87.20

F No. = 1.4

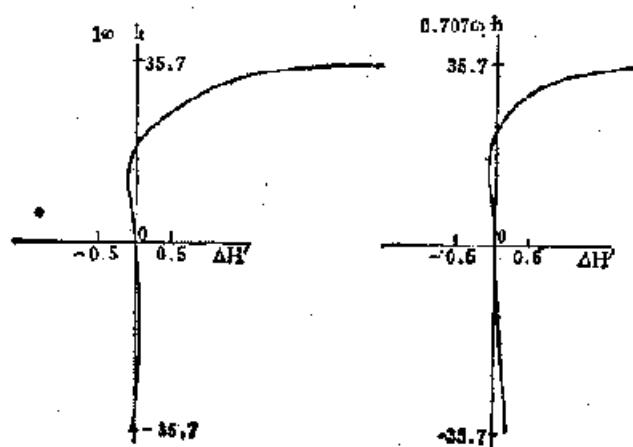
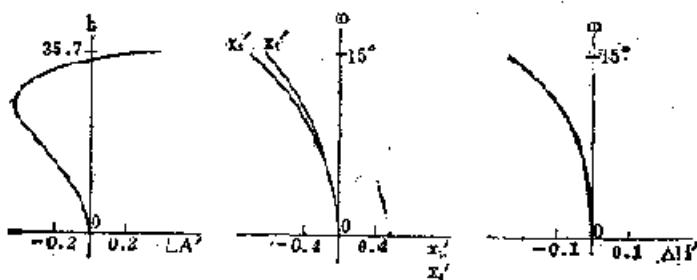
F. A. = 30°

Lp₄' = 296

序号	x	d	u_e	v_e	序号	x	d	u_e	v_e
1	598.90	30.0	1.70442	34.7	8	980.20	6.0		
2	∞	10.0			9	-1697.50	35.0	1.76846	26.8
3	285.00	15.0	1.62287	60.1	10	64.50	7.0		
4	104.00	290.0			11	88.15	10.0	1.52031	58.8
5	242.00	20.0	1.62287	60.1	12	71.02	20.0	1.73692	50.8
6	-566.50	0.5			13	-347.20			
7	110.20	40.0	1.62287	60.1					

$\Sigma d = 482.5$

	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	H'	QP (1m)
	-0.36	-0.082	0.015	-0.25	-0.16	26.75	-0.91%
h 或 ϕ %	LA'	$\Delta H'$	x_t'	x_s'	$x_e' - x_s'$	K_t'	$K_{t0.7}'$
100	0.38	-0.24	-0.81	-0.91	0.099	1.68	0.19
70	-0.48	-0.088	-0.43	-0.47	0.039	1.05	0.085



编号: 01-00-055

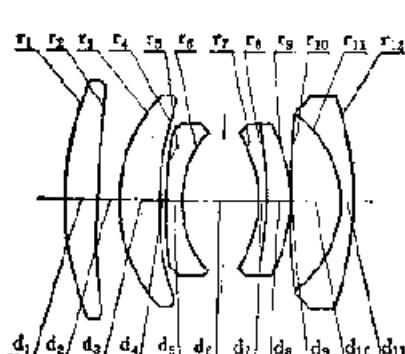
四组元摄影物镜

E. F. L = 1.0

B. F. L = 0.55

FNo. = 1.4

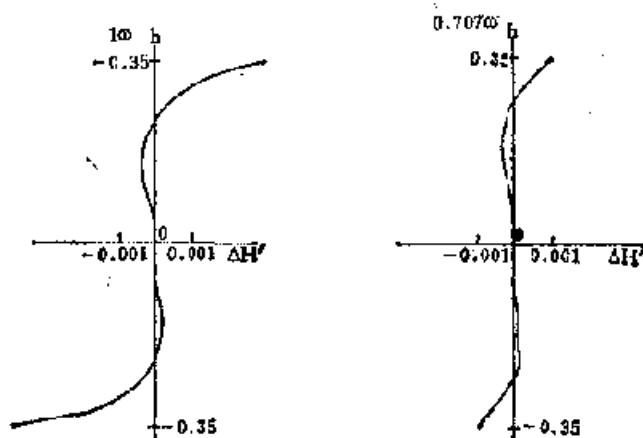
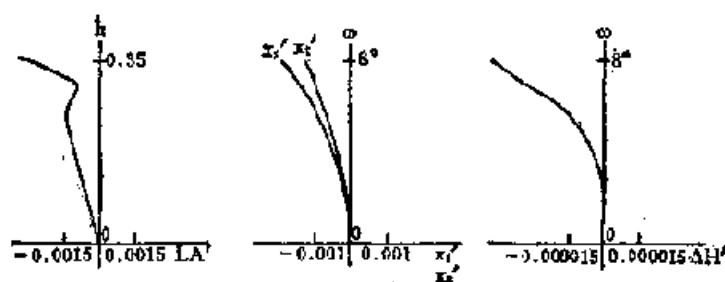
F. A. = 16°



序号	1/r	d	n _o	v _o	序号	1/r	d	n _o	v _o
1	1.2502	0.1022	1.7319	47.2	7	-2.7105	0.0232	1.7731	29.3
2	0.3569	0.0572			8	-0.6471	0.0676	1.7319	47.2
3	2.3802	0.1124	1.7319	47.2	9	-2.0842	0.0019		
4	1.1574	0.0145			10	0.6306	0.1352	1.7479	44.7
5	0.8644	0.0469	1.7685	26.8	11	-3.3400	0.0483	1.7205	48.0
6	3.4861	0.2125*			12	-1.0454			

$$0.2125^* = 0.1000 + 0.1125$$

	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	HI	QP(10)
	-0.0019	-0.000037	0.000088	-0.00061	-0.000018	0.14	-0.033%
h 或 ω %	LA'	$\Delta H'$	x_t'	x_s'	$x_t' - x_s'$	K_{T1}	$K_{T2,7}$
100	-0.0032	-0.000017	-0.0013	-0.0019	0.00068	-0.00029	-0.000076
70	-0.0014*	-0.000013	-0.00068	-0.0010	0.00035	0.00014	-0.000054



编号: 01-00-056

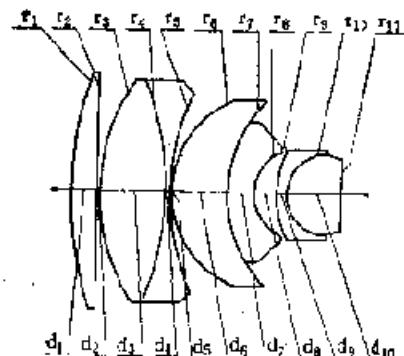
大孔径摄影镜头

E. F. L=100

B. F. L=7.12

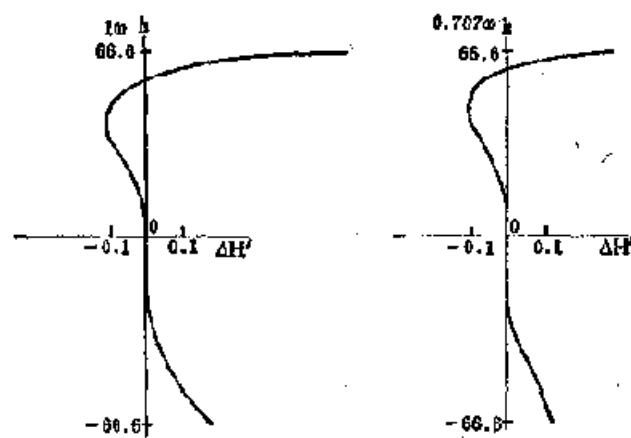
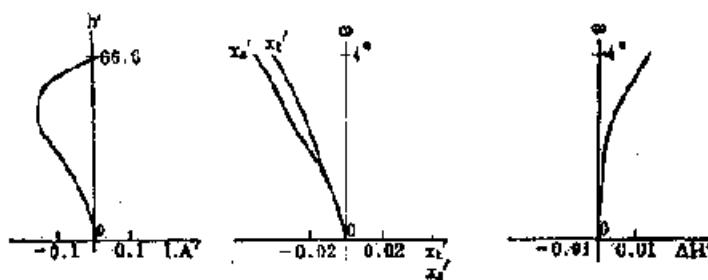
FNo. = 0.75

F. A. = 8°



序号	r	d	n	v	序号	r	d	n	v
1	206.0	14.5	1.6940	54.6	7	71.7	14.50	1.7343	28.4
2	830.0	0.2			8	34.19	13.42		
3	98.95	36.4	1.6723	44.7	9	57.5	5.44	1.6241	36.1
4	-105.4	2.43	1.7343	28.4	10	21.70	30.0	1.7922	50.2
5	130.0	0.2			11	∞			
6	52.40	30.7	1.6940	54.6					

	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	Hf	QP(1ω)
	-0.47	-0.084	0.00083	-0.053	0.018	7	0.18%
h 或 ω %	1.8'	ΔH'	x_1'	x_2'	$x_3'-x_4'$	K_{f1}	$K_{f5.7}$
100	0.016	0.013	-0.040	-0.050	0.0088	0.36	-0.025
70	-0.16	0.0048	-0.024	-0.027	0.0030	0.20	0.025



编号: 01-00-057

六分离广角物镜

E. F. L = 100

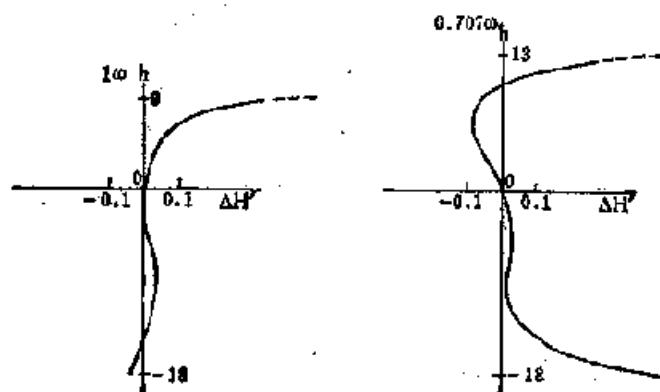
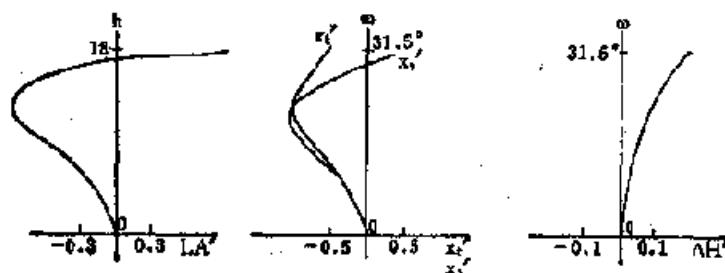
B. F. L = 103.11

FNo. = 2.8

F. A. = 63°

序号	r	c	n _d	v _d	序号	r	d	n _d	v _d
1	199.30	6.00	1.45456	55.79	7	-175.00	3.25	1.73470	26.10
2	47.20	37.68			8	44.17	5.46		
3	78.38	13.38	1.70180	41.14	9	398.04	6.28	1.58900	48.64
4	183.65	0.95			10	-98.30	4.15		
5	40.32	5.32	1.61720	54.04	11	-84.60	7.45	1.72000	50.31
6	68.77	8.19			12	-47.39			

	ΣS ₁	ΣS ₂	ΣS ₃	ΣS ₄	ΣS ₅	HI	QP(10)
	-0.18	-0.12	-0.0090	-0.21	-0.16	61.35	0.30%
h 或 φ%	LA'	ΔH'	x _t	x _s '	x _t ' - x _t	K _{rt}	K _{T0.7}
100	0.91	0.19	-3.58	0.25	-0.83	4.59	0.69
70	-0.90	-0.088	-1.07	-1.09	0.018	2.03	0.15



编号: 01-00-058

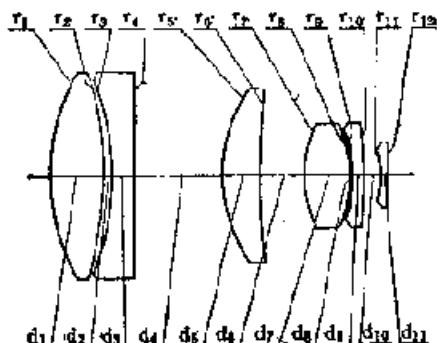
六片式珀兹伐型放映镜头

E. F. L = 100

B. F. L = 9.8

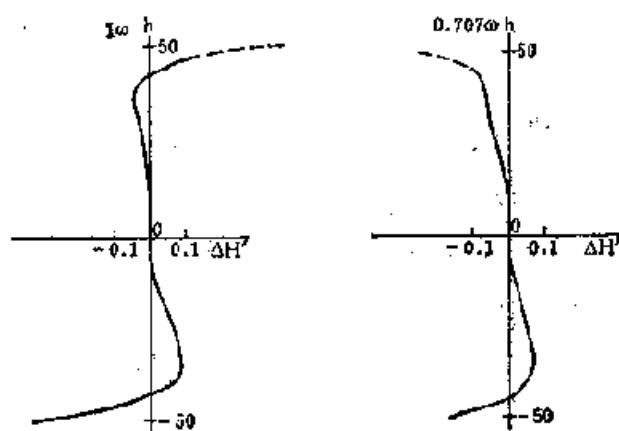
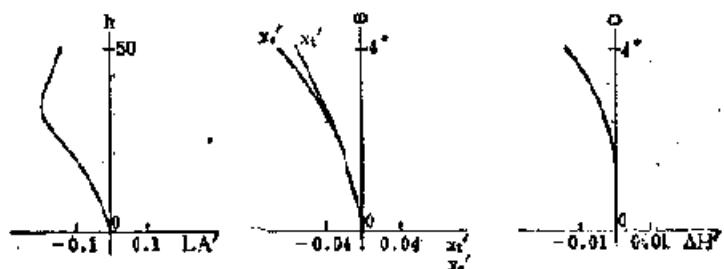
FNo. = 1.0

F. A. = 8°



序号	r	d	nD	v	序号	r	d	nD	v
1	111.4	28.0	1.517	64.5	7	64.6	25.8	1.620	60.3
2	-180.8	4.9			8	-69.1	0.17		
3	136.0	13.3	1.720	20.3	9	-66.5	6.6	1.720	29.3
4	3240	48.1			10	-390	9.4		
5	76.6	22.4	1.538	61.2	11	-73.0	3.0	1.689	30.9
6	433.0	24.9			12	168.0			

	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	HI	QP(1ω)
	-0.33	0.038	0.0019	-0.047	-0.013	7	-0.19%
h 或 ω %	LA'	$\Delta H'$	x_t'	x_s'	$x_t' - x_s'$	K_{t1}	$K_{t0.7}$
100	-0.14	-0.013	-0.078	-0.090	0.012	6.93	0.012
70	-0.19	-0.0048	-0.040	-0.045	0.0050	0.56	0.0067



编号: 01-00-059

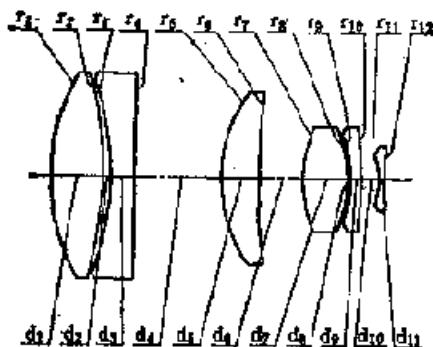
六片式珀兹伐型放映镜头

E. F. L = 100

B. F. L = 11.5

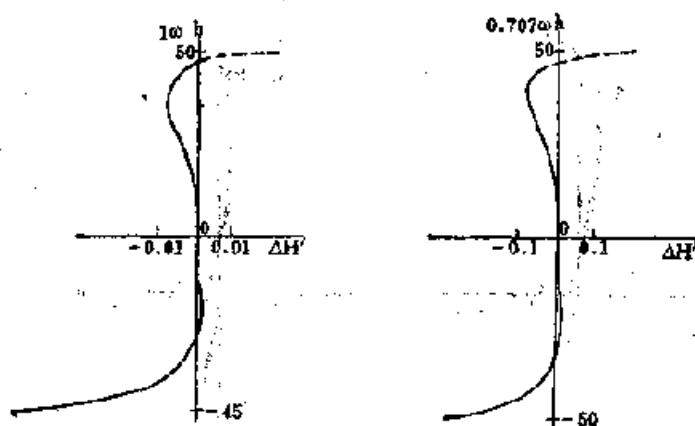
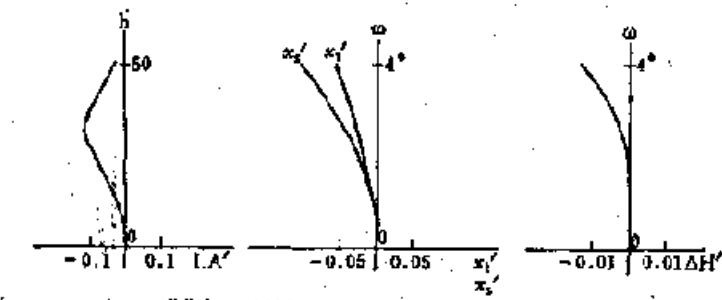
FNo. = 1.0

F. A. = 8°



序号	r	d	n _D	v	序号	r	d	n _D	v
1	111.4	26.0	1.517	64.5	7	64.6	25.8	1.620	60.3
2	-180.8	4.9			8	-69.1	0.17		
3	-136.0	13.3	1.720	29.3	9	-66.5	5.6	1.720	29.3
4	3240	48.1			10	-231	9.4		
5	76.6	22.4	1.588	61.2	11	-73.0	3.0	1.689	30.9
6	289	24.9			12	344			

	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	HI	QP(1ω)
	-0.24	-0.0069	0.012	-0.068	-0.013	7	-0.19%
h 或 ω %	LA'	ΔH'	x ₁ '	x ₁ '	x ₁ ' - x ₃ '	K _T	K _{T0.7}
100	-0.044	-0.013	-0.052	-0.10	0.054	7.45	-0.062
70	-0.11	-0.0047	-0.027	-0.053	0.026	7.87	-0.045



编号: 01-00-060

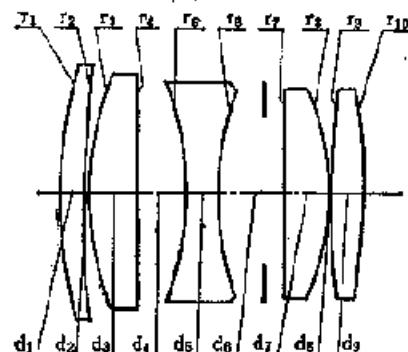
五组元物镜

E.F.L = 100

B.F.L = 68.51

FNo. = 1.8

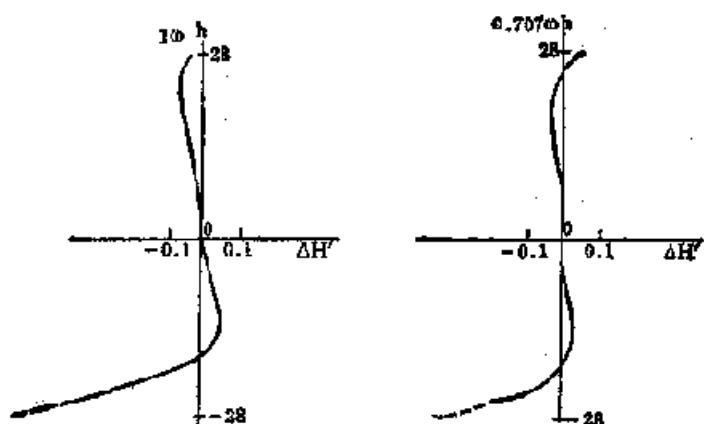
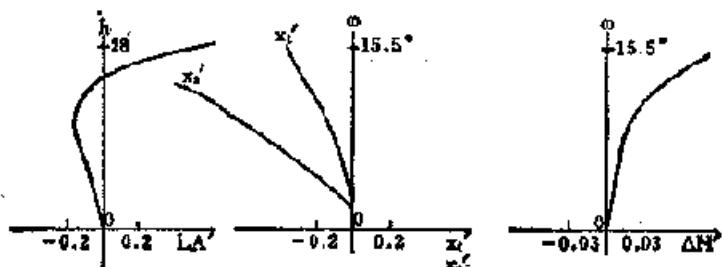
F.A. = 31°



序号	r	d	n	v	序号	r	d	n	v
1	146.14	7.87	1.6570	60.9	6	81.69	13.86*		
2	350.39	0.79			7	-900.00	12.60	1.6570	57.2
3	78.98	13.38	1.6570	50.9	8	-68.50	0.16		
4	-792.12	13.94			9	218.98	9.45	1.6200	60.9
5	-81.69	8.98	1.7200	29.3	10	-166.14			

$$13.86^* = 9.45 + 4.41$$

	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	HI	QP(1 ω)
	-0.12	0.046	0.081	-0.35	0.038	27.72	0.36%
h 或 ω %	LA'	$\Delta H'$	x_t'	x_s'	$x_t' - x_s'$	K_{T1}	$K_{T0.7}$
100	0.61	0.10	-0.38	-1.35	0.96	-0.72	-0.054
70	-0.12	0.026	-0.20	-0.77	0.66	-0.40	-0.010



编号: 01-00-061

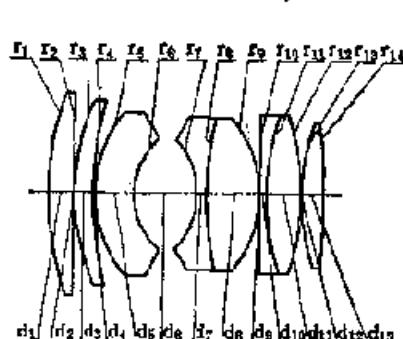
高速摄影机物镜

E. F. L = 100

B. F. L = 60.58

FNo. = 0.85

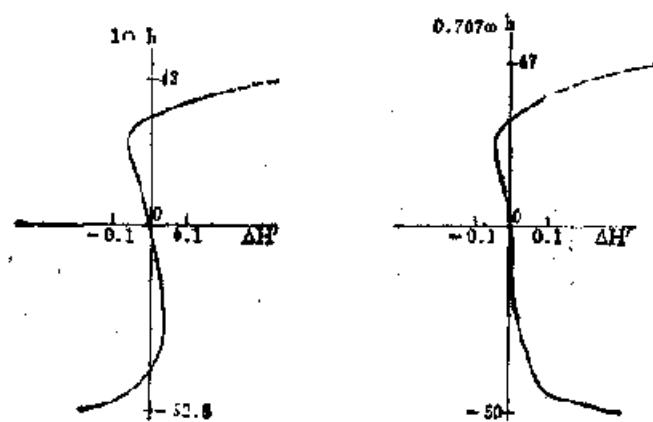
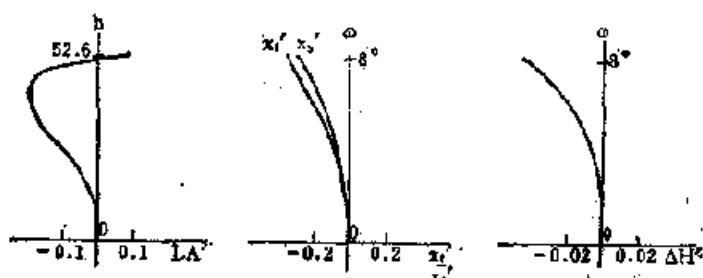
F. A. = 16°



序号	r	d	ED	v _n	序号	r	d	ED	v _n
1	146.36	12.18	1.6200	60.3	8	203.10	28.42	1.7200	59.3
2	600.13	0.43			9	-61.98	0.41		
3	106.73	12.18	1.6200	60.3	10	-915.62	4.11	1.5900	39.2
4	263.48	0.41			11	132.13	18.27	1.6910	54.8
5	62.10	21.11	1.8410	28.1	12	-132.13	0.41		
6	36.36	35.53			13	116.00	12.18	1.6810	54.8
7	-41.54	5.08	1.7410	28.1	14	-406.86			

$$\sum d = 150.70$$

	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	HI	QP(1ω)
	-0.24	-0.053	-0.0058	-0.15	-0.044	14.09	-0.30%
h 或 ω %	LA'	AH'	x _t '	x _b '	x _t '-x _b '	K ₁	K _{T0.7}
100	0.067	-0.043	-0.35	-0.29	-0.055	1.98	0.096
70	-0.17	-0.015	-0.16	-0.14	-0.021	1.50	0.096



编号: 01-00-062

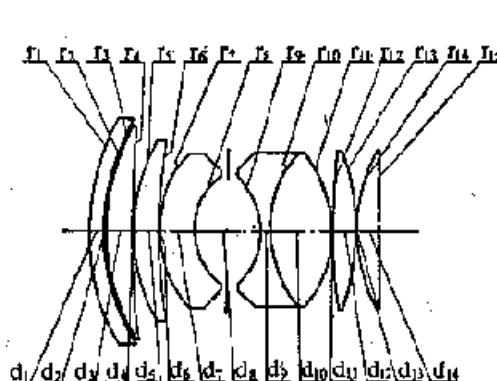
七组元高速摄影机镜头

E. F. L = 100

B. F. L = 60.64

FNo. = 0.95

F. A. = 16°

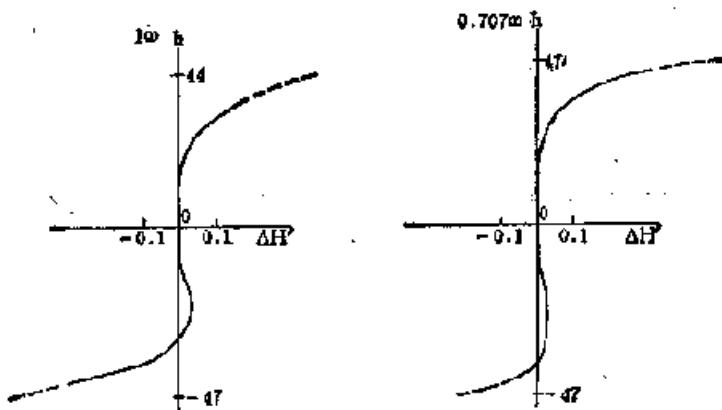
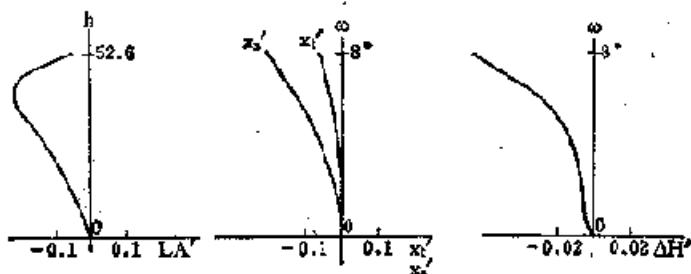


序号	r	d	n _o	v _o	序号	r	d	n _o	v _o
1	159.55	16.35	1.62237	60.1	9	-59.25	4.48	1.73346	26.8
2	3663.75	0.19			10	478.43	28.42	1.71615	53.7
3	229.09	10.32	1.66103	57.1	11	-57.62	0.19		
4	607.77	6.23			12	317.71	17.52	1.59142	61.0
5	∞	8.37	1.58482	40.6	13	-116.05	0.19		
6	597.28	0.19			14	94.60	16.35	1.69400	54.6
7	57.82	20.05	1.79180	25.9	15	509.65			
8	39.05	36.21*							

$$\Sigma d = 155.06$$

$$36.21^* = 18.00 + 18.21$$

	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	H1	QF(1ω)
	-0.35	0.047	0.045	-0.16	-0.068	14.05	-0.47%
h 或 ω%	J.A'	ΔH'	x _t	x _s	x _t ' - x _s	K _{T1}	K _{T0.7}
100	-0.047	-0.066	-0.061	-0.21	0.148	0.34	0.080
70	-0.21	-0.023	-0.028	-0.16	0.079	0.29	0.057



编号: 01-00-063

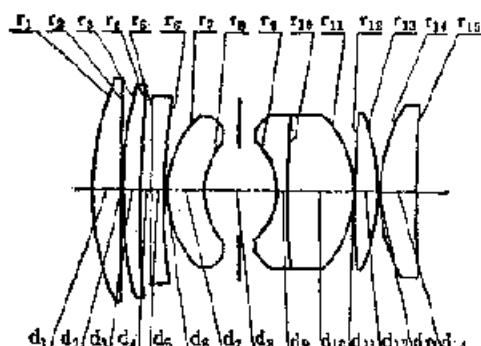
七组元高速摄影机镜头

E. F. L = 100

B. F. L = 57.28

FNo. = 0.95

F. A. = 16°

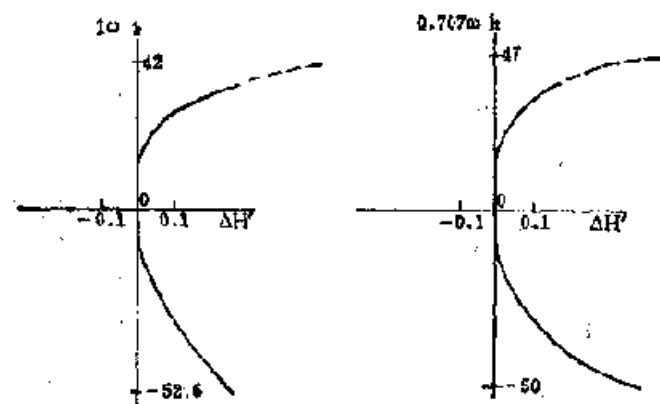
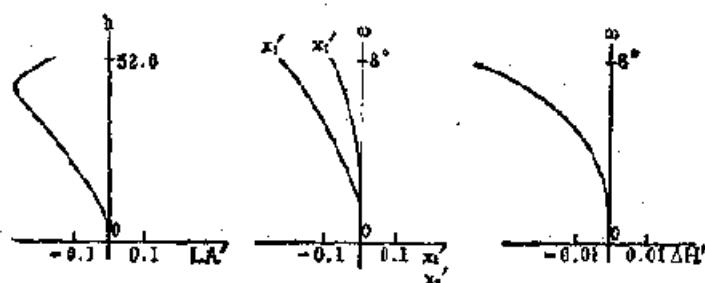


序号	r	d	n _g	v _g	序号	r	d	n _g	v _g
1	142.76	8.72	1.67245	44.7	9	-44.42	6.30	1.74703	27.8
2	190.17	0.44			10	71.19	37.93	1.73692	50.8
3	139.32	17.44	1.62541	56.6	11	-71.19	0.44		
4	540.20	0.44			12	399.00	13.08	1.71615	53.7
5	114.51	15.69	1.62287	60.1	13	-149.56	0.44		
6	282.81	0.44			14	94.84	15.69	1.71615	53.7
7	66.70	20.92	1.74703	27.8	15	640.26			
8	39.28	40.54*							

$$\Sigma d = 178.31$$

$$40.54^* = 20.00 + 20.54$$

	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	HI	QP(1 α)
	-0.26	0.070	0.043	-0.17	-0.041	14.05	-0.26%
h 或 $\omega\%$	LA'	$\Delta H'$	x_1'	x_2'	$x_1' - x_2'$	K ₁₁	K _{12,7}
100	-0.15	-0.037	-0.078	-0.22	0.14	1.73	0.21
70	-0.21	-0.013	-0.036	-0.11	0.076	1.05	0.16



编号: 01-00-064

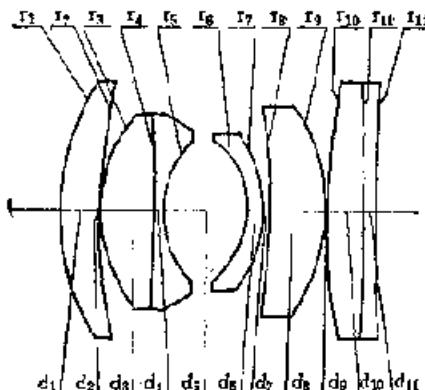
五分离大相对孔径广角摄影物镜

E. F. L=1

B. F. L=0.56

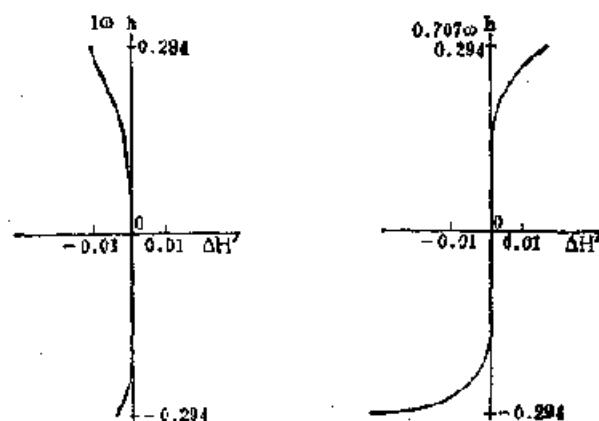
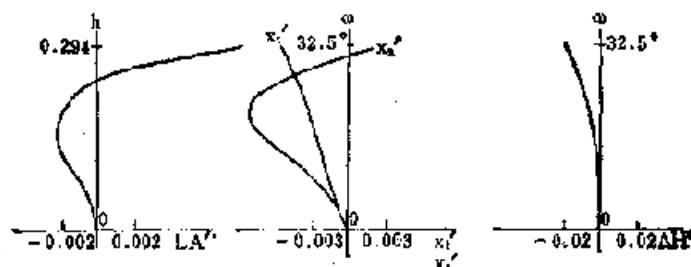
FNo. = 1.7

F. A. = 65°



序号	r	d	n _d	v _d	序号	r	d	n _d	v _d
1	0.6329	0.1056	1.6937	53.5	7	-0.3000	0.0155		
2	1.5181	0.0023			8	-1.8252	0.1554	1.8038	45.8
3	0.4086	0.1414	1.6519	58.3	9	-0.4800	0.0010		
4	-4.692	0.0264	1.6131	37.0	10	1.9557	0.0948	1.6424	53.1
5	0.2548	0.2563			11	-3.0997	0.0365	1.7400	28.2
6	-0.2673	0.0451	1.7676	26.5	12	6.0439			

	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	HI	QPD(Φ)
	-0.0023	0.00058	0.00082	-0.0058	-0.0040	0.63	~3.05%
h 或 Φ %	LA'	ΔH'	x _t '	x _t	x _t ' - x _t	K ₁	K _{10.7}
100	0.0084	-0.019	-0.0054	0.0017	-0.0072	-0.0076	-0.0030
70	-0.0018	-0.0049	-0.0038	-0.0077	0.0039	-0.0079	-0.00015



编号: 01-00-065

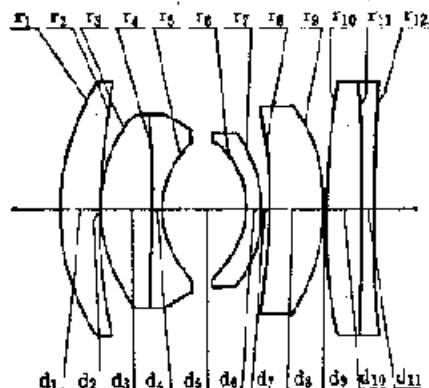
五分离大相对孔径广角摄影物镜

E. F. L=1

B. F. L=0.55

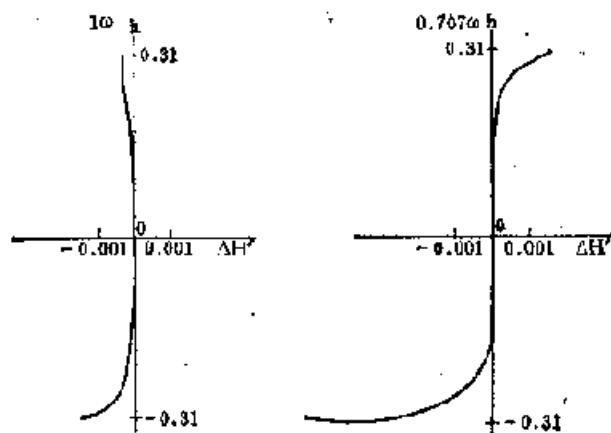
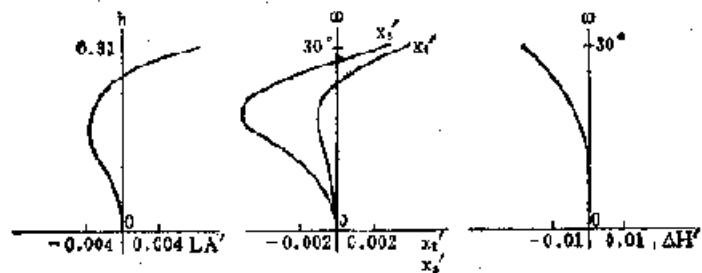
FNo. = 1.6

F. A. = 60°



序号	r	d	n _λ	v _λ	序号	r	d	n _λ	v _λ
1	0.6208	0.1038	1.7333	51.0	7	-0.3573	0.0021		
2	1.3803	0.0014			8	-1.9632	0.1849	1.8038	46.8
3	0.4197	0.1438	1.6775	55.5	9	-0.4874	0.0021		
4	-5.0461	0.0277	1.6364	35.4	10	1.8744	0.0945	1.8424	68.1
5	0.2588	0.2550			11	-3.1115	0.0363	1.7400	28.2
6	-0.2653	0.0450	1.8055	25.5	12	5.5331			

	ΣS ₁	ΣS ₂	ΣS ₃	ΣS ₄	ΣS ₅	HI	QP(1φ)
	-0.0033	0.00011	0.0010	0.0050	-0.0048	0.57	-3.15%
h 或 ω %	LA'	ΔH'	x _t	x _s '	x _t '-x _s	K _{T1}	K _{Tc.7}
100	0.0083	-0.018	0.0040	0.0025	0.0015	-0.0080	-0.0017
70	-0.0028	-0.0047	-0.0011	-0.0055	0.0044	-0.021	-0.0032



编号: 01-00-066

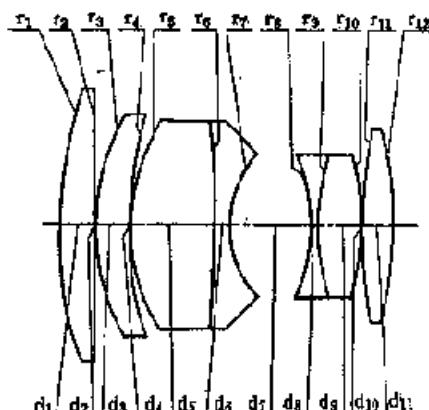
扩展的高斯型大孔径物镜

E. F. L = 100

B. F. L = 41.21

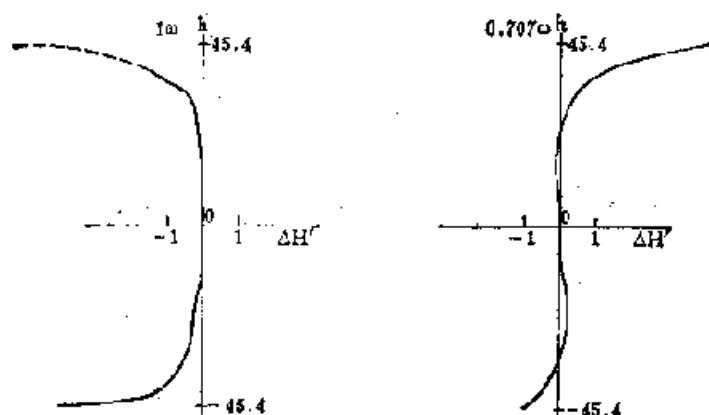
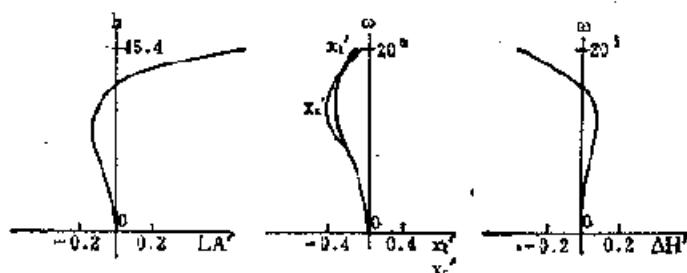
FNo. = 1.1

F.A. = 40°



序号	r	d	n _d	v _d	序号	r	d	n _d	v _d
1	111.5	9.515	1.7201	50.3	7	28.0	22.235		
2	352.6	0.1			8	-44.4	1.8	1.5481	45.9
3	65.7	8.545	1.7342	51.0	9	80.8	11.36	1.7440	44.9
4	104.1	0.97			10	-75.4	0.1		
5	52.4	22.8	1.6422	58.1	11	150.4	7.96	1.7342	51.0
6	-329.1	4.175	1.7184	29.5	12	-106.5			

	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	H1	QP(100)
	-0.33	0.078	-0.046	-0.63	0.48	36.39	-0.99%
h 或 w %	LA'	$\Delta H'$	x_e'	x_e	$x_e' - x_e$	K _{H1}	K _{Hn.7}
100	0.72	-0.36	-0.17	-0.015	-0.15	-10.78	-0.35
70	-0.13	0.058	-0.10	-0.47	0.064	1.59	0.20



编号: 01-00-067

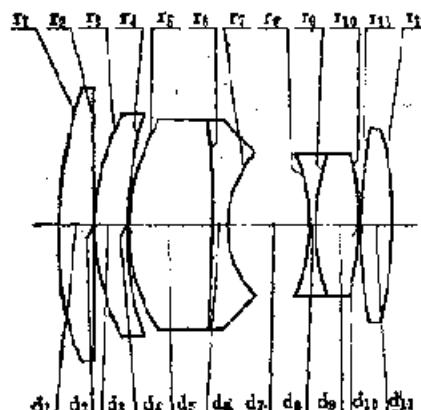
扩展的高斯型大孔径物镜

E.F.L=100

B.F.L=40.08

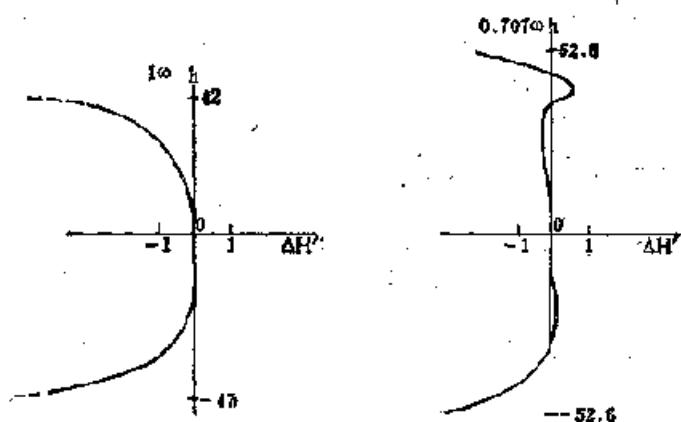
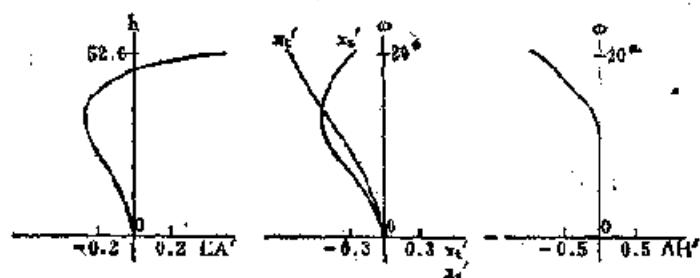
FNo. = 0.95

F.A. = 40°



序号	r	d	n _d	v _d	序号	r	d	n _d	v _d
1	136.1	10.175	1.7550	53.3	7	29.8	24.6		
2	482.9	0.2			8	-41.1	1.73	1.5235	50.6
3	69.8	9.31	1.7685	50.45	9	82.0	10.57	1.7440	44.9
4	105.6	0.93			10	-71.4	0.2		
5	58.1	25.13	1.6516	58.5	11	136.3	8.24	1.7550	53.3
6	-215.7	4.12	1.7215	29.3	12	-105.6			

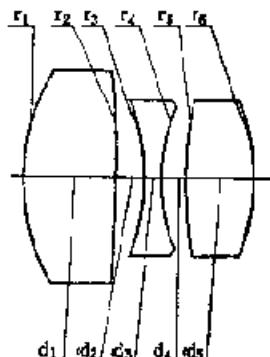
	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	HT	QP(1 ω)
	-0.66	0.042	-0.090	-0.68	0.23	36.43	-2.74%
h或 ω %	LA'	$\Delta H'$	x_t'	x_s'	$x_t' - x_s'$	K ₁₁	K _{T0.7}
100	0.50	-0.99	-0.77	-0.26	-0.50	-39.54	-1.95
70	-0.27	-0.11	-0.55	-0.55	-0.0031	-2.43	-0.15



编号: 01-00-068

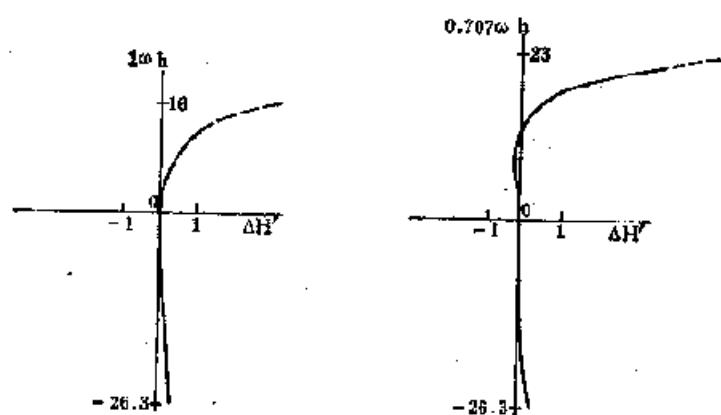
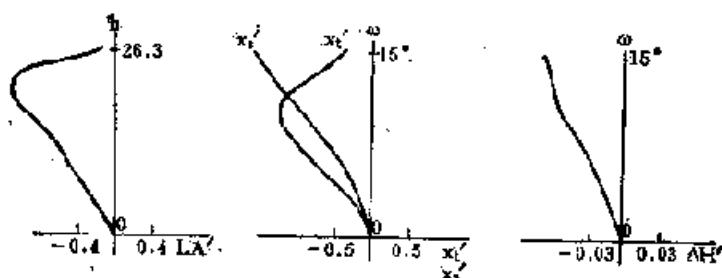
柯克三片型摄影物镜

E. F. L=100 B. F. L=71 FNo. = 1.9 F.A. = $\pm 15^\circ$ $L_p = -22.0$



序号	r	d	n _D	v	序号	r	d	n _D	v
		22.0*							
1	57.4	25.5	1.70	56.0	4	48.6	6.6		
2	-351.0	7.7			5	119.0	19.7	1.70	56.0
3	-63.3	4.5	1.67	32.0	6	-53.5			

	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	HI	QP(1ω)
	-0.46	-0.26	-0.11	-0.22	-0.11	26.37	-0.25%
b 或 ω %	LA'	$\Delta H'$	x_1'	x_4'	$x_4' - x_1'$	K _{T1}	K _{T0.7}
100	-0.23	-0.068	-0.40	-1.63	1.23	4.80	3.94
70	-1.19	-0.054	-1.32	-1.05	-0.26	5.69	0.62



编号: 01-00-069

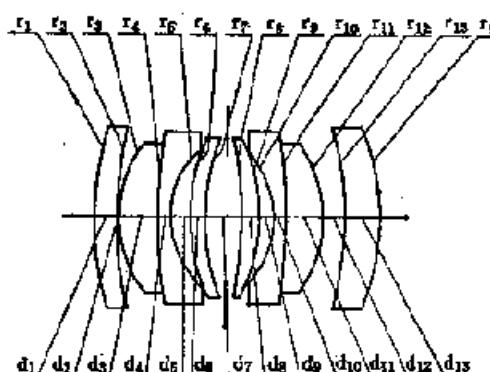
八片式对称式摄影物镜

E.F. L = 100

B.F. L = 69.09

FNo. = 2.0

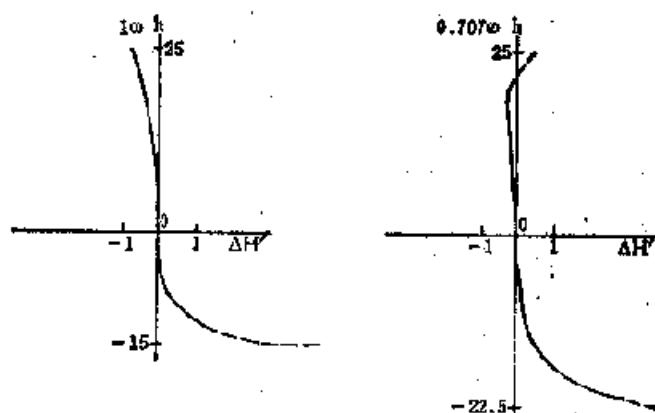
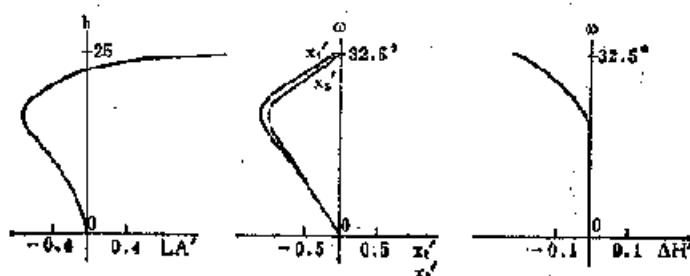
F.A. = 65°



序号	r	d	n _D	v _D	序号	r	d	n _D	v _D
1	83.93	6.90	1.7200	42.0	8	-113.48	4.41	1.6910	54.8
2	117.03	0.08			9	-50.32	3.94		
3	32.11	10.40	1.7200	47.5	10	-25.32	2.99	1.6680	32.3
4	117.76	2.99	1.6490	33.8	11	-182.00	10.40	1.7200	47.5
5	23.64	5.40			12	-83.38	5.99		
6	47.36	4.41	1.6510	54.8	13	-84.72	8.90	1.7440	45.6
7	58.32	10.01*			14	-62.06			

$$10.01^* = 5.91 + 4.10$$

	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	HI	QP(10)
	-0.36	-0.072	0.061	-0.40	0.016	63.71	-0.34%
h 或 ϕ %	LA'	$\Delta H'$	x_t'	x_s'	$x_t' - x_s'$	K_{t1}	$K_{t0.7}$
100	1.54	-0.22	-0.14	-0.032	-0.11	-40.07	3.95
70	-0.70	-0.023	-1.12	-1.01	-0.11	-28.85	0.39



编号: 01-00-070

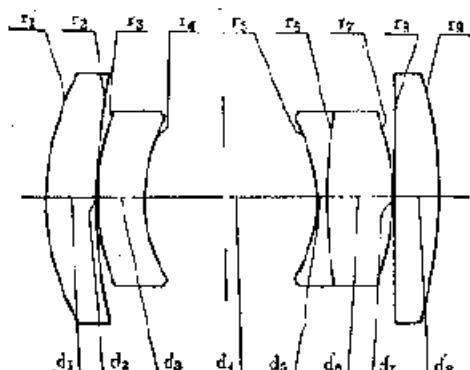
改进的四组元高斯放映物镜

E. F. L = 100

B. F. L = 71.28

FNo. = 2.8

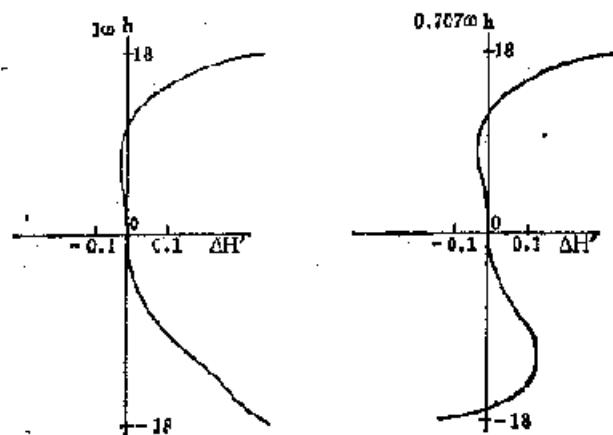
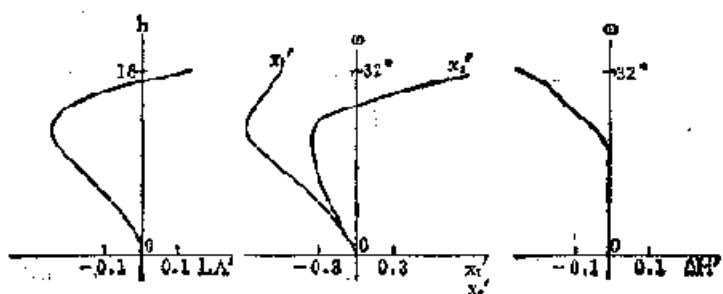
F.A. = 84°



序号	r	d	n _D	v _D	序号	r	d	n _D	v _D
1	33.14	7.43	1.6200	50.3	6	72.28	9.06	1.7200	47.5
2	83.45	0.14			7	-90.80	0.14		
3	29.71	6.29	1.7506	27.8	8	-131.43	6.03	1.7506	27.8
4	20.74	24.06*			9	-59.45			
5	22.06	1.43	1.7200	29.3					

$$24.06^* = 12.03 + 12.03$$

	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	HI	QP(1ω)
	-0.063	0.029	-0.027	-0.11	0.024	62.45	-0.41%
h 或 ω %	LA'	ΔH'	x'_1	x'_3	x'_t - x'_s	K'_T1	K'_{T0.1}
100	0.13	-0.25	-0.67	0.91	-1.58	0.38	0.13
70	0.25	-0.036	-0.95	-0.43	-0.51	0.11	0.071



编号: 01-00-071

具有负前组及多镜片正组的广角物镜

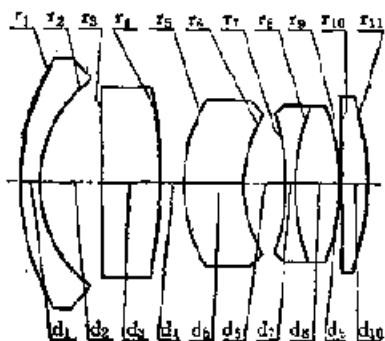
E. F. L = 100

B. F. L = 105.2

FNo. = 2.8

F.A. = 63°

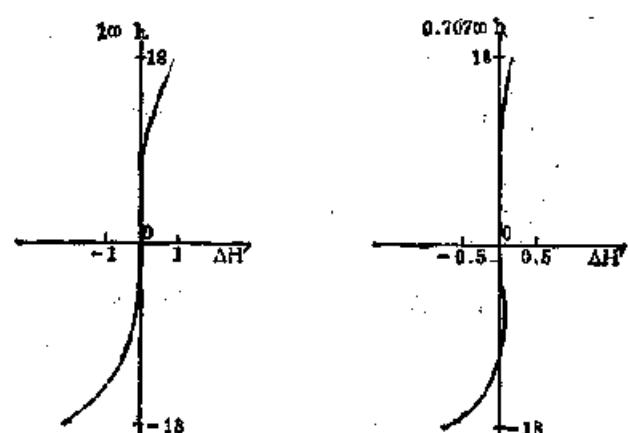
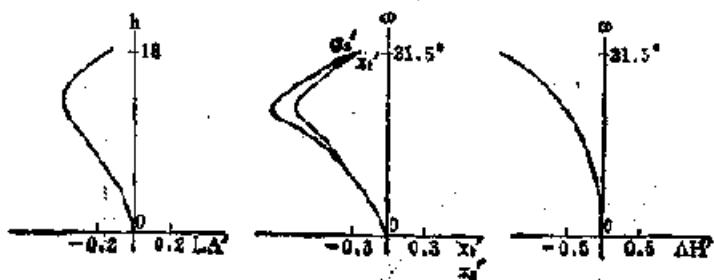
$L_{p_6}' = 3$



序号	r	d	n _g	v	序号	r	d	n _g	v
1	67.56	5.62	1.47236	67.10	7	-59.14	2.25	1.62410	36.10
2	35.23	16.87			8	51.90	12.65	1.62287	60.06
3	-954.17	16.59	1.69660	53.18	9	-51.90	0.28		
4	-133.68	7.03			10	-478.21	7.03	1.69400	54.60
5	43.89	16.87	1.74793	44.65	11	-82.57			
6	39.19	11.25							

$\Sigma d = 96.44$

	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	HI	QP(1φ)
	-0.089	0.027	0.011	-0.18	-0.45	61.28	-2.29%
h 或 φ%	$\Delta A'$	$\Delta H'$	x_t'	x_s'	$x_t' - x_s'$	K_{T1}	$K_{T0.7}$
100	-0.13	-1.40	-0.24	-0.23	-0.014	-0.65	-0.21
70	-0.40	-0.52	-0.72	0.94	0.22	-0.34	-0.040



编号: 01-00-072

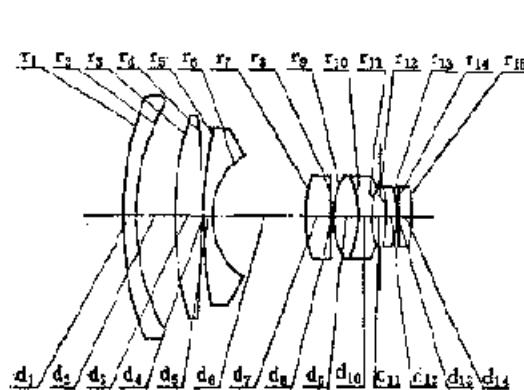
具有负前组及多镜片正组的广角物镜

E. F. L = 100

B. F. L = 146.58

FNo. = 2.8

F. A. = 80°

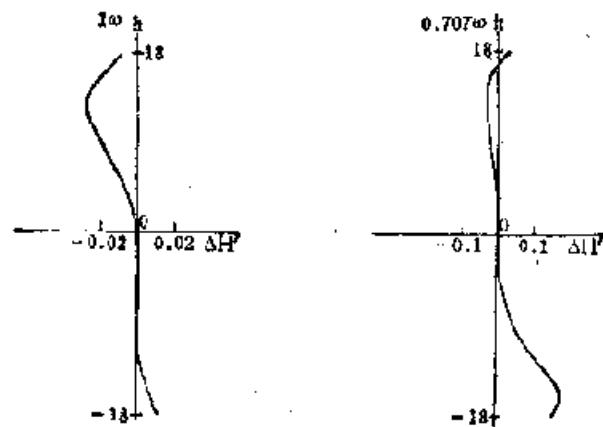
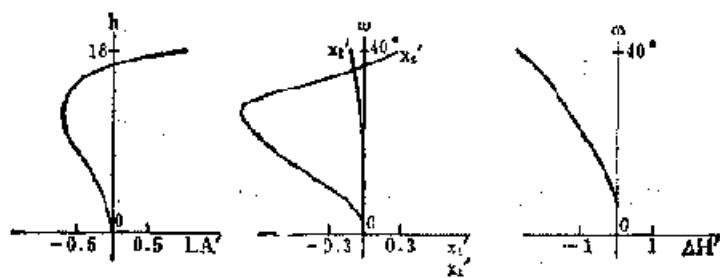


序号	r	d	n _g	v	序号	r	d	n _g	v
1	266.77	9.81	1.51871	63.96	9	67.32	15.69	1.55440	63.22
2	121.58	31.38			10	-120.52	13.73	1.72732	29.07
3	286.39	23.54	1.72823	37.81	11	62.14	11.77*		
4	-1006.28	0.39			12	-127.78	9.81	1.62287	60.06
5	430.21	7.58	1.62287	60.06	13	80.54	0.39		
6	59.63	76.50			14	366.69	9.81	1.62287	60.06
7	129.11	23.54	1.74703	27.82	15	-144.88			
8	∞	2.75							

$\Sigma d = 236.96$

$11.77^* = 0.00 + 5.77$

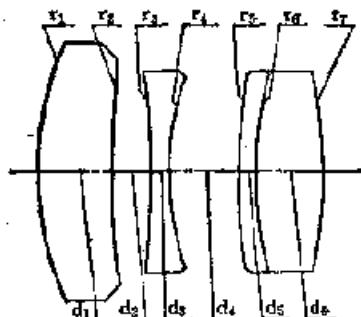
	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	H1	QP(1Ω)
	-0.16	0.068	0.012	-0.21	-1.11	83.88	-3.42%
h 或 w %	LA'	AH'	x ₁ '	x ₂ '	x ₃ '-x ₂ '	K _{H1}	K _{QP}
100	1.04	-2.86	-0.12	0.25	-0.37	0.0030	-0.0094
70	-0.69	-1.41	-0.064	-1.04	0.97	0.094	0.046



编号: 01-00-073

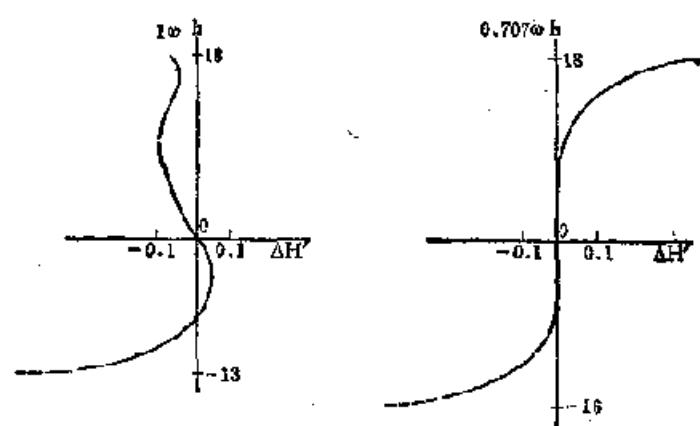
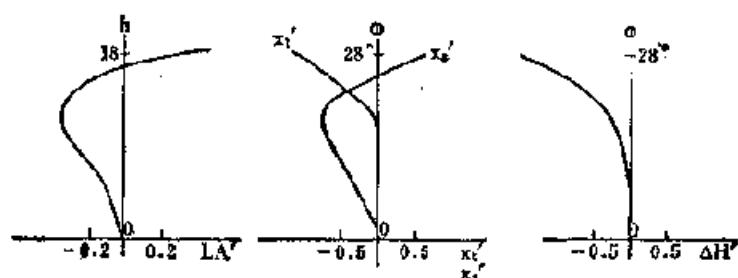
具有一个胶合组的三组元镜头

E. F. L = 100 B. F. L = 79.91 FNo. = 2.8 F. A. = 56° $L_p' = 0.5$



序号	r	d	nD	v	序号	r	d	nD	v
1	39.266	10.52	1.7130	53.89	5	263.753	2.39	1.6261	39.10
2	283.685	5.69			6	50.234	9.49	1.7550	53.28
3	99.940	2.53	1.6236	36.75	7	-69.533			
4	35.715	9.63							

	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	HI	QP(10 ³)
	-0.094	-0.0087	0.040	-0.22	-0.20	53.16	-2.81%
h 值(%)	LA'	$\Delta H'$	x_t'	x_t'	$x_t' - x_s'$	K ₁₁	K _{12,7}
100	0.42	-1.49	-1.21	0.67	-1.88	-0.06	-0.20
70	-0.36	-0.34	-0.14	-0.74	0.59	-0.20	-0.023



编号: 01-00-074

具有一个胶合组的三组元镜头

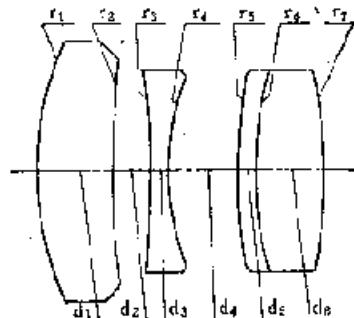
E. F. L=100

B. F. L=82.62

FNo. = 2.8

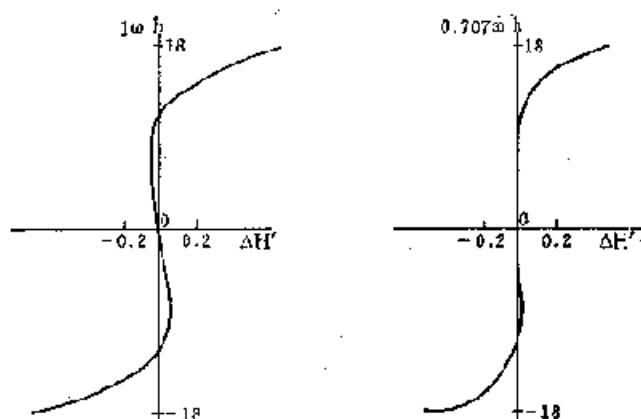
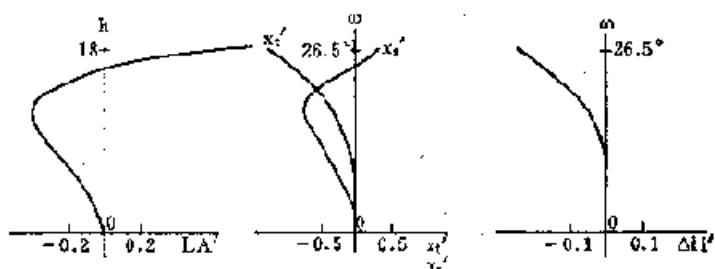
F. A. = 53°

$L_{p4}' = 0.5$



序号	r	d	n _D	v	序号	r	d	n _D	v
1	42.348	8.48	1.7335	51.04	5	∞	2.55	1.6204	37.97
2	895.654	7.25			6	53.647	7.61	1.7440	44.90
3	-72.448	1.97	1.6547	52.87	7	-52.792			
4	39.706	8.95							

	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	HI	QP(1ω)
	-0.11	0.0030	0.032	-0.19	-0.041	49.76	-0.47%
h 或 w %	LA'	ΔH'	x _t '	x _t '	x _t ' x ₆ '	K _{10.1} '	K _{10.7} '
100	0.79	-0.23	-1.21	0.27	-1.492	0.012	0.023
70	-0.39	-0.061	-0.30	-0.72	0.41	-0.0083	-0.0046



编号: 01-00-075

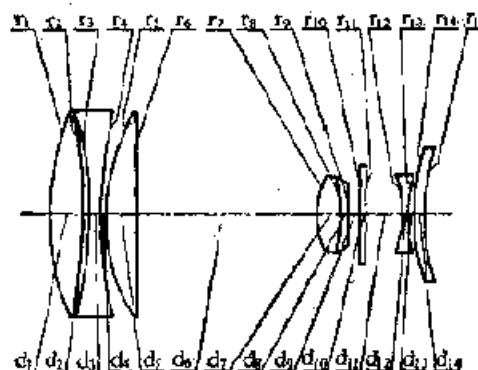
改型珀兹伐镜头

E. F. L=1

B. F. L=0

FNo. = 1.2

F. A. = 12°

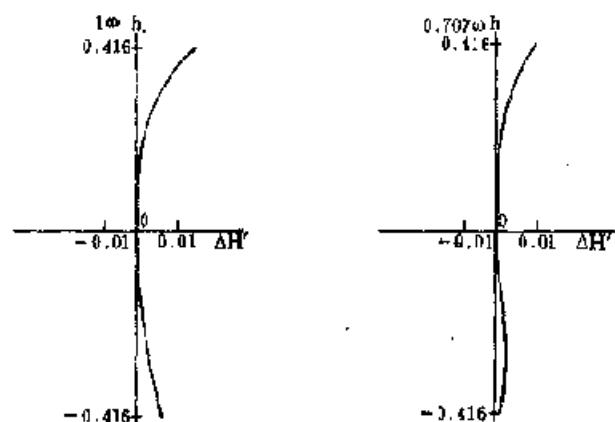
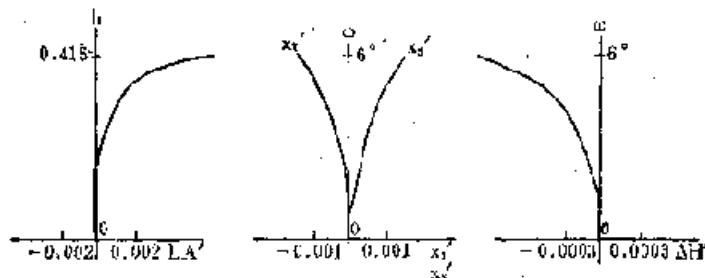


序号	r	d	LR	vE	序号	r	d	uE	vE
1	1.133	0.149	1.605	60.5	9	5.88	0.0516		
2	-2.712	0.030			10	∞	0.030	1.51829	
3	-1.471	0.0489	1.792	25.9	11	∞	0.1585		
4	2.117	0.015			12	-0.433	0.015	1.813	25.3
5	0.869	0.1365	1.623	60.1	13	0.640	0.0212		
6	∞	0.786			14	0.948	0.046	1.51829	
7	0.358	0.103	1.625	58.6	15	0.948 ⁺⁺			
8	0.564	0.0273	1.813	25.3					

⁺ 表示滤色片。

⁺⁺ 表示光阑。

	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	HI	QP(10)
	-0.00014	0.00099	-0.00032	0.00084	-0.00069	0.10	-0.88%
h 或 ω %	LA'	$\Delta H'$	x_t'	x_a	$x_t - x_a$	K _{tr}	K _{tr} 2
100	0.0067	-0.00097	-0.0014	0.0015	-0.0029	0.010	0.0037
70	0.0010	-0.00032	-0.00060	0.00074	-0.0013	0.0051	0.0019



编号: 01-00-076

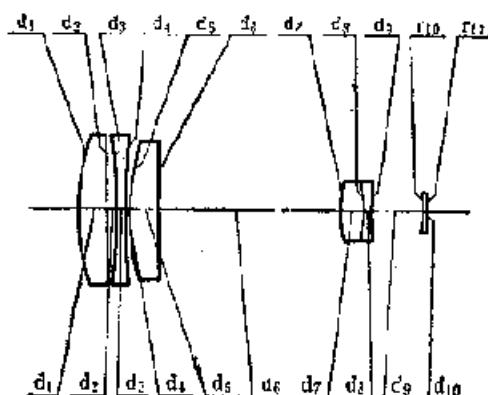
改型珀兹伐镜头

E. F. L = 100

B. F. L = 5.33

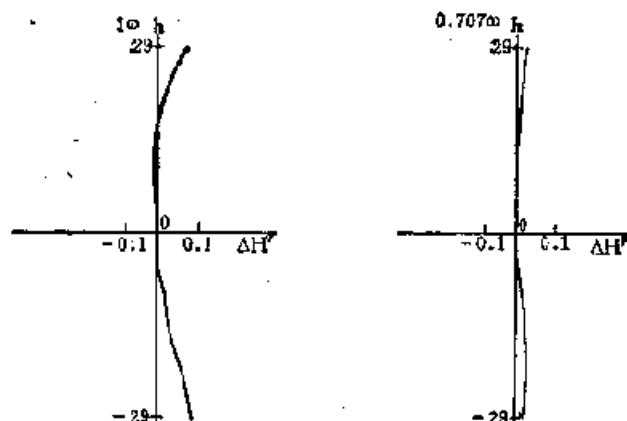
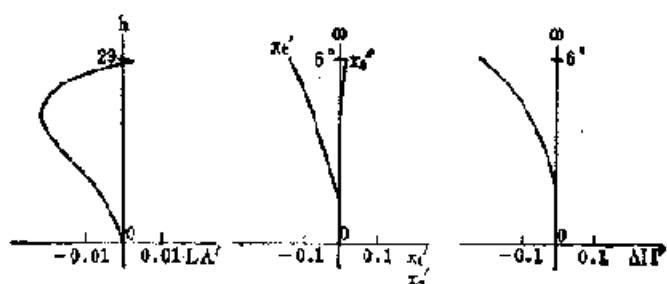
FNo. = 1.7

F. A. = 12°



序号	r	d	n _E	v _E	序号	r	d	n _E	v _E
1	100.2	13.4	1.605	60.4	7	35.65	10.3	1.625	56.6
2	4070.0	4.26			8	-57.7	2.71	1.702	38.3
3	196.2	4.57	1.792	25.9	9	201.5	21.8		
4	498.5	1.3			10	-72.2	1.55	1.813	25.2
5	112.0	13.7	1.625	56.6	11	64.7			
6	3190	80.5							

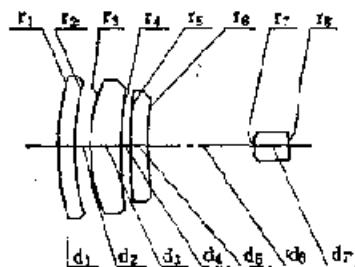
	ΣS ₁	ΣS ₂	ΣS ₃	ΣS ₄	ΣS ₅	HI	QP (1ω)
	-0.015	-0.00026	-0.011	0.0095	-0.11	10.53	-1.97%
h 或 Φ %	LA'	ΔH'	x _t '	x _s	x _t ' - x _s	K _{T1}	K _{T0.7}
100	0.0030	-0.20	-0.13	0.013	-0.14	0.077	0.037
70	-0.024	-0.071	0.071	0.000020	-0.071	0.015	0.0095



编号: 01-00-077

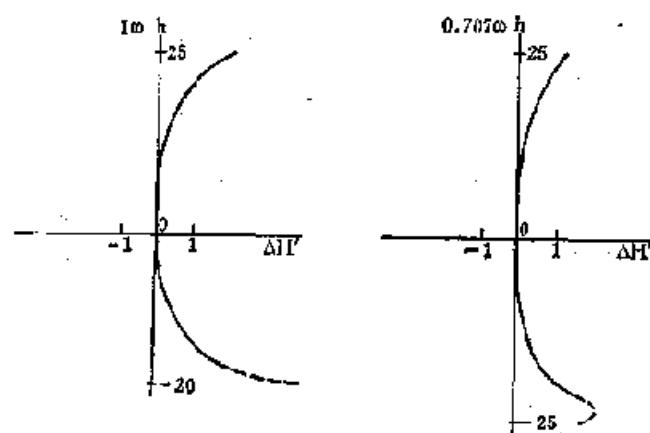
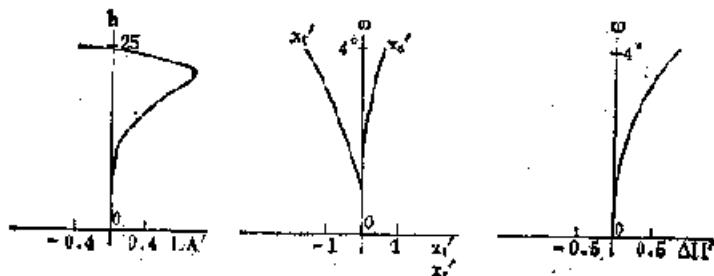
红外望远物镜

E. F. L=100 B. F. L=1.48 FNo. = 2 F. A. = 8' $\lambda=30000\text{~}80000\text{ \AA}$



序号	r	d	$n_{4.26\text{m}\mu}$	序号	r	d	$n_{4.26\text{m}\mu}$
1	66.4	4.6	3.42	5	193.7	4.9	4.02
2	81.72	5.0		6	70.0	30.0	
3	41.60	8.6	3.42	7	-7.92	9.3	4.02
4	118.6	2.05		8	-26.66		

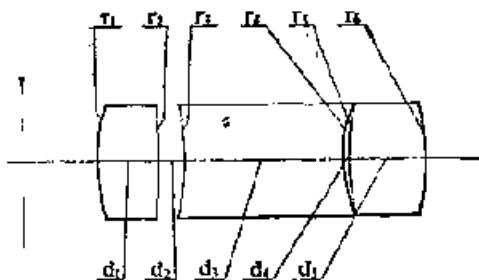
	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	HI	QP (1 ω)
	-0.011	0.16	-0.12	0.18	0.32	7.44	11.26%
z 或 $\omega\%$	LA'	$\Delta T'$	x_1'	x_3'	$x_1' - x_3'$	K_{T1}'	$K_{T0.7}'$
100	-0.46	0.83	-1.55	0.49	-2.05	-16.82	1.12
70	0.41	0.26	-0.79	0.27	-1.07	-15.00	0.50



编号: 01-00-078

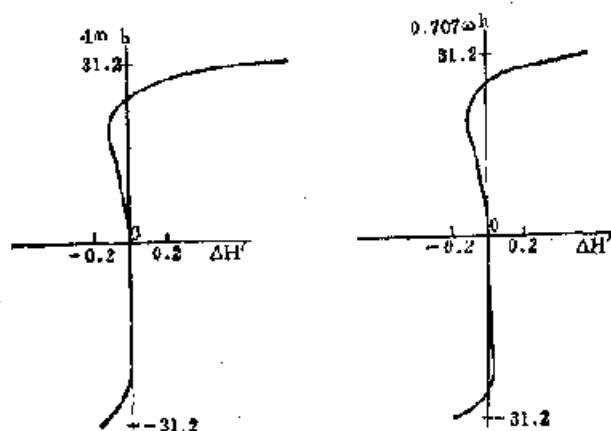
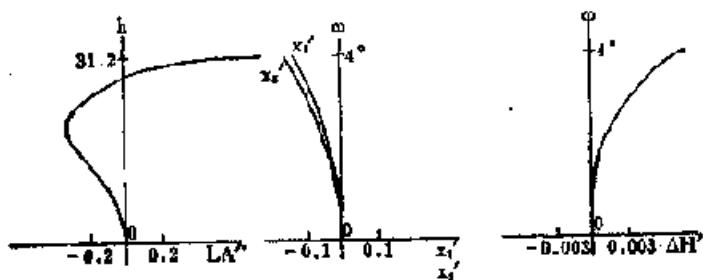
三 片 式 物 镜

E. F. L=100 B. F. L=52.12 FNo. = 1.6 F. A. = 8° $Lp_1' = -14.3$



序号	r	d	na	v _a	序号	r	d	na	v _a
		14.3							
1	72.9	18.6	1.75	50.6	4	48.4	1.89		
2	-189.9	7.43			5	75.0	22.9	1.75	50.6
3	-90.3	48.6	1.72	29.3	6	-75.0			

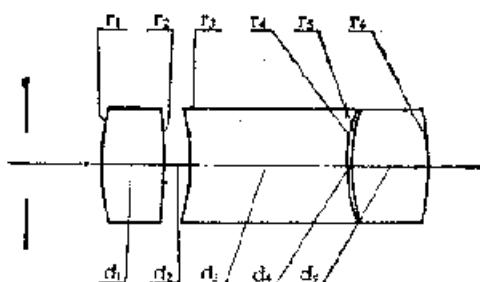
	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	HI	QP (1φ)
	-0.27	-0.057	0.00061	-0.029	0.0045	7.06	0.11%
h 或 φ %	LA'	ΔH'	x _t	x _s	x _t '-x _s	K _{T1}	K _{T3,7}
100	0.76	0.0078	-0.12	-0.14	0.021	0.35	-0.349
70	-0.12	0.0026	-0.068	-0.075	0.0068	0.19	-0.045



编号: 01-00-079

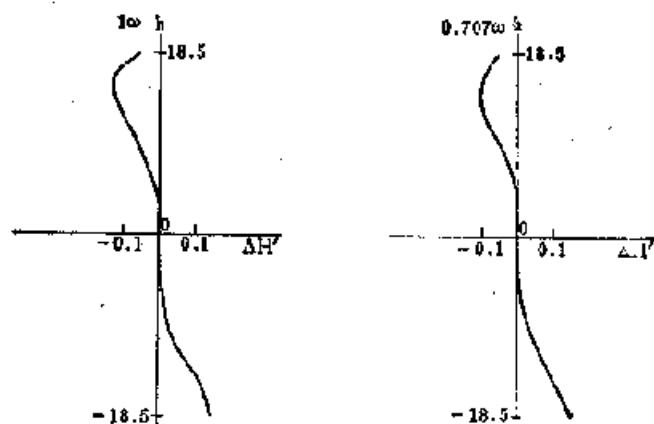
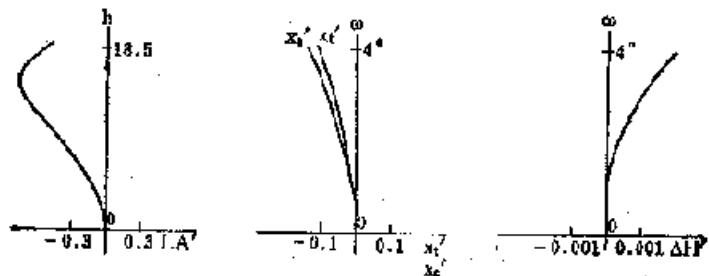
三 片 式 物 镜

E.F.L=100 B.F.L=70.28 FNo. = 2.7 F.A. = 8° Lp₁' = -14.3



序号	r	d	n _d	v _d	序号	r	d	n _d	v _d
1	-52.0	15.7	1.61	58.6	4	47.6	2.9		
2	-83.7	1.3			5	135	11.5	1.61	58.6
3	-63.4	21.0	1.61	37.0	6	-69.7			

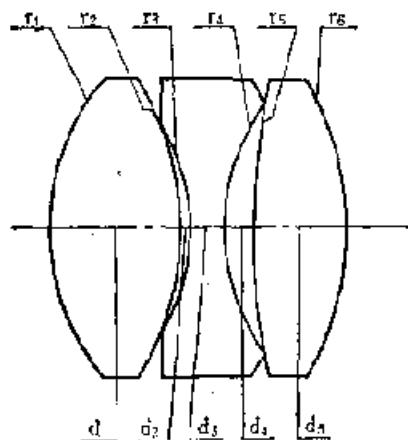
	ΣS ₁	ΣS ₂	ΣS ₃	ΣS ₄	ΣS ₆	HI	QP(1ω)
	-0.12	-0.0060	0.00053	-0.010	0.00062	7.01	0.026%
h 或 ω %	LA'	ΔH'	x _t '	x _s '	x _t ' x _s '	K _{RI}	K _{T0.7}
100	-0.52	0.0018	-0.11	-0.14	0.020	0.045	-0.0078
70	-0.05	0.00052	-0.060	-0.070	0.0095	0.030	-0.0082



编号: 01-00-080

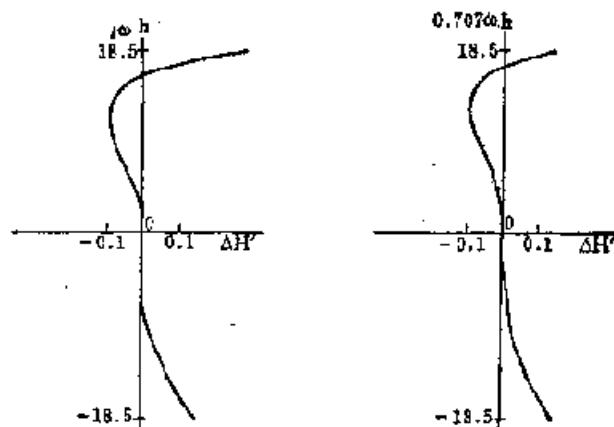
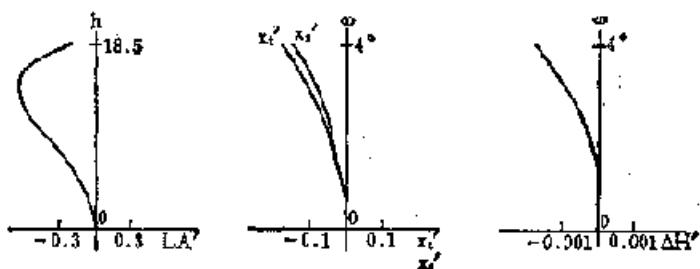
三 片 式 物 镜

E. F. L=100 B. F. L=65.83 FNo. = 2.7 F. A. = 8° $L_{p1}' = -31.2$



序号	r	d	n_D	v_D	序号	r	d	n_D	v_D
		31.2*							
1	50.4	28.6	1.61	58.8	4	46.6	6.84		
2	-53.0	1.61			5	143	20.2	1.61	58.8
3	-43.6	7.61	1.62	36.6	6	-65.4			

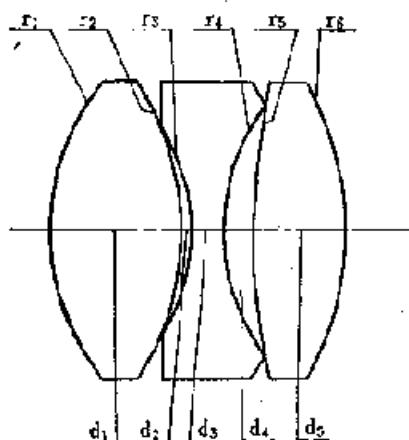
	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	HI	QP (1φ)
	-0.12	-0.016	-0.00081	-0.0099	-0.00074	7.07	-0.028%
h 或 $\alpha\%$	LA'	$\Delta H'$	x_t'	x_s'	$x_t' - x_s'$	$K_{t0.7}'$	$K_{t0.7}$
100	-0.23	-0.0018	0.17	-0.15	-0.017	0.21	-0.0070
70	-0.60	-0.00368	-0.090	-0.079	-0.010	0.13	-0.0082



编号: 01-00-081

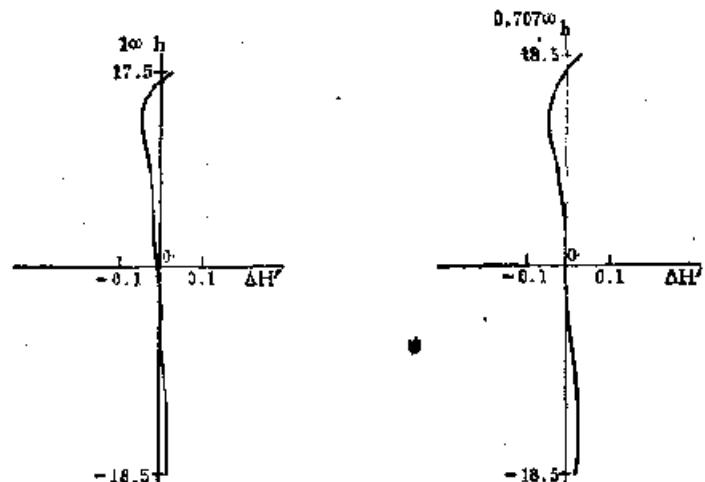
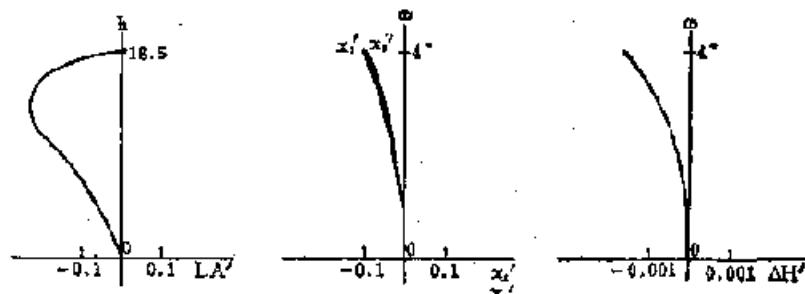
三 片 式 物 镜

E. F. L = 100 B. F. L = 69.14 FNo. = 2.7 F. A. = 8° L_{p1} = 14.5



序号	r	d	n _D	v _D	序号	r	d	n _D	v _D
		14.5*							
1	54.7	28.9	1.75	52.4	4	46.3	11.1		
2	-31.3	5.0			5	140	12.6	1.75	52.4
3	-69.3	5.0	1.72	29.3	6	-62.0			

	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	H.I	QP (10 ⁴)
	-0.051	-0.0092	-0.00026	-0.0058	-0.00062	7.07	-0.023%
h 或 φ%	LA'	ΔH'	x _t '	x _s '	x _t '-x _s '	K _{T1}	K _{T0.7}
100	-0.0090	-0.0015	-0.10	-0.10	-0.0018	0.046	-0.012
70	-0.22	-0.00058	-0.054	-0.052	-0.0024	0.026	-0.010



编号: 01-00-082

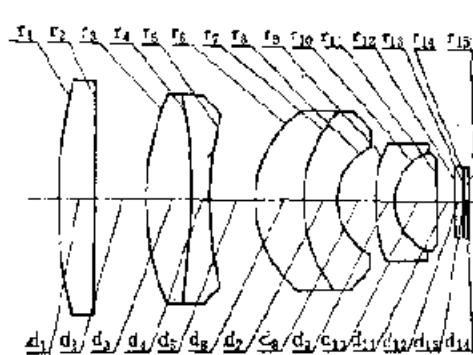
改进的三组元透镜系统

E. F. L = 1 英寸

B. F. L = 0

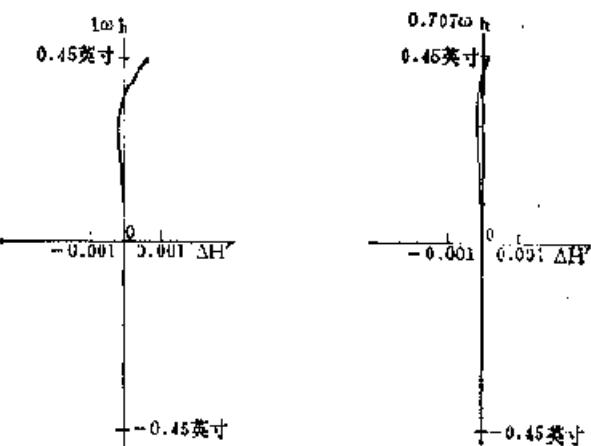
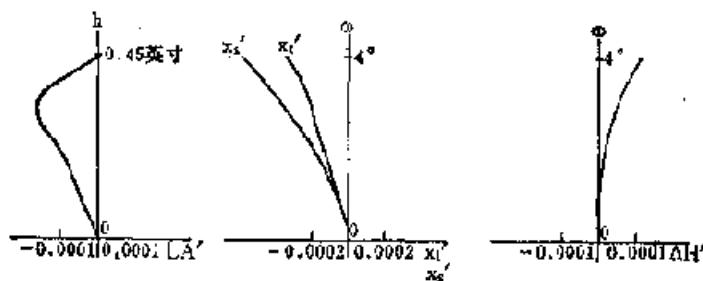
FNo. = 1.1

F. A. = 8°



序号	r	d	n _E	v _E	序号	r	d	n _E	v _E
1	2.08	0.142	1.721	47.7	9	0.621	0.032	1.592	52.9
2	23.6	0.21			10	0.2031	0.170	1.792	50.2
3	0.987	0.182	1.721	47.7	11	11.82		0.0758	
4	-2.035	0.078	1.813	25.3	12	∞		0.028	1.5163
5	1.771	0.178			13	∞		0.03536	
6	0.435	0.194	1.694	54.6	14	∞		0.015	1.5163
7	0.641	0.142	1.768	26.8	15	∞			
8	0.226	0.150							

	ΣS ₁	ΣS ₂	ΣS ₃	ΣS ₄	ΣS ₅	HI	QP (100)
	-0.00026	-0.00013	0.000025	0.00030	0.00012	0.069	0.15%
h 或 w %	LA'	ΔH'	x ₁ '	x ₂ '	x ₂ ' - x ₁ '	K _{T1}	K _{T0.7}
100	-0.0000074	0.00011	-0.00034	-0.00059	0.00020	0.00029	-0.000036
70	-0.00017	0.000041	-0.00022	-0.00032	0.000091	0.000092	-0.000064



编号: 01-00-083

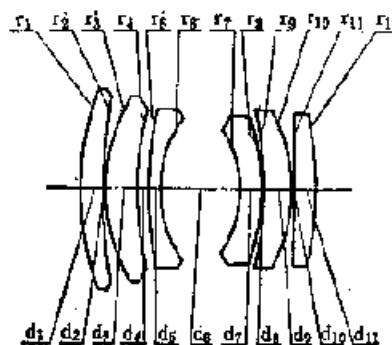
六片式大口径长工作截距摄影物镜

E. F. L = 100

B. F. L = 74.64

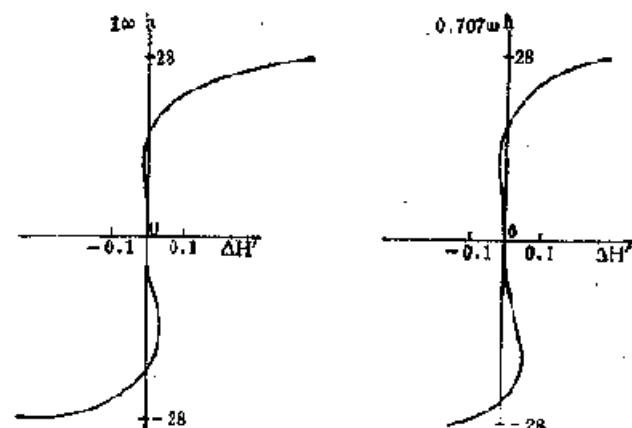
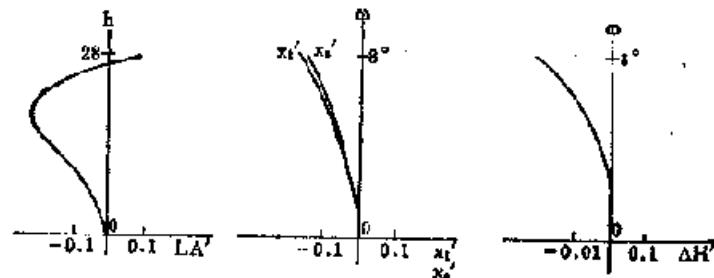
FNo. = 1.8

F. A. = 16'



序号	r	d	n	v	序号	r	d	n	v
1	71.750	7.0	1.8377	42.0	7	-31.500	6.10	1.7613	26.5
2	191.724	0.20			8	-70.335	0.20		
3	48.800	9.00	1.8372	43.3	9	-109.300	8.00	1.8052	46.6
4	102.065	3.00			10	-44.537	0.10		
5	135.000	3.00	1.7408	27.7	11	670.000	6.50	1.7130	53.9
6	31.162	22.00			32	-93.563			

	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	HI	QP (1 ω)
	-0.13	0.011	-0.00073	-0.026	-0.010	14.05	-0.14%
h 或 ω %	LA'	$\Delta H'$	x_1'	x_2'	$x_1' - x_2'$	K_{T1}	K_{T6-7}
100	0.080	-0.020	-0.16	-0.15	-0.0048	0.059	0.030
70	0.21	-0.0069	-0.087	-0.083	-0.0034	0.053	0.024



编号: 01-00-084

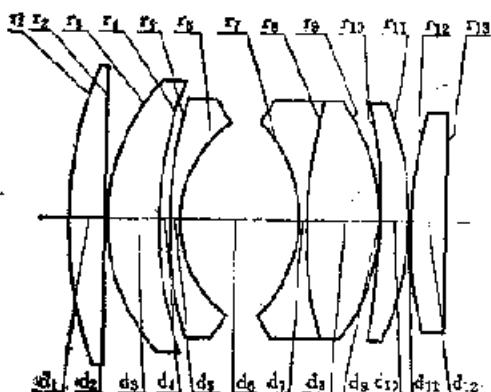
大孔径七片式物镜

E. F. L=100

B. F. L=63.48

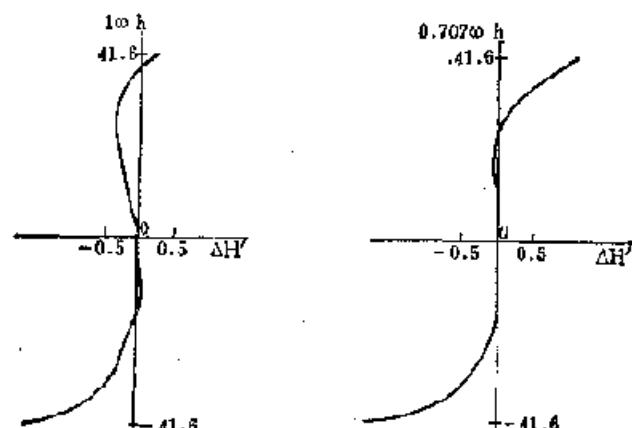
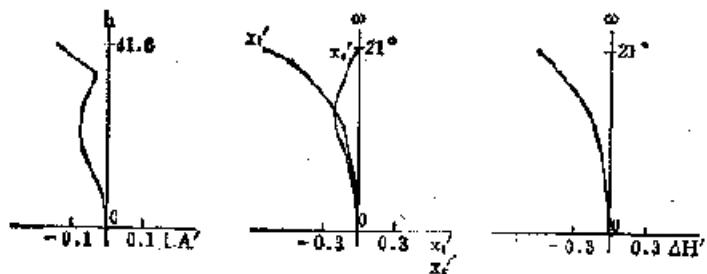
FNo. = 1.2

F. A. = 42°



序号	r	d	n _d	v _d	序号	r	d	n _d	v _d
1	110.000	10.00	1.80416	46.6	8	131.500	20.00	1.77252	49.6
2	586.748	0.20			9	-56.806	0.20		
3	51.600	14.50	1.79446	45.4	10	-160.000	8.50	1.77252	49.6
4	100.426	3.50			11	-74.352	0.20		
5	119.003	3.00	1.71736	29.5	12	122.000	9.50	1.77252	49.6
6	32.792	32.50			13	2092.573			
7	-36.500	2.00	1.68893	31.1					

	ΣS ₁	ΣS ₂	ΣS ₃	ΣS ₄	ΣS ₆	HJ	QP(100)
	-0.16	-0.053	0.071	-0.32	-0.48	28.38	-1.60%
h 或 φ %	LA'	ΔH'	x _t '	x _t	x _t ' - x _t	K ₁₁	K _{10.7}
100	-0.14	-0.61	-0.81	-0.00072	-0.81	-0.64	-0.27
70	-0.065	-0.22	-0.25	-0.21	-0.044	0.14	0.092



编号: 01-00-085

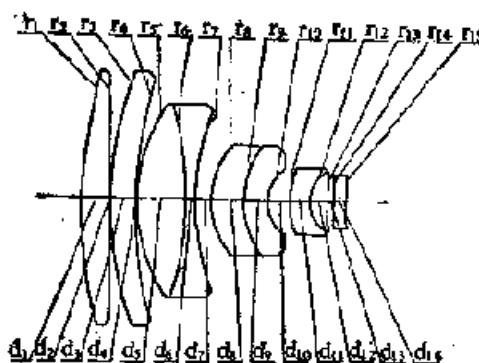
用于电视摄像机的大孔径物镜

E. F. L = 100

B. F. L = 6.1

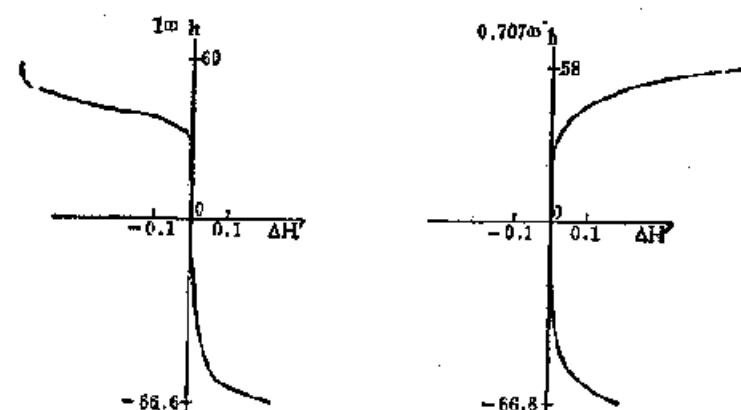
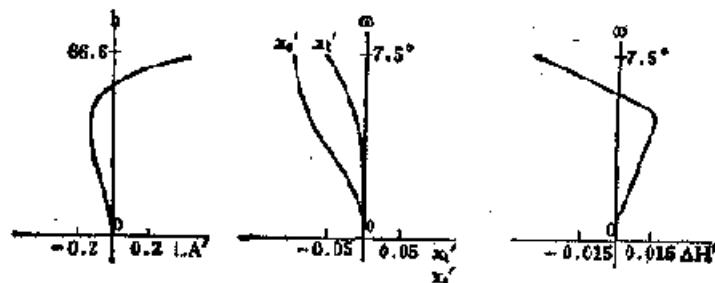
FNo. = 0.75

F. A. = 15°



序号	r	d	n _E	v _E	序号	r	d	n _E	v _E
1	280.1	16.35	1.694	54.5	9	51.65	14.5	1.768	26.7
2	∞	0.15			10	22.00	14.4		
3	207.8	15.1	1.694	54.5	11	61.6	12.0	1.582	52.7
4	247	0.03			12	19.90	10.23	1.782	50.2
5	99.3	29.0	1.721	47.7	13	1547	-	2.5	
6	-203	7.8	1.813	25.2	14	∞	6.55	1.525	59.2
7	161	8.7			15	∞			
8	44.4	20.3	1.694	54.5					

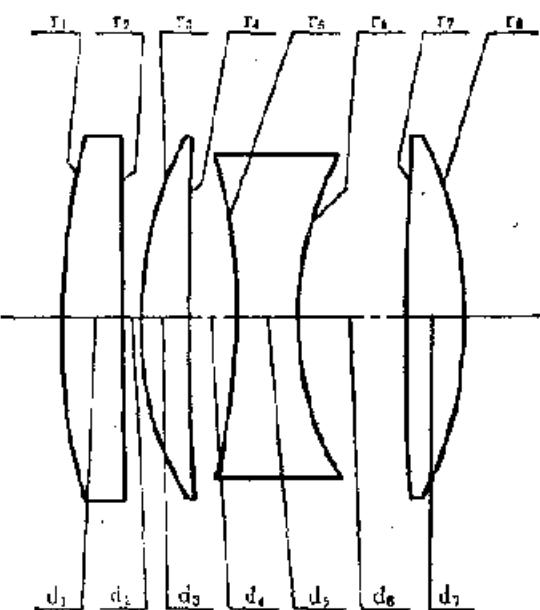
ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	HI	QP (100)
-0.063	-0.058	0.024	-0.12	0.095	13.08	-0.27%
h 成 0%	LA'	$\Delta H'$	x_t	x_s	$x_t - x_s$	K_{T1}
100	0.042	-0.036	-0.051	-0.10	0.055	5.03
70	-0.011	0.016	-0.020	-0.083	0.062	1.04
						0.086



编号: 01-00-086

四片式大孔径记录透镜系统

E. F. L=100 B. F. L= FNo. = 1.9 F. A. = 37.5° ~ 43° ~ 45°
 $\beta = -\frac{7}{10} \sim -\frac{9}{10} \sim 1.0^{\circ}$

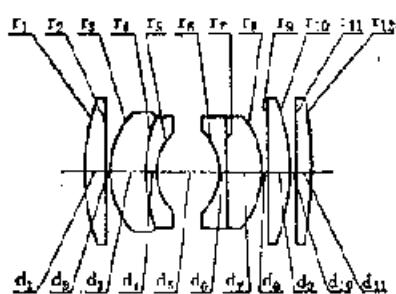


序号	r	d	n _D	v _D
1	99.39	9.05	1.6170	55.1
2	859.95	2.55		
3	53.63	7.95	1.6110	67.3
4	∞	6.95		
5	-102.7	9.25	1.6725	32.2
6	49.7	16.17		
7	310.1	8.60	1.6110	67.3
8	57.82			

编号: 01-00-087

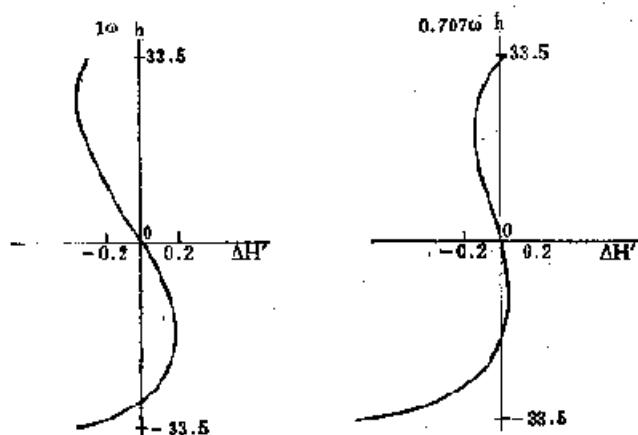
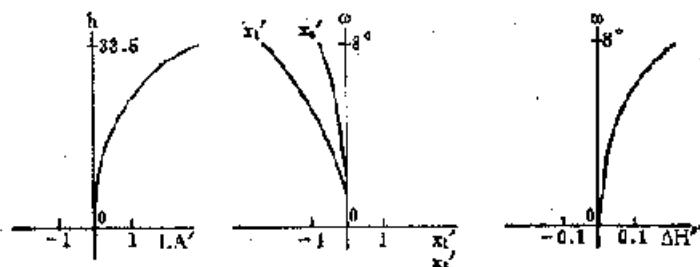
用于荧光影象的电子摄影复制的七片式镜头

E. F. L = 134.04 B. F. L = 51.80 FNo. = 2.0 F. A. = 16° $\lambda = 4360 \text{ \AA}$



序号	r	d	n _D	v _D	序号	r	d	n _D	v _D
1	33.0	12.15	1.62031	60.3	7	∞	19.8	1.62031	60.3
2	∞	3.0			8	-46.5	3.0		
3	46.5	19.8	1.62031	60.3	9	∞	12.15	1.62031	60.3
4	125.0	4.5	1.61992	36.3	10	-93.0	3.0		
5	30.686	34.0			11	∞	9.72	1.62031	60.3
6	-30.686	4.5	1.61992	36.3	12	-290.07			

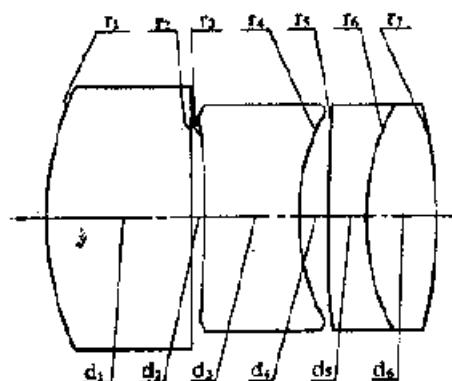
	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	Hf	QP (10)
	0.14	-0.048	-0.057	-0.023	0.10	18.95	1.14%
h 或 ω %	LA'	$\Delta H'$	x_t'	x_t	$x_t' - x_t$	K ₁	K _{10.7}
100	2.91	0.21	-2.20	-0.79	-1.41	-0.31	0.10
70	0.93	0.073	-1.01	-0.38	-0.63	-0.36	-0.11



编号: 01-00-088

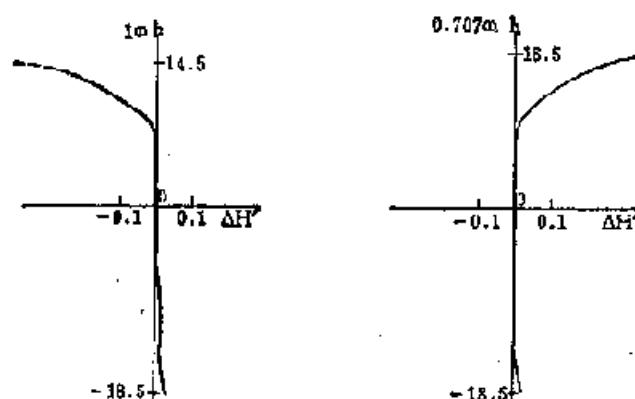
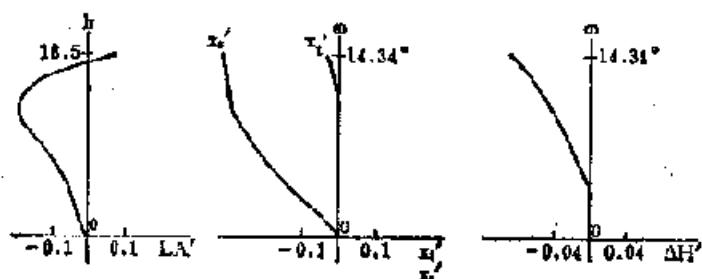
三组四片摄影物镜

E. F. L = 100 B. F. L = 69.47 FNo. = 2.7 F. A. = $\pm 14.34^\circ$ $Lp_1' = -17.4$



序号	r	d	n _D	v _D	序号	r	d	n _D	v _D
		17.4*							
1	49.3	22.1	1.75	52.4	5	150.0	5.7	1.53	51.6
2	1017.5	2.2			6	34.8	10.8	1.75	52.4
3	-121.1	14.6	1.69	31.1	7	-32.0			
4	31.9	4.2							

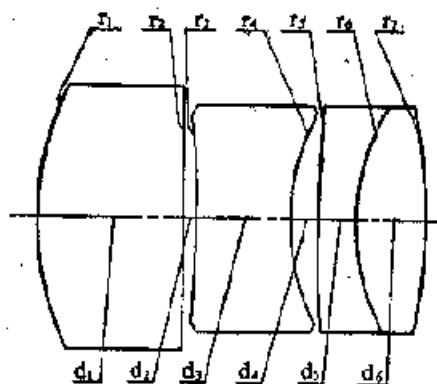
	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	H	QP (1m)
	-0.047	-0.020	0.011	-0.056	-0.019	26.34	-0.33%
h 或 ω %	LA'	$\Delta H'$	x_t'	x_s'	$x_t' - x_s'$	K_{T1}	$K_{T0,7}$
100	0.060	-0.003	-0.035	-0.33	0.30	-1.94	-0.093
70	-0.18	-0.020	-0.0027	-0.303	0.30	0.40	0.081



编号: 01-00-089

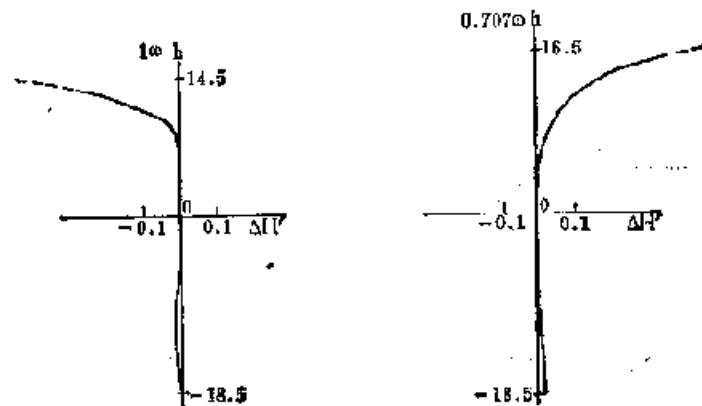
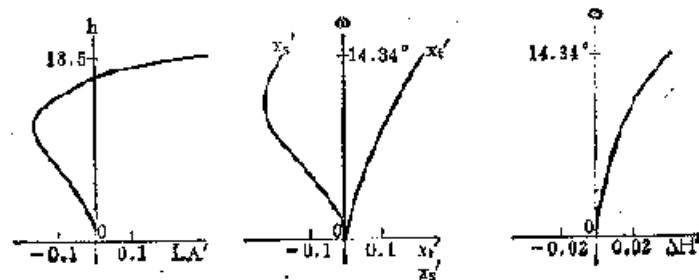
三组四片摄影物镜

E.F. L=100 B.F. L=69.71 FNo. = 2.7 F.A. = $\pm 14.34^\circ$ Lp₁ = -18.3



序号	r	d	ν_D	序号	r	d	ν_D
		18.3*					
1	60.3	22.0	1.75	5	434.8	5.7	1.53
2	-284.2	1.7		6	84.6	10.9	1.75
3	-93.2	14.7	1.69	7	-74.1		
4	34.6	3.8					

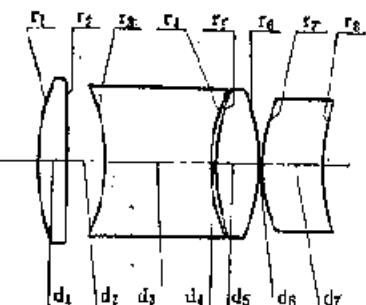
	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	HII	QP(±ω)
	-0.050	-0.015	0.015	-0.060	0.014	26.40	0.15%
h 或 $\omega\%$	LA'	$\Delta H'$	x_1'	x_3	$x_1' - x_3$	K_{T1}	$K_{T0.7}$
100	0.31	0.040	0.22	-0.18	0.41	-2.00	-0.14
70	-0.16	0.019	0.12	-0.22	0.35	0.39	0.081



编号: 01-00-090

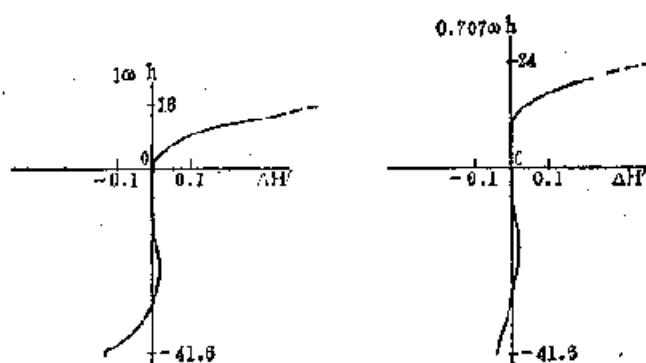
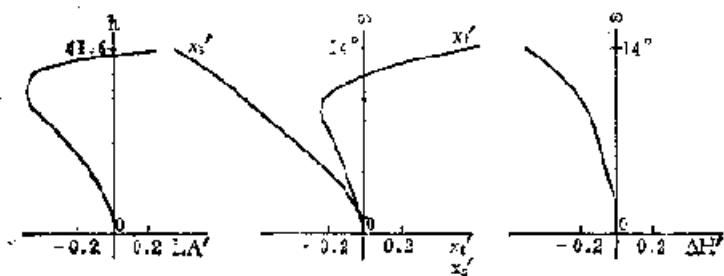
四组元大孔径镜头

E. F. L=100 B. F. L=53.97 FNo. = 1.2 F. A. = $\pm 14^\circ$ $L_{p1}' = -14.29$



序号	r	d	n	v	序号	r	d	n	v
		14.29							
1	131.52	16.43	1.753	50.6	5	116.97	24.29	1.753	50.6
2	-737.93	20.71			6	-96.043	1.43		
3	-96.043	60.00	1.720	29.3	7	86.129	34.29	1.6968	56.2
4	94.129	3.02			8	154.39			

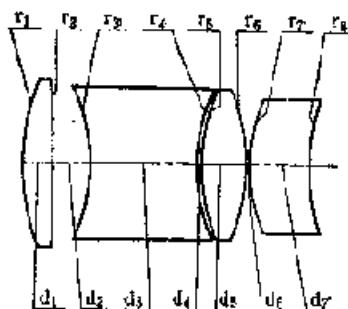
	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	H	QP (1 ϕ)
	-0.39	-0.28	0.080	-0.53	-0.59	24.02	-2.18%
h 或 ϕ %	LA'	$\Delta H'$	x_t'	x_s'	$x_t' - x_s'$	K_{T1}	$K_{T0.7}$
100	0.22	-0.54	0.62	-1.08	1.70	18.40	11.03
70	-0.46	-0.20	-0.24	-0.65	0.41	18.20	0.82



编号: 01-00-091

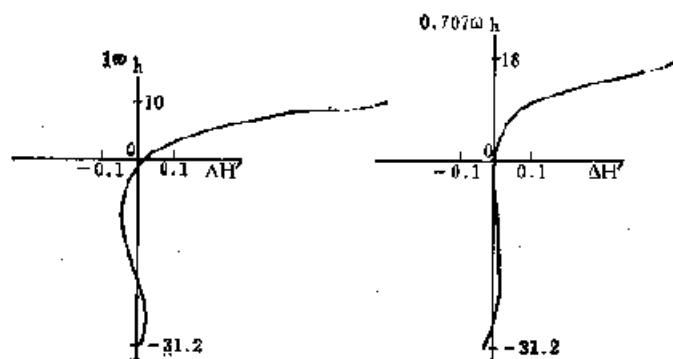
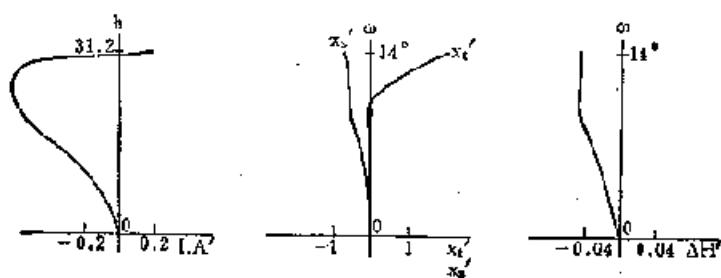
四组元大孔径镜头

E. F. L=100 B. F. L=53.37 FNo. = 1.6 F. A. = $\pm 14^\circ$ $Lp'_1 = -14.28$



序号	r	d	n	v	序号	r	d	n	v
		14.29*							
1	84.843	16.14	1.617	54.9	5	502.27	18.00	1.617	54.9
2	-310.43	20.93			6	-50.200	1.43		
3	58.733	26.36	1.689	30.9	7	69.464	32.57	1.617	54.9
4	90.279	3.93			8	126.44			

	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	HI	QP (100)
	-0.20	-0.20	-0.036	-0.29	-0.11	24.93	-0.13%
h 或 %	LA'	$\Delta H'$	x_1'	x_2'	$x_t' - x_s'$	K_{F1}	$K_{F0.7}$
100	0.16	-0.046	2.28	-0.75	3.04	10.31	9.34
70	-0.59	-0.047	0.088	-0.64	0.55	8.36	0.94



编号: 01-00-Q92

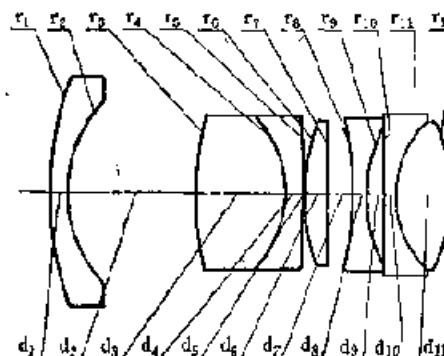
短焦距长后截距摄影镜头

E. F. L=1.0

B. F. L=1.0918

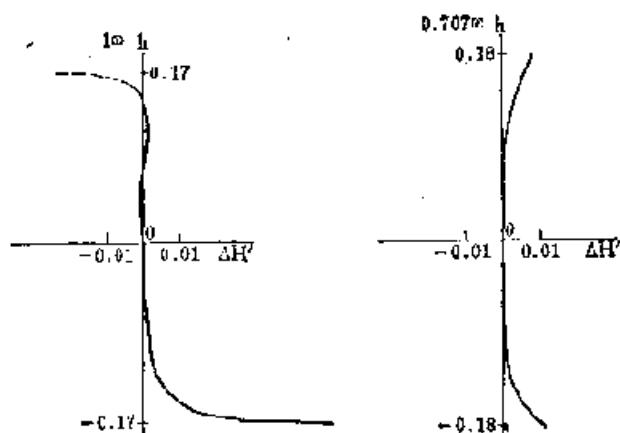
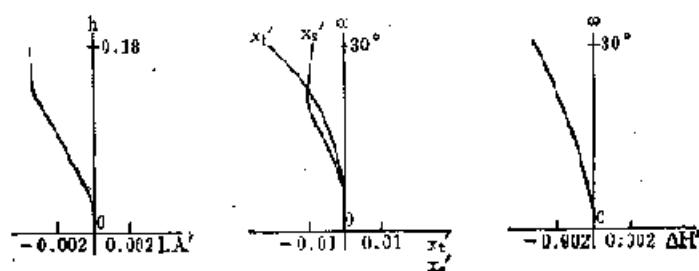
FNo. = 2.8

F. A. = 60°



序号	r	d	n _g	v _g	序号	r	d	n _g	v _g
1	1.115	0.064	1.4892	69.9	7	-17.428	0.095		
2	0.446	0.439			8	-1.141	0.043	1.7040	34.6
3	1.469	0.303	1.6713	41.6	9	0.543	0.056		
4	-0.368	0.053	1.6299	38.8	10	11.455	0.043	1.6734	46.9
5	-3.293	0.003			11	0.358	0.180	1.6940	64.6
6	0.674	0.085	1.6241	60.1	12	-0.575			

	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	HI	QP(1ω)
	-0.00049	0.00044	0.00025	-0.0017	-0.0021	0.57	-0.60%
h 或 ω %	LA'	ΔH'	x _t	x _s '	x _t '-x _s '	K _{T1}	K _{T0.7}
100	-0.0036	-0.0034	-0.020	-0.0095	-0.011	-0.018	0.0022
70	-0.0030	-0.0019	-0.0078	-0.0098	0.0019	0.0093	0.00098



编号: 01-00-093

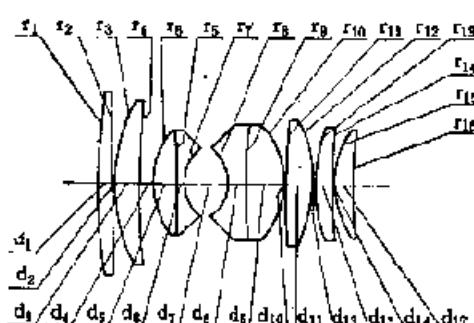
大孔径摄影或电影摄影物镜

E. F. L = 100

B. F. L = 68.42

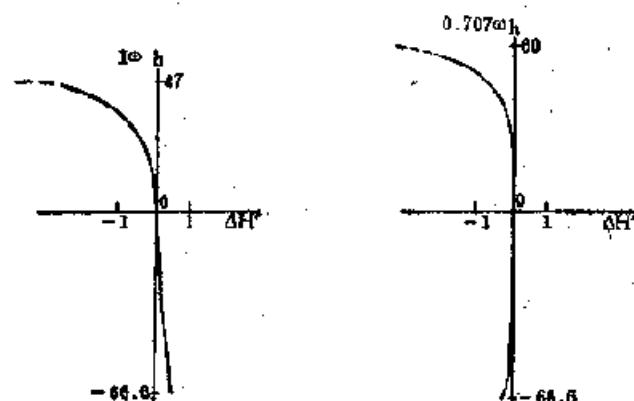
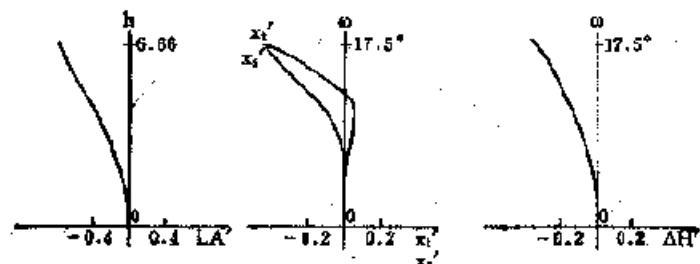
FNo. = 0.75

F. A. = 35°



序号	r	d	nA	vA	序号	r	d	nA	vA
1	696.68	10.51	1.5197351.9		9	414.82	42.45	1.7339250.8	
2	-2309.16	0.40			10	-84.78	0.40		
3	185.20	28.10	1.5197351.9		11	613.55	30.85	1.8228750.1	
4	836.41	13.76			12	-146.65	0.40		
5	87.02	28.49	1.6858447.1		13	156.47	20.63	1.5899058.0	
6	-675.06	7.46	1.6207552.1		14	854.49	0.40		
7	46.14	50.90			15	99.01	32.80	1.5899058.0	
8	47.56	18.67	1.8550428.5		16	302.96			

	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	HJ	QP(10)
	-0.66	-0.030	0.30	-0.56	-0.86	31.47	-1.14%
h 或 ω %	LA'	$\Delta H'$	x_1'	x_2'	$x_1' - x_2'$	K_{T1}	$K_{T0.7}$
100	0.79	-0.36	-0.44	-0.45	0.013	22.42	-1.24
70	-0.43	-0.19	0.052	-0.17	0.22	51.92	-0.29



编号: 01-00-094

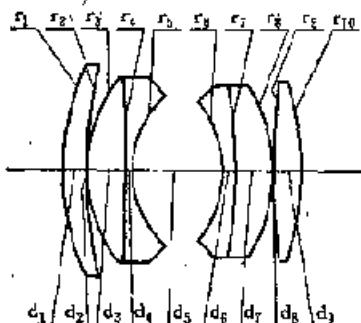
大孔径双高斯型摄影或电影摄影物镜

E. F. L=100

B. F. L=71.9

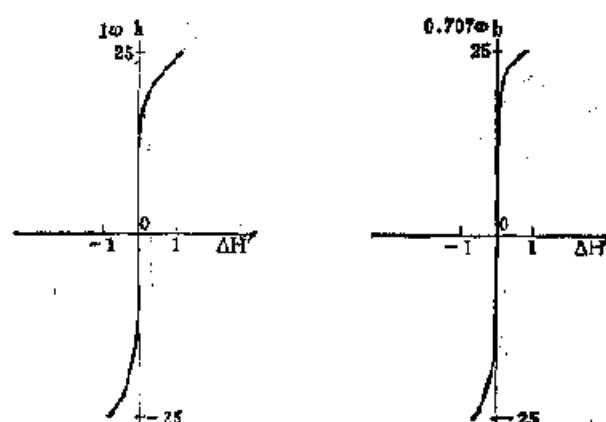
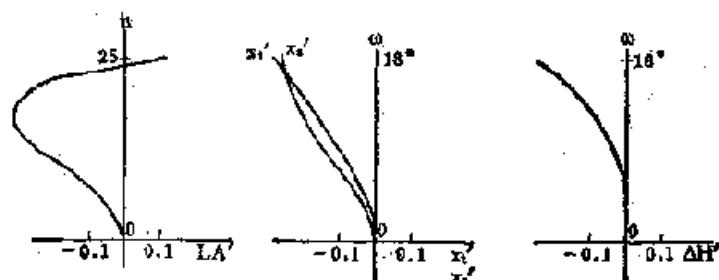
FNo. = 2

F. A. = 36°



序号	r	d	n _o	v	序号	r	d	n _o	v
1	63.05	0.13	1.78668	43.62	6	-30.88	3.83	1.81282	25.28
2	121.37	0.38			7	-134.40	10.35	1.78868	43.62
3	37.88	19.73	1.68081	55.31	8	-41.25	0.38		
4	575.52	2.30	1.59910	39.58	9	864.04	7.28	1.78868	43.62
5	25.52	24.91			10	-82.71			

	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	HJ	QP(1ω)
	-0.146	0.0093	0.010	-0.082	0.10	32.49	0.80%
h 或 ω %	LA'	$\Delta H'$	x_1'	x_4'	$x_4' - x_1'$	K ₁₁	K _{T0.7}
100	0.11	-0.26	-0.26	-0.26	-0.026	0.11	0.046
70	-0.31	-0.084	-0.17	-0.21	0.043	0.10	0.039



编号: 01-00-095

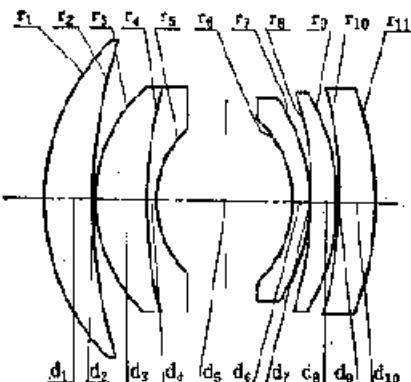
五组元光学物镜

E. F. L = 1.000

B. F. L = 0.5913

FNo. = 2.8

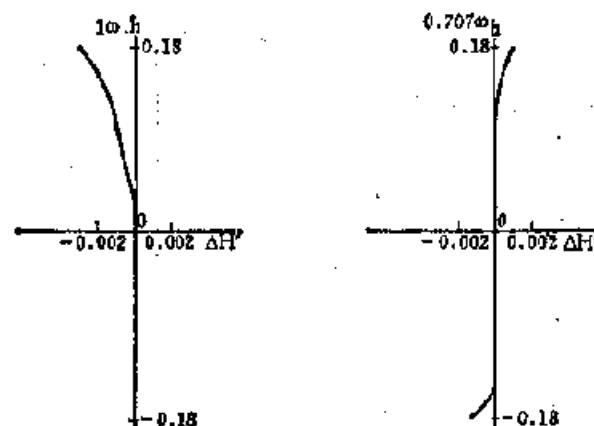
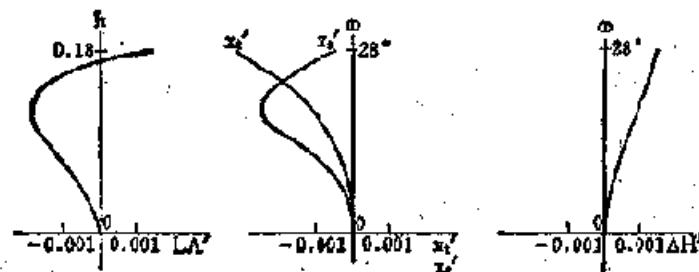
F. A. = 56°



序号	$1/r$	d	n_d	v_d	序号	$1/r$	d	n_d	v_d
1	2.4269	0.0900	1.6204	60.3	7	-2.8784	0.0020		
2	1.0077	0.0020			8	-1.3964	0.6500	1.6204	60.3
3	3.5754	0.1000	1.6204	60.3	9	-2.6544	0.0020		
4	1.2056	0.0200	1.6254	35.6	10	-1.2150	0.0700	1.6628	46.8
5	5.4002	0.2500			11	-2.5585			
6	-4.7022	0.0300	1.6052	25.4					

$$0.2500^2 = 0.1250 + 0.1250$$

	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_o	HI	QP(1ω)
	-0.00053	0.00011	0.000028	-0.00076	0.0013	0.53	0.27%
h 或 ω %	LA'	$\Delta H'$	x_1'	x_2'	$x_1' - x_2'$	K_{T1}	$K_{T0.7}$
100	0.0014	0.0014	-0.0032	-0.00050	-0.0027	-0.0012	-0.00070
70	-0.0018	0.00097	-0.0013	-0.0026	0.0012	-0.00047	-0.000017



编号: 01-00-096

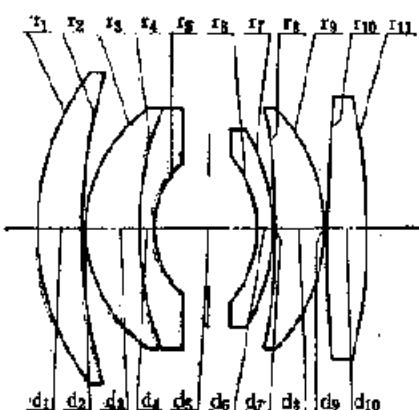
五组元光学物镜

E. F. L = 1.000

B. F. L = 0.4834

FNo. = 1.5

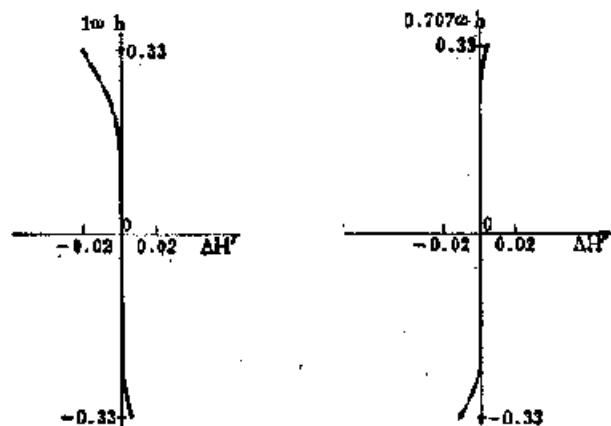
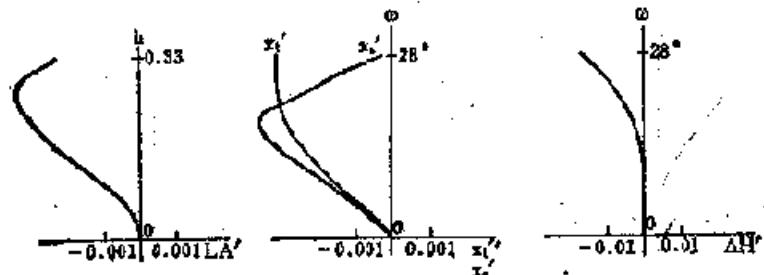
F. A. = 56°



序号	1/r	d	n _d	v _d	序号	1/r	d	n _d	v _d
1	1.4870	0.1300	1.8028	46.8	7	-1.9489	0.0030		
2	0.6046	0.0030			8	-0.5537	0.1300	1.8028	46.8
3	2.5267	0.1500	1.8028	46.8	9	-2.2409	0.0030		
4	1.1372	0.0400	1.7847	25.8	10	0.2944	0.1100	1.8028	46.8
5	4.0977	0.2800*			11	-0.6141			
6	-3.4392	0.0400	1.9176	21.5					

$$0.2800^* = 0.1400 + 0.1400$$

	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	Hf	QP(1ω)
	-0.0025	0.00076	-0.00027	-0.0036	-0.0035	0.53	-3.31%
h 或 θ %	LA'	ΔH'	X _{4'}	X _{4'}	X _{4'} - X ₄	K ₁₁	K _{10,7}
100	-0.0024	-0.017	-0.0033	-0.00027	-0.0031	-0.0081	-0.0036
70	-0.0034	-0.0046	-0.0032	-0.0036	0.00034	-0.0038	0.00025



编号: 01-00-097

双高斯型物镜

E.F.L=1

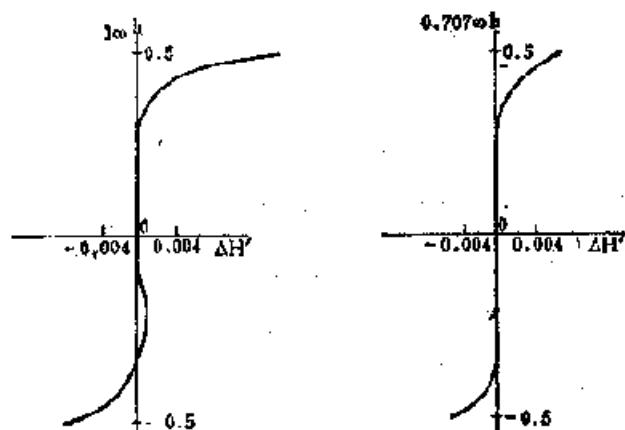
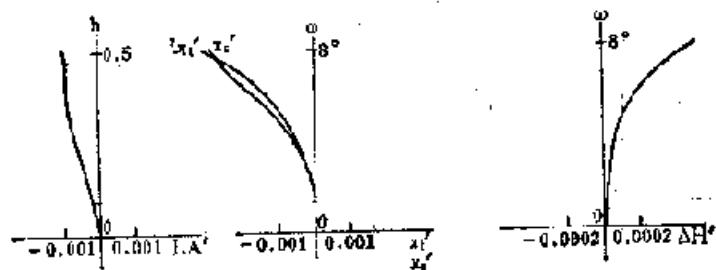
B.F.L=0.8726

FNo. = 1.0

F.A. = 16°

序号	r	d	na	v _d	序号	r	d	na	v _d
1	1.4859	0.1002	1.8700	47.19	8	-0.3968	0.0281	1.3989	30.05
2	5.0270	0.0044			9	1.6898	0.2439	1.7131	53.59
3	1.2175	0.1045	1.8700	47.19	10	-0.6325	0.0044		
4	3.8055	0.0044			11	1.7111	0.0784	1.5910	54.89
5	0.4783	0.2570	1.7130	53.89	12	-1.7111	0.0044		
6	-12.489	0.0261	1.6989	30.05	13	1.7111	0.0784	1.8910	54.89
7	0.2696	0.2783			14	-1.7111			

	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	H1	QP(1φ)
	0.0018	-0.000051	0.00015	-0.0016	0.00045	0.14	0.36%
h 或 φ %	LA'	$\Delta H'$	x_t'	x_s'	$x_t' - x_s'$	K_{T1}	$K_{T2,7}$
100	-0.00099	0.00051	-0.0031	-0.0029	-0.00014	0.0026	0.00013
70	-0.00097	0.00018	-0.0013	-0.0034	0.00013	0.0013	0.00014



编号: 01-00-098

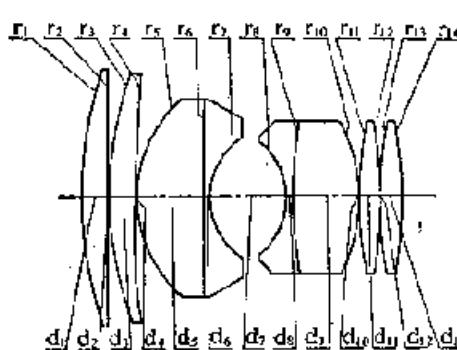
双高斯型物镜

E. F. L=1

B. F. L=0.3838

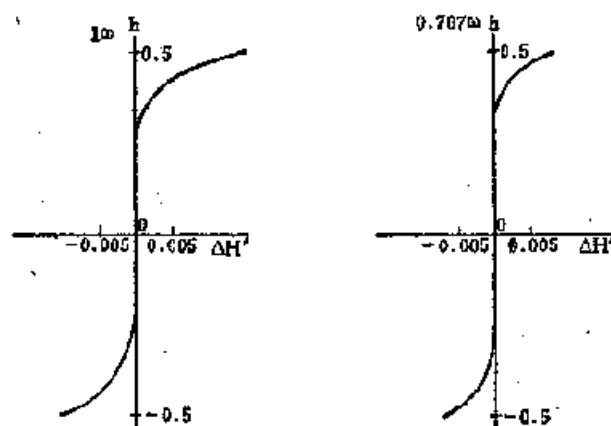
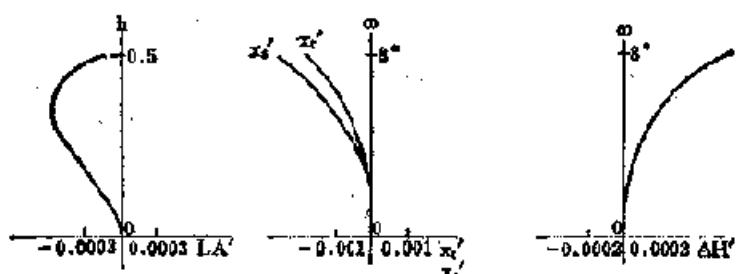
FNo. = 1.0

F. A. = 15°



序号	r	d	n	v	序号	r	d	n	v
1	1.5252	0.1023	1.6700	47.19	8	-0.3800	0.0252	1.6989	30.05
2	5.1743	0.0016			9	1.7635	0.2594	1.0204	60.29
3	1.2023	0.1067	1.6700	47.19	10	-0.5199	0.0016		
4	3.9145	0.0016			11	1.4108	0.0788	1.6910	54.80
5	0.4876	0.2572	1.7170	47.90	12	-2.2930	0.0016		
6	-10.376	0.0274	1.6989	30.05	13	1.4108	0.0788	1.6910	54.80
7	0.2736	0.2851			14	-2.2930			

	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	HI	QP(1 ω)
	-0.0011	-0.00044	0.00038	-0.0016	0.00056	0.14	0.44%
h 或 ω %	LA'	$\Delta H'$	x_t	x'_s	$x'_t - x_s$	K_{T1}	$K_{T0,7}$
100	-0.00015	0.00062	-0.0018	-0.0025	0.00067	0.0027	-0.00010
70	-0.00057	0.00021	-0.00071	-0.0012	0.00056	0.0010	-0.00011



编号: 01-00-099

改进的双高斯型物镜

E. F. L = 1.000

B. F. L = 0.1000

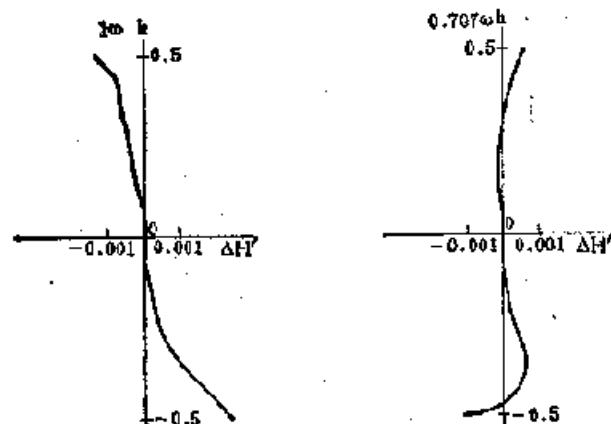
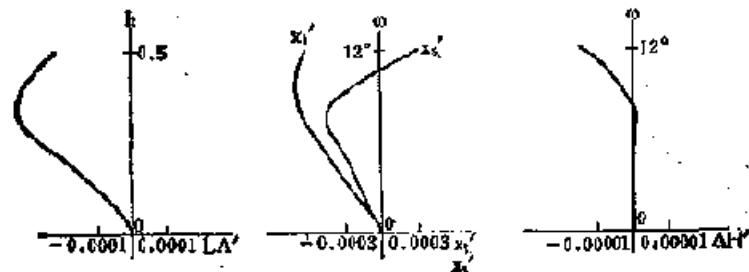
FNo. = 1.0

F. A. = 24°

序号	r	d	n	v	序号	r	d	n	v
1	1.1798	0.1420	1.64304	60.10	8	-0.5081	0.0400	1.64062	35.34
2	4.6838	0.0050			9	0.4614	0.2000	1.7480	44.77
3	0.7940	0.1420	1.64304	60.10	10	-0.8203	0.0247		
4	1.7662	0.0050			11	1.5931	0.1039	1.80688	46.76
5	0.5517	0.2450	1.64304	60.10	12	-2.2594	0.0010		
6	4.4826	0.0100	1.70445	36.07	13	0.7443	0.2969	1.80688	46.76
7	0.2325	0.2454*			14	0.6942			

$$0.2454^* = 0.1064 + 0.1399$$

	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	HI	QP(1 ω)
	-0.00072	0.00026	-0.000055	0.000096	0.000010	0.21	-0.0071%
h 或 ω %	LA'	$\Delta H'$	x_1'	x_4'	x_6' x_7'	K_{T1}'	$K_{T0,7}'$
100	-0.00021	-0.000015	-0.00065	0.00031	-0.00097	0.00051	0.00025
70	-0.00032	0.00000086	-0.00069	-0.00045	-0.00024	-0.00020	0.00091



编号: 01-00-100

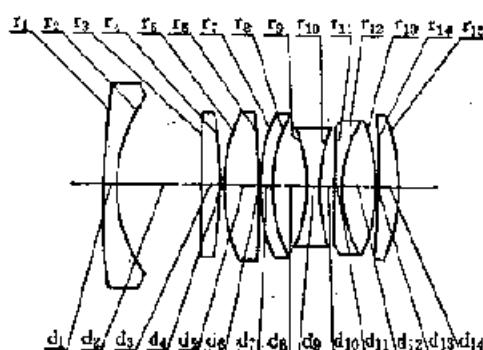
广 角 镜 头

E. F. L = 100

B. F. L = 103.96

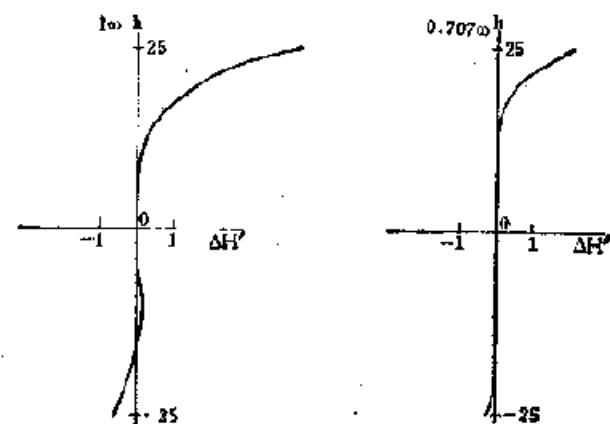
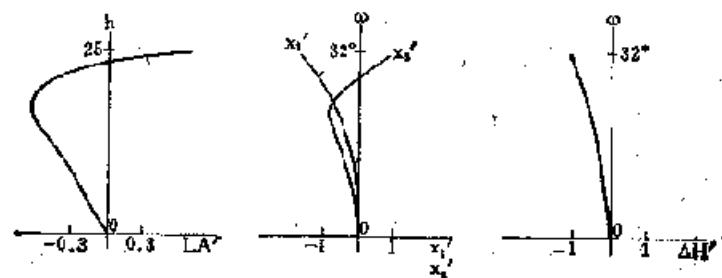
FNo. = 2.0

F. A. = $\pm 32^\circ$



序号	r	d	n _D	v _D	序号	r	d	n _D	v _D
1	450.000	7.00	1.58913	61.2	9	-91.500	6.50	1.74077	27.7
2	-80.137	47.00			10	98.025	8.00		
3	-2300.000	10.00	1.76200	40.3	11	1000.000	4.00	1.83400	37.2
4	-292.234	2.00			12	71.000	19.00	1.77252	49.6
5	95.700	18.00	1.77252	49.6	13	-89.354	0.50		
6	-707.468	1.00			14	-600.000	10.00	1.77251	49.6
7	80.000	8.00	1.53172	48.9	15	-110.648			
8	24.488	18.00							

	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	HI	QP(100)
	-0.27	-0.067	0.046	-0.38	-0.81	62.48	-1.78%
h 或 ϕ %	LA'	$\Delta H'$	x_t'	x_s'	$x_t' - x_s'$	K _{T1}	K _{T0.7}
100	0.67	-1.11	-1.65	0.90	-2.56	2.00	0.48
70	-0.54	-0.58	-0.76	-0.80	0.035	0.95	0.10



编号: 01-00-101

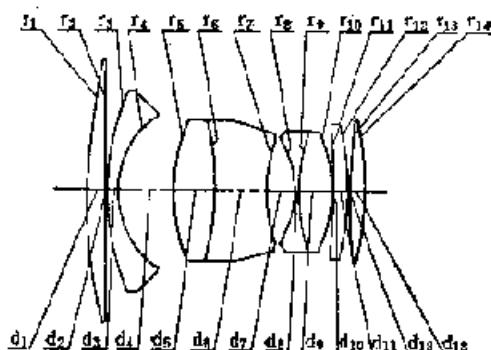
大孔径长工作截距摄影镜头

E. F. L = 1.0

B. F. L = 1.1337

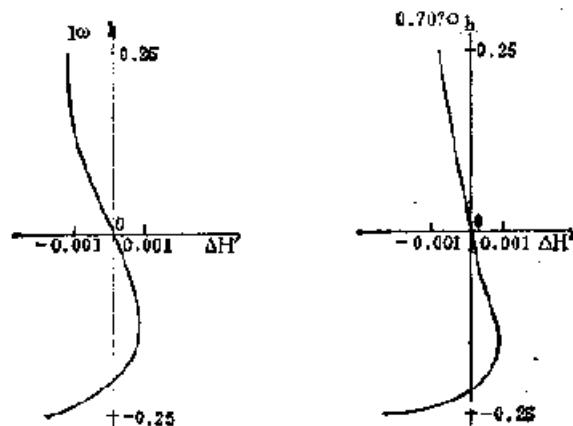
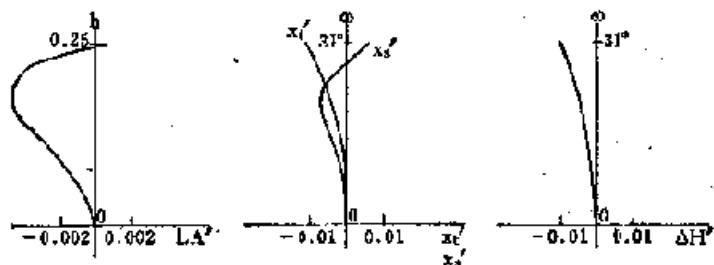
FNo. = 2

F. A. = 62°



序号	r	d	n _D	v _A	序号	r	d	n _D	v _A
1	3.2117	0.10833	1.71300	53.9	8	-0.5902	0.02778	1.78470	26.1
2	∞	0.00278			9	1.0775	0.19444	1.74445	49.4
3	1.3889	0.06111	1.51680	64.3	10	-0.7172	0.00273		
4	0.4778	0.31111			11	-3.0556	0.08333	1.76884	46.2
5	0.8945	0.22778	1.60755	41.9	12	-1.0691	0.00278		
6	-1.5278	0.29187	1.51454	54.62	13	3.6111	0.08944	1.74400	44.9
7	0.9444	0.14722			14	-2.1958			

	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	HI	QP(1ω)
	-0.0019	0.0010	0.00034	-0.0035	0.0071	0.60	-1.73%
h 或 ω %	LA'	$\Delta H'$	x_t'	x_s'	$x_t' - x_s'$	K_{T1}	$K_{T0.7}$
100	0.00058	-0.011	-0.011	0.0048	-0.015	-0.0016	-0.00032
70	-0.0045	-0.0055	-0.0042	-0.0071	0.0029	-0.0017	0.00017



编号: 01-00-102

反远距型广角物镜

E.F. L=100

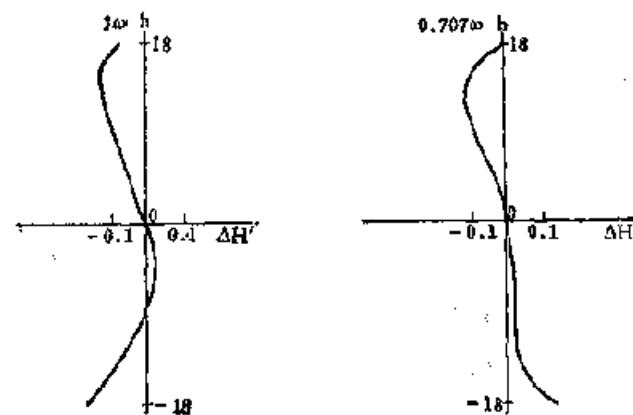
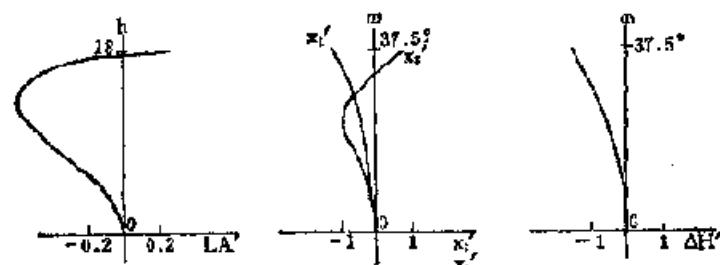
B.F. L=181.4

FNo. ≈ 2.8

F.A. = 76°

序号	r	d	n	v	序号	r	d	n	v
1	100.52	5.59	1.64250	58.1	9	301.4	17.56		
2	54.0	13.29			10	64.0	14.0	1.75520	27.5
3	128.85	3.85	1.62041	60.3	11	176.57	3.5		
4	70.25	31.47			12	300.0	7.7	1.69680	55.6
5	898.4	17.48	1.60342	37.8	13	61.1	0.95		
6	-625.0	0.35			14	1468.5	6.29	1.63854	55.5
7	97.17	30.0	1.71700	47.9	15	100.8			
8	-80.42	4.55	1.50137	56.5					

	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	H!	QP(1ω)
	-0.13	-0.0049	0.020	-0.17	-0.65	76.53	-1.95%
b 或 0%	LA'	$\Delta H'$	x_t'	x_s'	$x_t' - x_s'$	K_{T1}	$K_{T0.7}$
100	0.27	-1.49	-1.15	0.62	-1.77	-0.11	-0.092
70	-0.61	-0.73	-0.63	-0.81	0.17	0.062	-0.045



编号: 01-00-103

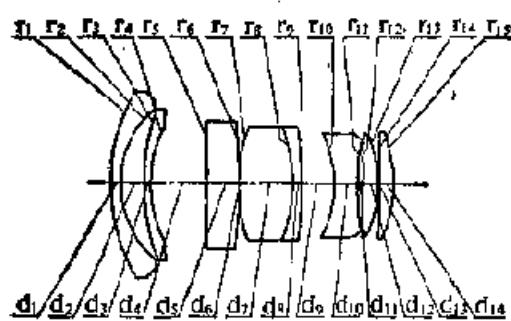
反远距型广角物镜

E. F. L = 100

B. F. L = 130.5

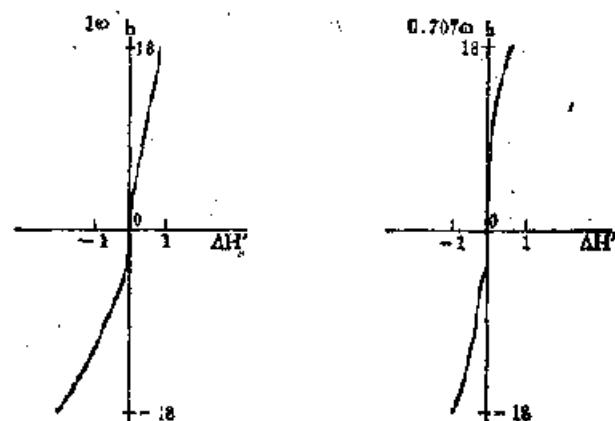
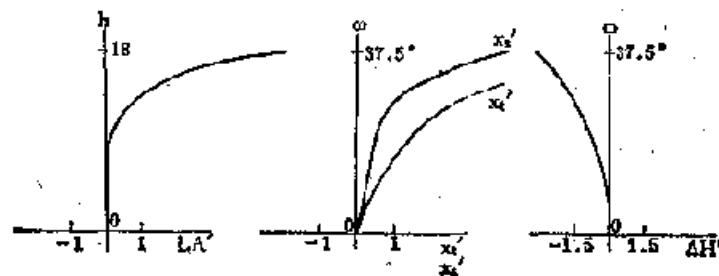
FNo. = 2.8

F. A. = 75°



序号	r	d	屈	ν	序号	r	d	屈	ν
1	103.15	5.89	1.65160	58.5	9	-302.45	17.58		
2	54.72	13.29			10	-63.29	14.0	1.72825	28.3
3	129.37	3.85	1.62230	53.1	11	176.6	3.5		
4	66.73	31.47			12	-234.26	7.0	1.71300	53.9
5	979.0	17.48	1.67270	32.3	13	-52.94	0.35		
6	-700.0	0.35			14	-1073.4	6.29	1.65160	58.5
7	97.2	31.12	1.72000	50.3	15	-93.7			
8	-50.4	4.55	1.50137	56.5					

	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	HI	QP(10)
	-0.017	-0.028	0.062	-0.041	-0.87	78.32	-3.86%
h 或 %	LA'	AH'	x_t	x_t'	$x_t - x_t'$	K_{T1}	$K_{T0.7}$
100	4.94	-3.03	8.70	4.30	4.40	-0.48	-0.27
70	0.73	-1.11	2.53	0.90	1.63	-0.093	-0.12



编号: 01-00-104

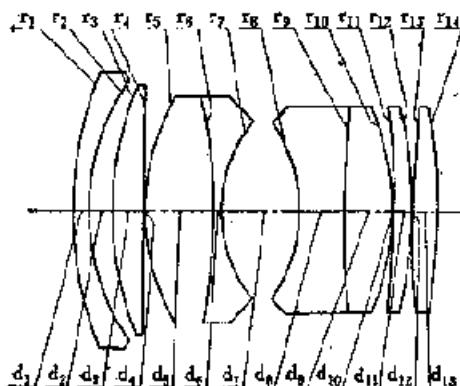
大孔径摄影或电影摄影物镜

E. F. L=1

B. F. L=0.7264

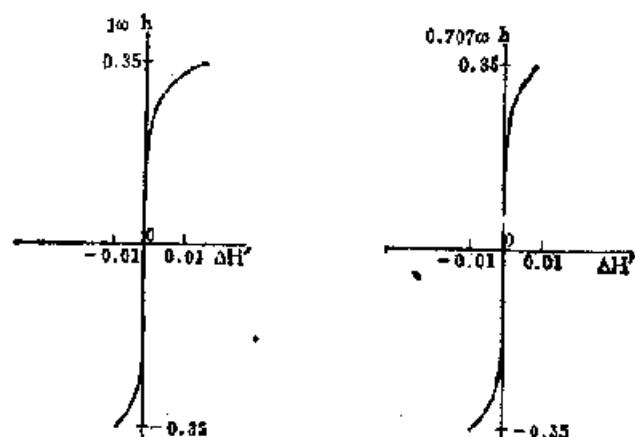
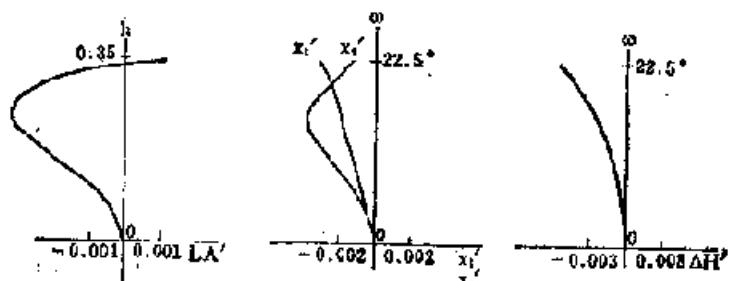
FNo. = 1.4

F. A. = 45°



序号	r	d	n _D	v _D	序号	r	d	n _D	v _D
1	0.9812	0.0479	1.56732	42.8	8	-0.4496	0.1245	1.80518	25.4
2	0.6297	0.0671			9	2.4070	0.1342	1.73443	43.9
3	0.9057	0.0852	1.78443	43.9	10	-0.7077	0.0019		
4	5.4044	0.0019			11	-3.2532	0.0575	1.73443	43.9
5	0.5554	0.1916	1.78179	37.1	12	-1.1153	0.0019		
6	-1.5370	0.0287	1.68893	31.2	13	3.5320	0.0671	1.73443	43.9
7	0.3789	0.2108			14	-1.6338			

	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_6	HI	QP(1ω)
	-0.0028	0.00043	0.00069	-0.0037	-0.0040	0.41	-1.39%
b 或 ω%	LA'	ΔH'	x _t	x _s	x _t -x _s	K _{T1}	K _{Re.7}
100	0.0010	-0.0057	-0.0032	-0.0013	-0.0018	0.0038	0.00083
70	-0.0032	-0.0022	-0.0021	-0.0020	0.0018	-0.00029	0.00038



编号: 01-00-105

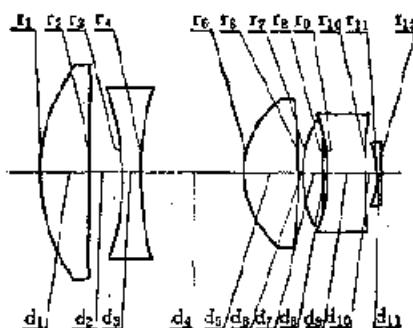
六片式珀兹伐型放映镜头

E. F. L = 100

B. F. L = 12.86

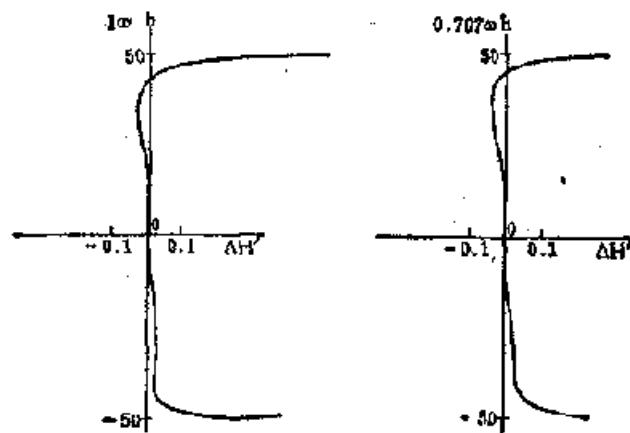
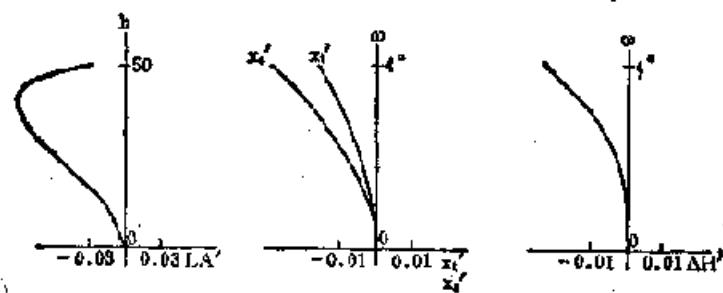
FNo. = 1.0

F. A. = 8°



序号	z	d	n_D	v_D	序号	z	d	n_D	v_D
1	107.3	27.6	1.713	53.9	7	63.48	10.7	1.713	53.9
2	-870.3	17.1			8	-2845	1.99		
3	-154.3	11.4	1.728	28.3	9	-151.9	22.5	1.755	27.5
4	232.0	56.8			10	321.0	4.95		
5	51.24	30.0	1.516	64.0	11	-50.70	8.18	1.755	27.5
6	-325.1	2.27			12	∞			

	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	HI	QP(1 ω)
	-0.16	0.0033	0.0034	-0.018	-0.021	7.00	-0.31%
h 或 ω %	LA'	$\Delta H'$	x_t'	x_t	$x_t' - x_t$	K_{T1}	$K_{T0.7}$
100	-0.038	-0.022	-0.016	-0.029	0.019	0.43	-0.013
70	-0.086	-0.0078	-0.0083	-0.015	0.0068	0.25	-0.011



编号: 01-00-106

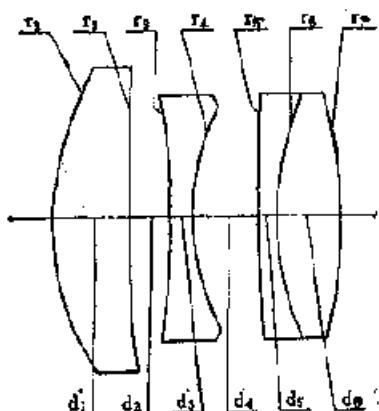
三组四片摄影物镜

E.F. L=100

B.F. L=79.77

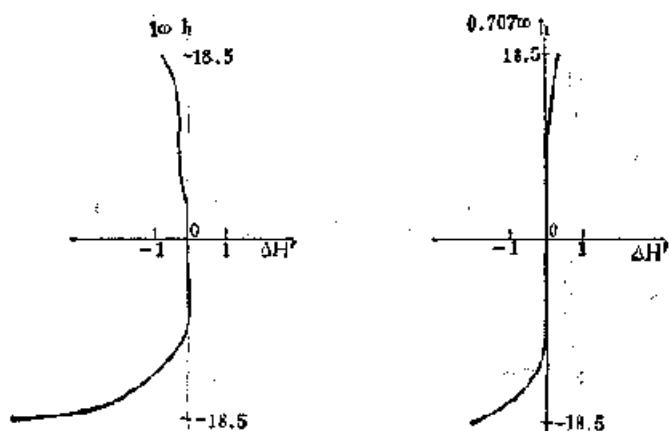
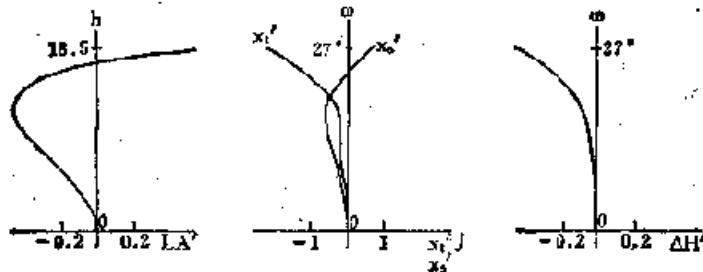
FNo. = 2.7

F.A. = $\pm 27^\circ$



序号	r	d	n	v	序号	r	d	n	v
1	39.0	10.7	1.73	51.0	5	432.7	2.9	1.62	36.6
2	494.6	5.8			6	42.9	6.7	1.74	44.9
3	-98.6	3.4	1.67	32.2	7	-63.4			
4	34.5	8.9							

	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	HJ	QP(1m)
	-0.12	0.055	0.032	-0.20	-0.012	52.01	-0.91%
h或w %	LA'	$\Delta H'$	x_1'	x_4'	$x_1' - x_4'$	K_{T1}	$K_{T0.7}$
100	0.54	-0.47	-2.10	0.60	-2.71	-2.63	-0.47
70	-0.47	-0.091	-0.27	-0.65	0.37	-0.87	-0.071



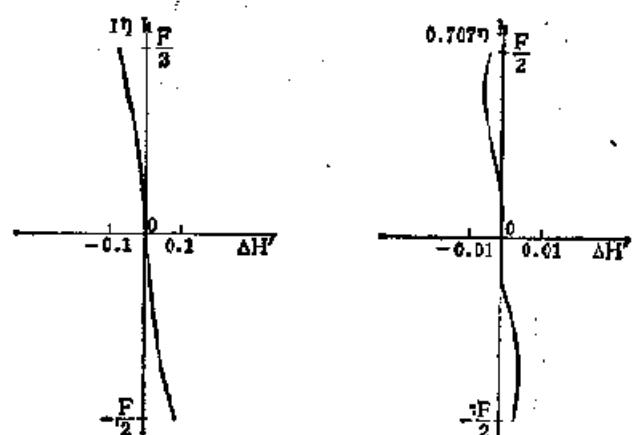
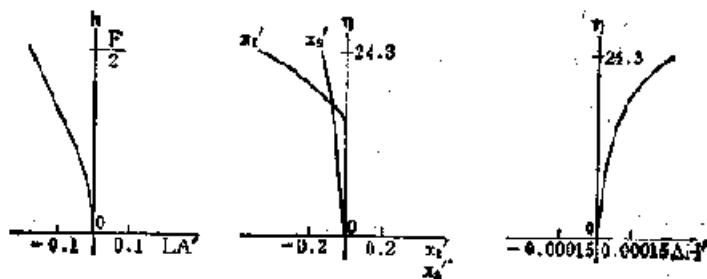
编号: 01-00-107

1:1 对称换向镜头

E.F. L=100 B.F. L=75.638 FNo. = 2 F. A. = $\beta = 1^\circ$ $\lambda = 436 \sim 656 \mu$

序号	r	d	n	v	序号	r	d	n	v
1	285.84	1.6	1.62004	36.3	10	-17.93	1.71	1.62004	36.3
2	71.95	8.0	1.62041	60.3	11	59.04	8.91	1.64831	33.8
3	-116.26	0.12			12	1027.80	10.85	1.62041	60.3
4	62.24	6.05	1.62041	60.3	13	-31.58	0.12		
5	544.73	0.12			14	-544.73	6.05	1.62041	60.3
6	31.58	10.85	1.62041	60.3	15	-82.24	0.12		
7	-1027.80	8.91	1.64831	33.8	16	113.26	8.0	1.62041	60.3
8	-59.04	1.71	1.62004	36.3	17	-71.95	1.6	1.62004	36.3
9	17.93	19.53			18	-285.84			

	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	HI	QP(1 ω)
	-0.0088	-0.0010	0.0094	-0.018	0.0011	-24.30	-0.0013%
h 或 ω %	LA'	$\Delta H'$	x_t'	x_s'	$x_t' - x_s'$	K_{T1}	$K_{T2,3}$
100	-0.19	0.00033	-0.49	0.15	-0.34	-0.0028	-0.0011
70	-0.12	0.00010	-0.025	-0.11	0.084	0.00037	-0.000086



编号: 01-00-108

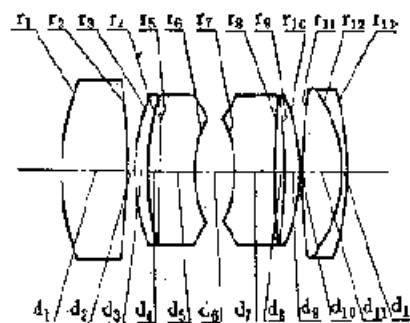
具有双分离负双透镜的高斯型摄影物镜

E. F. L = 100

B. F. L = 49.54

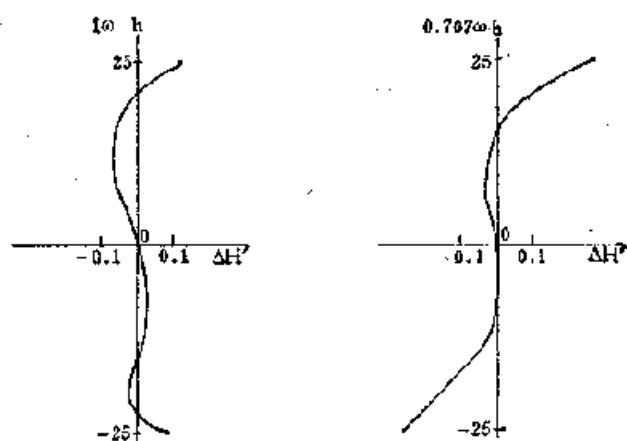
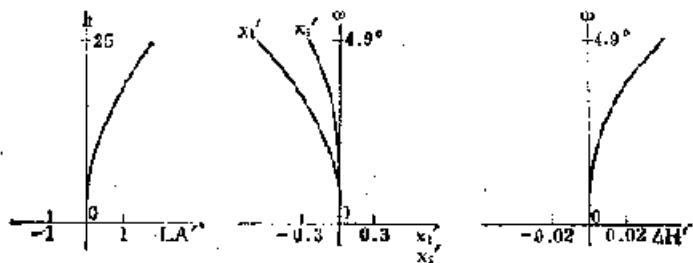
FNo. = 2

F. A. = $\pm 4.9^\circ$



序号	r	d	n _D	v _D	序号	r	d	n _D	v _D
1	66.300	17.42	1.75510	47.2	8	242.60	2.18		
2	-192.96	2.23			9	-133.01	4.63	1.69680	56.2
3	46.049	4.70	1.65820	57.2	10	-50.695	0.51		
4	108.97	2.36			11	118.25	10.95	1.68235	48.2
5	-352.61	10.08	1.69873	30.1	12	-37.751	1.41	1.62032	60.3
6	33.510	10.92			13	-73.381			
7	-33.285	12.15	1.61633	31.0					

	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	HII	QP(1ω)
	0.22	-0.036	-0.023	-0.0048	0.020	8.61	0.49%
h 或 ω %	LA'	$\Delta H'$	x_t'	x_s'	$x_t' - x_s'$	K_{T1}	$K_{T0.7}$
100	1.83	0.042	-0.66	0.23	-0.42	0.096	-0.066
70	0.93	0.014	-0.31	-0.11	-0.20	0.0075	-0.042



编号: 01-00-109

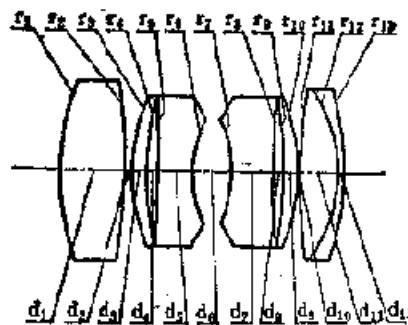
具有双分离负双透镜的高斯型摄影物镜

E. F. L = 100

B. F. L = 46.92

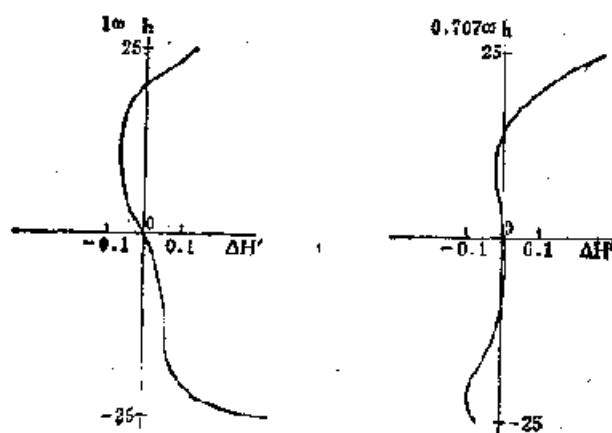
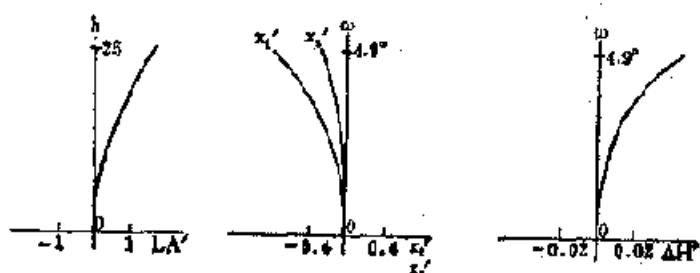
FNo. = 2

F. A. = $\pm 4.9^\circ$



序号	r	d	n	v	序号	r	d	n	v
1	65.1067	12.84	1.71289	53.8	8	308.53	7.67		
2	-146.65	0.14			9	-139.36	4.76	1.69680	56.2
3	49.156	5.12	1.71289	53.8	10	-61.245	1.74		
4	153.739	3.17			11	203.18	11.00	1.71289	53.8
5	-250.53	10.72	1.67250	32.0	12	-35.499	1.98	1.63918	45.2
6	32.111	11.34			13	-111.72			
7	-37.637	8.55	1.61700	36.6					

	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	III	QP(1 ω)
	0.21	-0.021	-0.020	-0.0038	0.021	8.62	0.52%
h 成 10%	LA'	$\Delta H'$	x_t'	x_t'	$x_t' - x_t'$	K_{T1}'	$K_{T0.7}'$
100	1.57	0.045	-0.81	-0.27	-0.53	0.23	0.031
70	0.85	0.015	-0.39	-0.13	-0.25	0.10	-0.0087



编号: 01-00-110

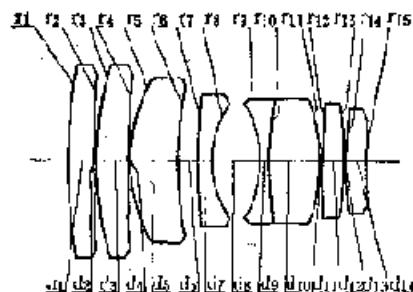
高分辨率透镜系统

E.F.L = 100

B.F.L = 45.94

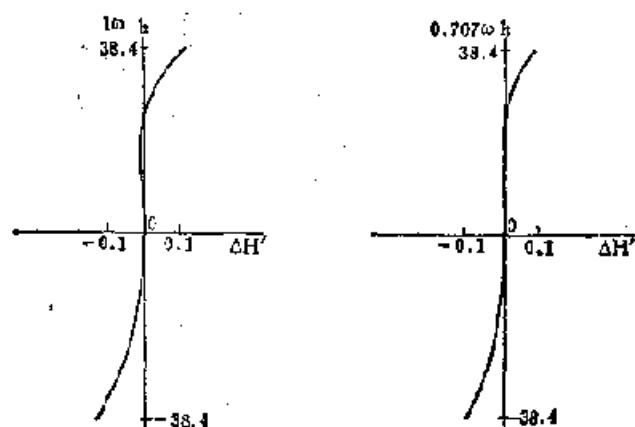
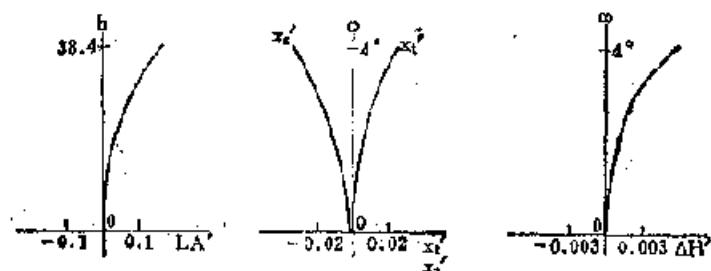
FNo. = 1.8

F.A. = $\pm 4^\circ$



序号	r	d	n _g	v _g	序号	r	d	n _g	v _g
1	155.0	10.20	1.77262	49.6	9	-41.5	4.00	1.57046	42.8
2	449.3	0.24			10	143.0	18.00	1.79025	50.1
3	123.0	12.00	1.73232	54.8	11	-68.8	0.20		
4	413.3	0.24			12	375.8	8.00	1.79025	50.1
5	57.0	17.70	1.67280	57.3	13	-153.3	0.20		
6	114.5	7.17			14	167.7	8.00	1.77752	50.6
7	220.4	5.40	1.81262	25.5	15	-2058.7			
8	36.8	18.00							

	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	H1	QP($i\omega$)
	0.018	-0.018	0.0086	-0.019	0.0042	6.99	0.081%
h 或 ω %	$\Delta A'$	$\Delta H'$	x_t'	x_s'	$x_t' - x_s'$	K_{T1}	$K_{T0.7}$
100	0.15	0.0057	0.023	-0.034	0.058	-0.0080	-0.023
70	0.061	0.0019	0.011	-0.018	0.029	-0.0038	-0.016



编号: 01-00-111

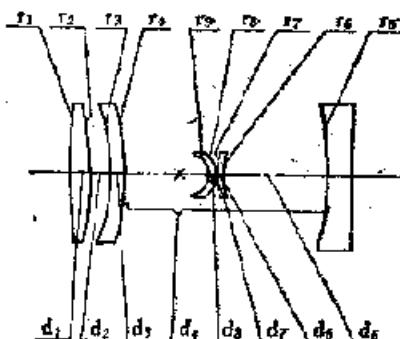
大孔径折反射物镜

E.F.L = 140

B.F.L = -12

FNo. = 0.95

F.A. = 5°



序号	r	d	n	v
1	1710.0	19.0	1.51872	64.17
2	-455.5	21.6		
3	-178.4	10.5	1.51872	64.17
4	-376.7	224.2		
5	-376.7*	-118.6		
6	145.6	-6.2		
7	147.5	-1.0	1.51872	64.17
8	-30.8	-6.2		
9	-25.5		1.51872	64.17

+ 表示反射面。

编号: 01-00-112

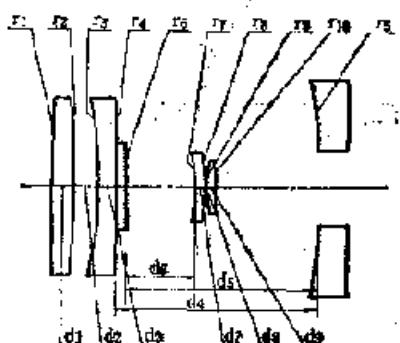
大孔径折反射物镜

E.F.L = 414

B.F.L = 40

FNo. = 1.2

F.A. = 5.8°



序号	r	d	n	v
1	2221.8	34	1.51872	64.71
2	-1313.0	35		
3	-609.9	25	1.51872	64.71
4	-2175.0	301		
5	-921.5*	-291		
6	∞^+	103		
7	-170.6	12	1.72311	28.51
8	-276.4	3		
9	176.8	12	1.51872	64.17
10	-254.0			

+ 表示反射面。

编号: 01-00-113

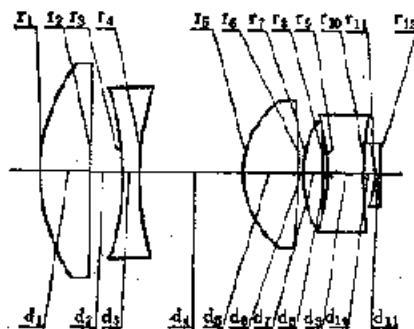
六片式珀兹伐型放映镜头

E. F. L = 100

B. F. L = 13.45

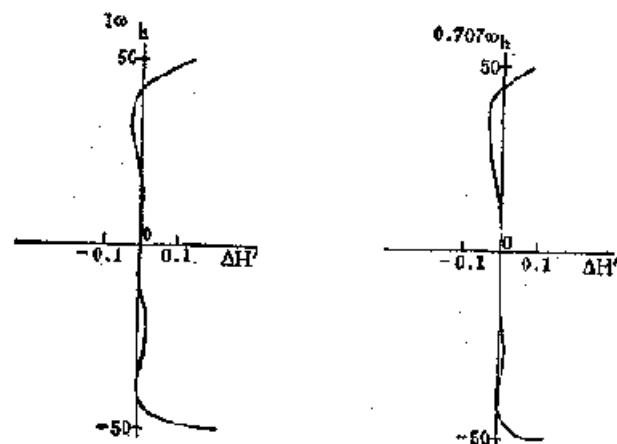
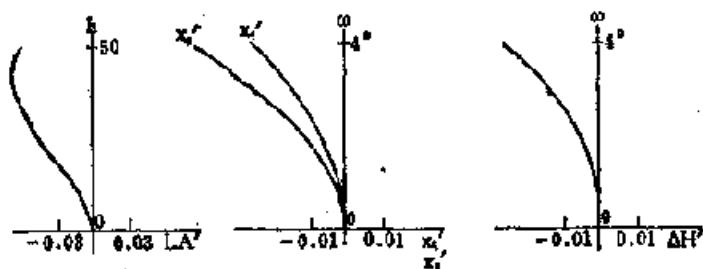
FNo. = 1.0

F. A. = 8°



序号	r	d	n _D	v _D	序号	r	d	n _D	v _D
1	107.3	27.6	1.713	53.9	7	63.48	10.7	1.713	53.9
2	-870.3	17.1			8	-2545	1.99		
3	-154.3	11.4	1.723	28.3	9	-151.9	22.5	1.755	27.5
4	232.0	56.8			10	321.0	4.95		
5	51.24	30.0	1.516	64.0	11	-60.70	3.18	1.755	27.5
6	-325.1	2.27			12	∞			

	ΣS ₁	ΣS ₂	ΣS ₃	ΣS ₄	ΣS ₅	HI	QP(1ω)
	-0.11	0.0029	0.0044	-0.026	-0.025	3.99	-0.37%
b 或 ω %	LA'	ΔH'	x ₁ '	x ₃ '	x ₄ '-x ₁ '	K _{T1} '	K _{T0.7} '
100	-0.060	-0.026	-0.035	-0.043	0.017	0.16	-0.012
70	-0.060	-0.0091	-0.013	-0.021	0.0087	0.09	-0.011



编号: 01-00-114

摄 影 物 镜

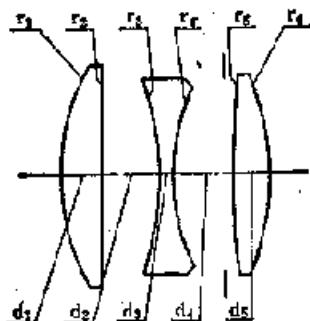
E. F. L = 100

B. F. L =

FNo. = 2.8

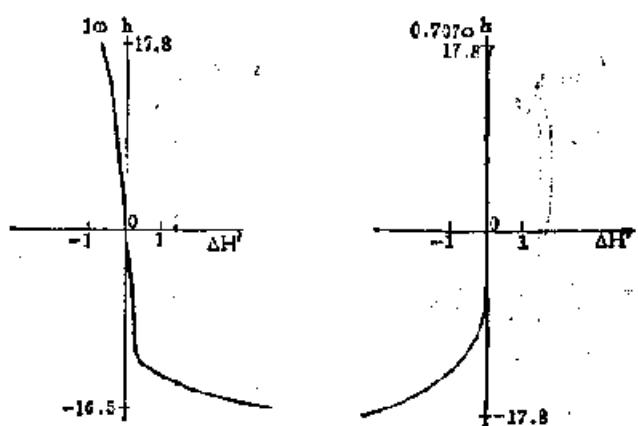
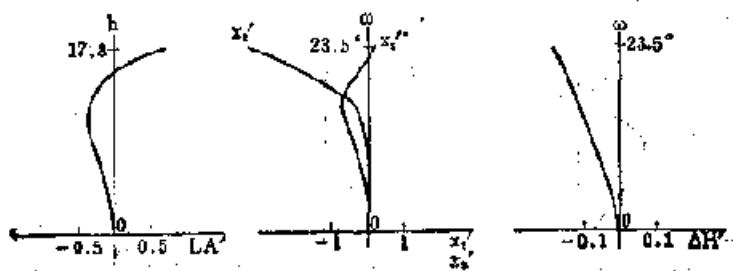
F. A. = 47°

Lp' = 100



序号	r	d	n _d	v	序号	r	d	n _d	v
1	42.81	7.476	1.65844	50.84	4	41.27	11.265		
2	-7013.04	10.241			5	167.23	6.798	1.6910	54.80
3	-60.91	2.969	1.67270	32.23	6	-47.56			

	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	Hl	QP(10)
	-0.1	0.368	0.028	-0.2	-0.07	46.4	-0.4%
h 或 ∞ %	LA'	$\Delta H'$	x_t'	x_s'	$x_t' - x_s'$	K_{T1}'	$K_{T9.7}'$
100	0.69	-0.18	-0.3	0.002	3.3	6.04	-0.11
70	0.58	-0.125	-0.3	-0.87	0.57	-1.9	-0.26



● 此系参考数据。

编号: 01-00-115

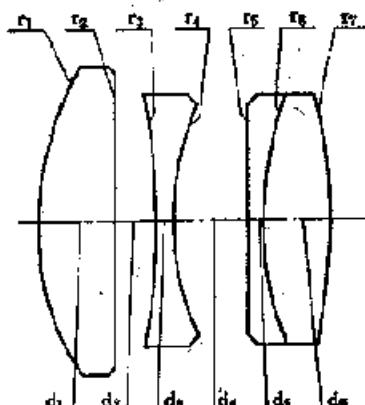
摄 影 物 镜

E.F.L = 100

B.F.L =

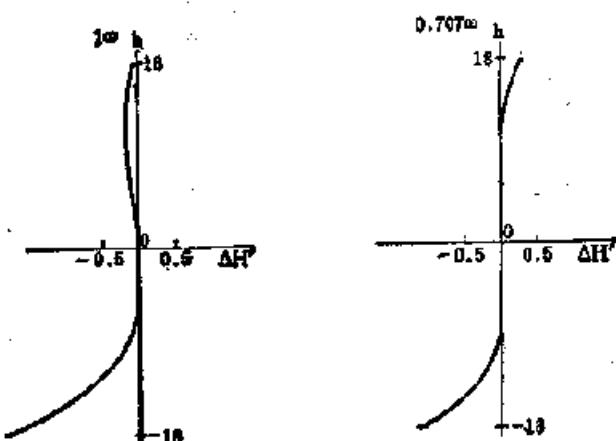
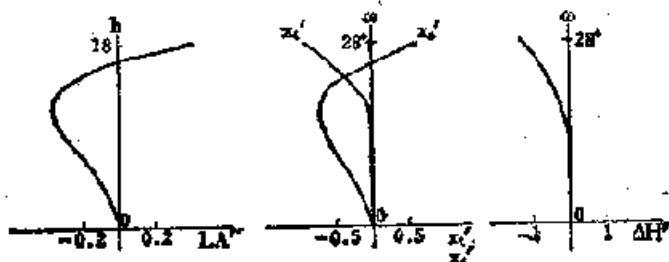
FNo. = 2.8

F. A. = 56°



序号	r	d	n_a	v	序号	r	d	n_a	v
1	39.265	10.32	1.7130	53.89	5	268.753	2.39	1.6261	39.18
2	283.685	5.60			6	50.234	9.49	1.7550	53.28
3	-99.940	2.53	1.6236	36.75	7	-69.533			
4	35.715	9.63							

	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	HII	QP(1 ω)
	-0.09	0.0079	0.04	-0.22	-0.2	53	2.7%
h 或 ϕ %	LA'	$\Delta H'$	x_t'	x_4'	$x_t' - x_4'$	K_{T1}	K_{T2-7}
100	0.42	-1.4	-0.80	0.6	-1.5	-1.6	-0.4
70	-0.86	-0.34	-0.15	-0.75	0.59	-0.4	-0.07



编号: 01-00-116

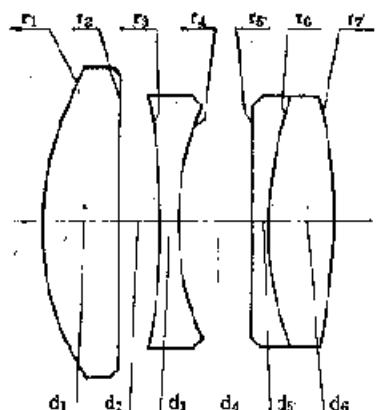
摄 影 物 镜

E. F. L = 100

B. F. L =

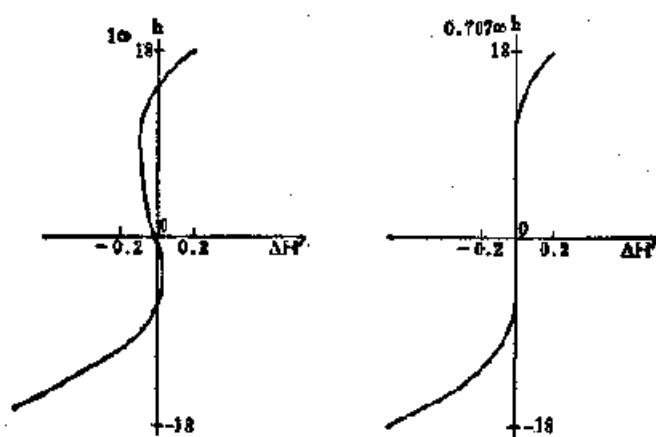
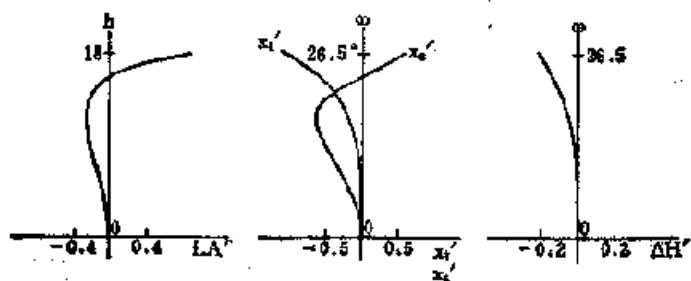
FNo. = 2.8

F. A. = 53°



序号	r	d	n _d	v	序号	r	d	n _d	v
1	42.348	8.48	1.7385	51.04	5	∞	7.55	1.6204	37.97
2	889.654	7.25			6	53.647	7.61	1.7440	44.30
3	-72.448	1.97	1.6547	32.87	7	-52.794			
4	39.706	8.95							

	ΣS ₁	ΣS ₂	ΣS ₃	ΣS ₄	ΣS ₅	HI	QP(10 ³)
	-0.10	0.02	0.03	-0.19	-0.03	50	-0.45%
h 或 w%	LA'	ΔH'	x _e '	x ₁ '	x ₁ '-x ₂ '	K _{T1}	K _{T0.7}
100	0.80	-0.2	-1.1	0.57	-1.6	-0.9	-0.24
70	-0.36	-0.06	-0.19	-0.68	0.439	-0.4	-0.07



编号: 01-00-117

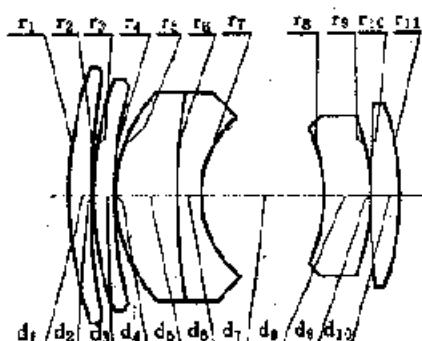
六片式改型高斯摄影物镜

E. F. L = 1.0

B. F. L = 0.5345

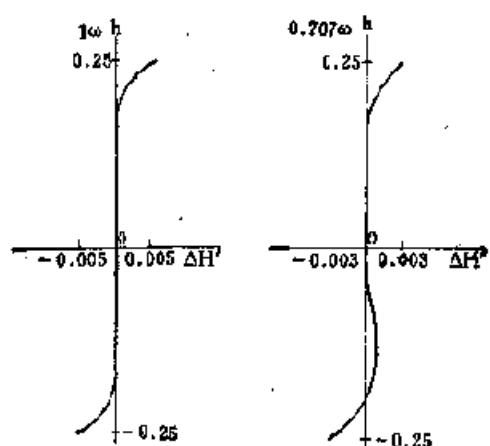
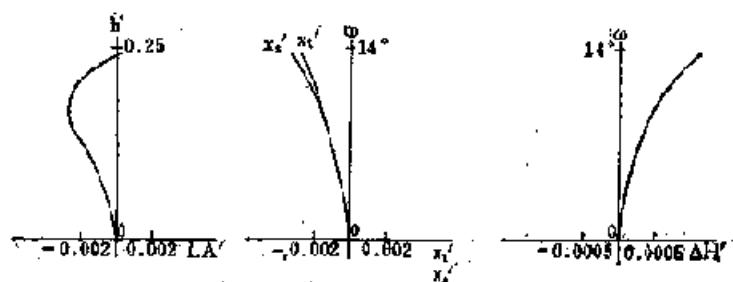
FNo. = 2

F. A. = $\pm 14^\circ$



序号	r	d	n _d	v _d	序号	r	d	n _d	v _d
1	0.55202	0.05208	1.69100	54.80	7	0.21352	0.23553		
2	0.95375	0.00056			8	-0.30375	0.08936	1.72825	28.34
3	0.57639	0.04616	1.69100	54.80	9	-0.47801	0.00059		
4	0.80828	0.00059			10	10.70056	0.06155	1.69100	54.80
5	0.34086	0.10770	1.69100	54.80	11	-0.52482			
6	1.90296	0.03847	1.66680	53.09					

	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	ΣH	QP(10)
	-0.0012	-0.00014	-0.000016	0.00053	0.00072	0.25	0.46%
h 或 ϕ %	LA'	$\Delta H'$	x_1'	x_5'	$x_1' - x_5'$	K_{T1}'	$K_{T0.7}'$
100	0.0000055	0.0011	-0.0025	-0.0028	0.00027	0.00068	0.00012
70	-0.0027	0.00046	-0.0018	-0.0018	-0.00002	-0.000019	-0.00008



编号: 01-00-118

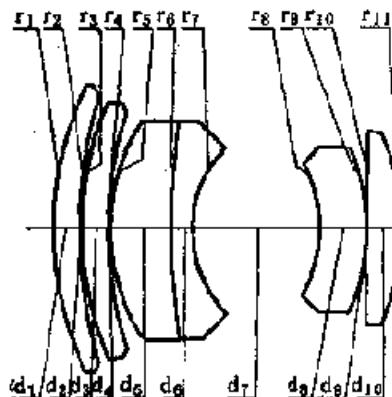
六片式改型高斯摄影物镜

E. F. L = 1.0

B. F. L = 0.4934

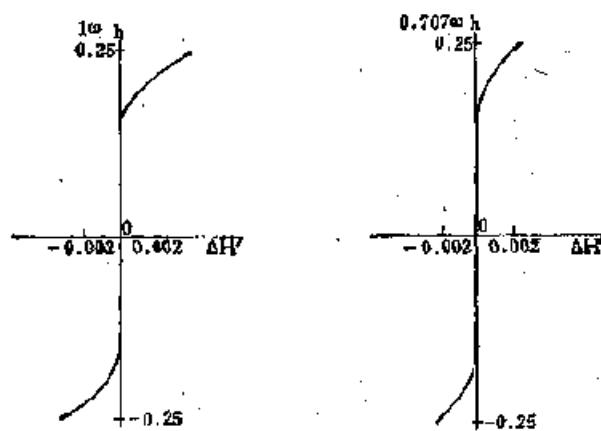
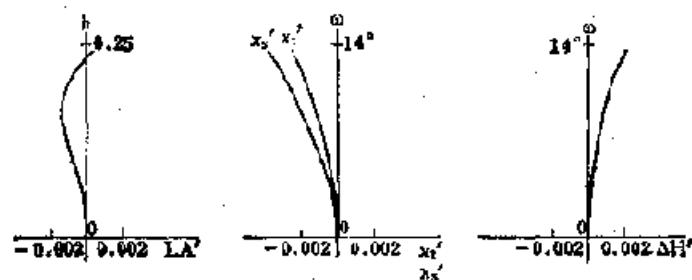
FNo. = 2

F. A. = $\pm 14^\circ$



序号	r	d	n_d	v_d	序号	r	d	n_d	v_d
1	0.74046	0.05378	1.62041	60.29	7	0.21479	0.25122		
2	1.70593	0.00119			8	-0.31907	0.10120	1.78472	25.51
3	0.68906	0.04167	1.62041	60.29	9	-0.45729	0.00060		
4	1.03103	0.00119			10	3.16788	0.05715	1.62041	60.29
5	0.33074	0.11906	1.69100	54.80	11	-0.60101			
6	1.27493	0.05001	1.66090	32.83					

	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	HI	QP(10 ⁴)
	-0.00070	-0.00013	0.000047	0.00070	0.0011	0.24	0.84%
h 或 ω %	LA'	$\Delta H'$	x_t'	x_s'	$x_t' - x_s'$	K_{11}	$K_{10,7}$
100	0.00026	0.002	-0.0035	-0.0036	0.0011	0.00088	0.00007
70	-0.0015	0.00079	-0.0018	-0.0022	0.00045	0.0061	-0.00007



编号: 01-00-119

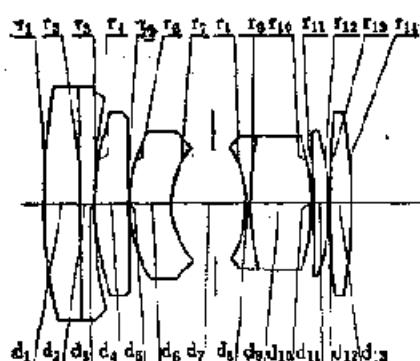
摄 影 物 镜

E.F.L=1.0

B.F.L=0.6789

FNo. = 1.4

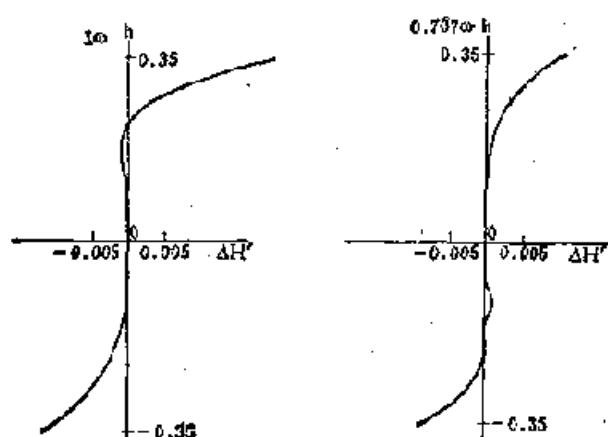
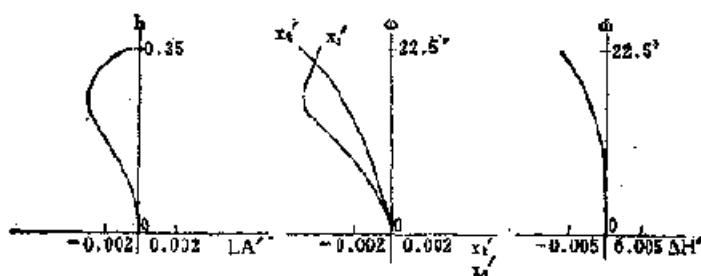
F.A. = $\pm 22.5^\circ$



序号	r	d	n _d	v	序号	r	d	n _d	v
1	1.67579	0.11518	1.78443	43.77	8	-0.39750	0.05339	1.80516	25.46
2	-7.37419	0.08009	1.72151	29.28	9	1.03072	0.18990	1.78443	43.77
3	2.03690	0.01226			10	-0.69229	0.00095		
4	0.86394	0.13780	1.78443	43.77	11	-17.76637	0.06865	1.78443	43.77
5	2.73483	0.00341			12	-0.92290	0.00095		
6	0.49001	0.14512	1.80518	25.46	13	3.31300	0.05721	1.78443	43.77
7	0.33916	0.26299*			14	-2.16591			

$$0.26299^* = 0.13000 + 0.13299$$

r	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	H1	QP(100)
	-0.0023	0.00064	0.00095	-0.0045	-0.0046	0.41	-1.5%
h 或 ω %	LA'	$\Delta H'$	x_t'	x_4'	$x_t' x_4'$	K_{T1}	$K_{Tn,7}$
100	-0.0004	-0.0062	-0.0052	-0.0042	-0.0008	0.0018	-0.0005
70	-0.0028	-0.0025	-0.0025	-0.0050	-0.0028	0.0008	0.0002



编号: 01-00-120

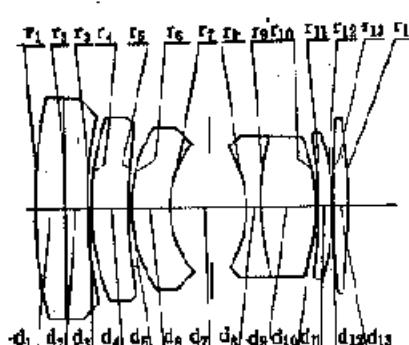
摄 影 物 镜

E.F.L = 1.0

B.F.L = 0.6753

FNo. = 1.4

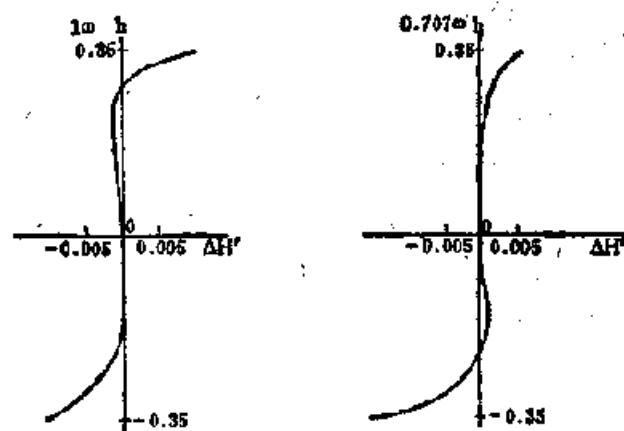
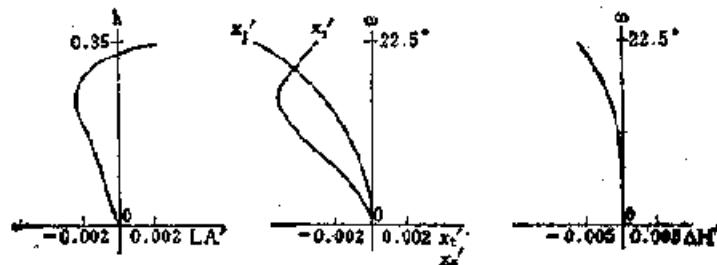
F.A. = $\pm 22.5^\circ$



序号	r	d	n _d	v	序号	r	d	n _d	v
1	2.11494	0.12622	1.73443	43.77	8	0.38986	0.02867	1.80518	25.46
2	-6.13521	0.05737	1.72151	29.28	9	1.20862	0.21037	1.78443	43.77
3	1.60543	0.00191			10	-0.87370	0.00191		
4	0.93127	0.12239	1.73443	43.77	11	-8.18072	0.06885	1.78443	43.77
5	3.21568	0.00191			12	-0.87319	0.00096		
6	0.46674	0.15299	1.80518	25.46	13	3.03081	0.08693	1.78443	43.77
7	0.33282	0.26304			14	-2.20805			

$$0.28304^* = -0.18000 + 0.10304$$

ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	HI	QP(100)
-0.0024	0.00093	0.00073	-0.0043	-0.0046	0.41	-1.4%
h 或 ϕ %	LA'	$\Delta H'$	x_t'	x_s'	$x_t - x_s$	K_{T1}
100	0.0021	-0.006	-0.0062	-0.0032	-0.0029	-0.006
70	-0.0023	-0.0025	-0.0026	-0.0048	0.0021	-0.0054



编号: 01-00-121

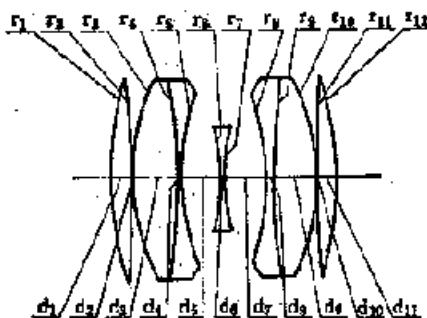
物 镜

E.F.L=1.0

B.F.L=

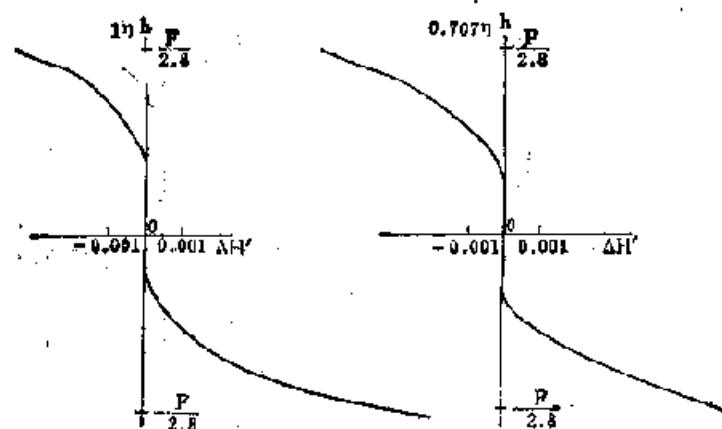
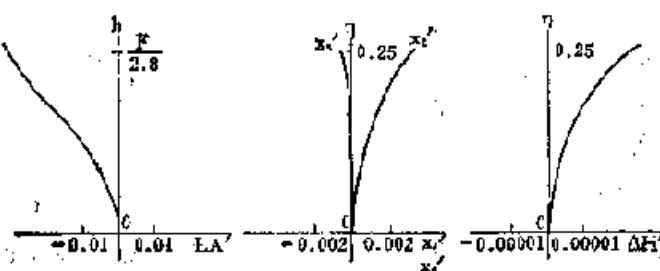
FNo.=2.0

F.A.=



序号	r	d	n _d	v	序号	r	d	n _d	v
1	0.65427	0.05664	1.720	50.3	7	0.63219	0.10456		
2	-3.1321	0			8	-0.72631	0.10743	1.613	36.9
3	0.59031	0.12025	1.613	59.3	9	1.7723	0.12025	1.613	59.3
4	-1.7723	0.01743	1.613	36.9	10	-0.59031	0		
5	0.72631	0.10456			11	0.1321	0.05664	1.720	50.3
6	-0.63219	0.01742	1.613	36.9	12	-0.85427			

	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	III	$Q^2(1\omega)$
	-0.0029	0.00037	0.00012	-0.00014	0.0000097	0.120	-0.019%
h 或 ω %	LA'	$\Delta H'$	x_1'	x_2'	$x_1' - x_2'$	K_{11}'	$K_{13,7}'$
100	-0.033	0.000024	0.0034	-0.00023	0.0037	0.0018	0.0013
70	-0.02	0.000009	0.0017	-0.00016	0.0018	0.0012	0.0009



编号: 01-00-122

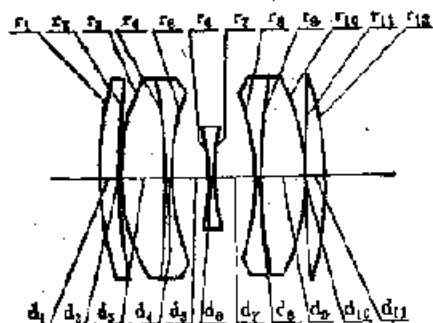
物 镜

E.F.L=1.0

B.F.L=

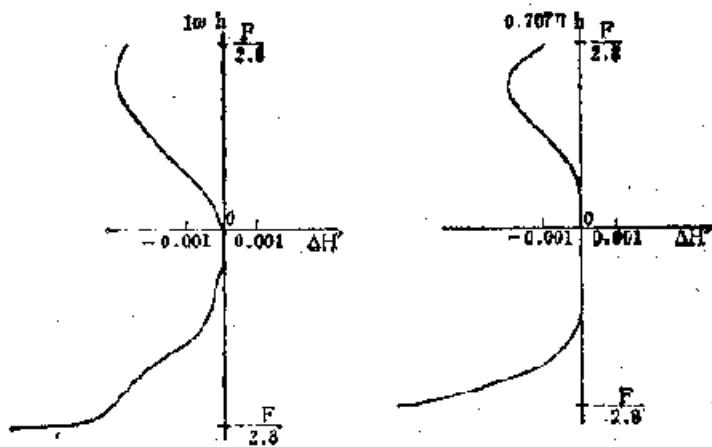
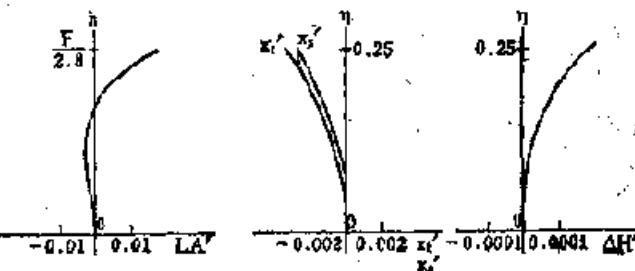
FNo.=2.8

F.A.=



序号	r	d	nd	v	序号	r	d	nd	v
1	3.63532	0.03698	1.72050.3		7	0.45604	0.02776		
2	20.0321	0			8	-0.72446	0.01742	1.61336.9	
3	0.63321	0.14622	1.61359.3		9	-0.64629	0.17042	1.61359.3	
4	∞	0.01743	1.61336.9		10	-0.58913	0.00908		
5	0.70192	0.06061			11	1.33561	0.23218	1.72050.3	
6	-1.04929	0.02184	1.61336.9		12	-1.31201			

	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	HII	QP(10)
	-0.00051	-0.00037	-0.0000079	-0.00012	0.000063	0.15	-0.12%
h 变0%	L.A'	$\Delta H'$	x_t'	x_s	$x_t' - x_s'$	K_{t1}	$K_{t0,1}$
100	0.017	0.00018	-0.0033	-0.00293	-0.0004	-0.004	-0.002
70	0.00012	0.00006	-0.00169	-0.0015	-0.00019	-0.003	-0.0014



编号: 01-00-123

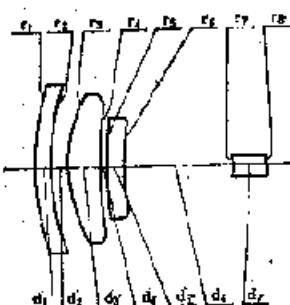
红外远摄物镜

E.F. L=100

B.F. L=1.48

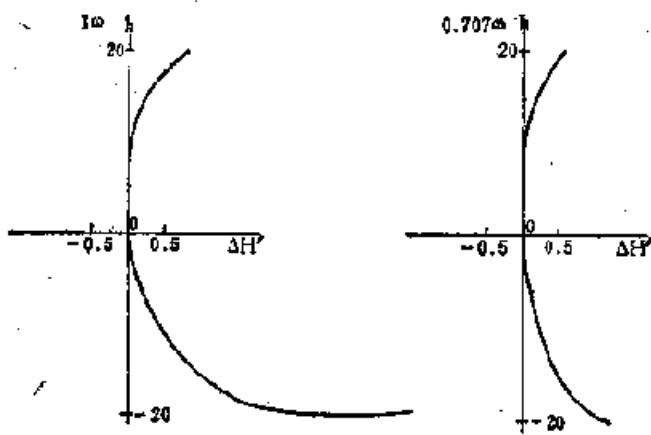
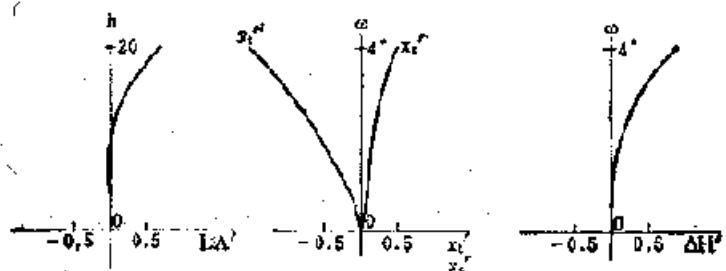
FNo. = 2.5

F.A. = $\pm 4^\circ$



序号	r	d	n	v	序号	r	d	n	v
1	66.04	4.6	3.42		5	193.7	4.9	4.02	
2	61.72	5.0			6	72.0	30.0		
3	41.60	8.6	3.42		7	- 7.92	9.3	4.02	
4	118.6	2.05			8	- 26.66			

	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	HI	QP(1ω)
	-0.0047	0.082	-0.080	0.12	0.25	7.4	11%
h或ω%	$\Delta A'$	$\Delta H'$	x_t'	x_t'	$x_t' - x_s'$	K_{t1}	$K_{t0,1}$
100	0.89	0.83	-1.55	0.49	-2.03	2.5	0.5
70	0.14	0.26	-0.79	0.28	-1.07	0.8	0.28



编号: 01-00-124

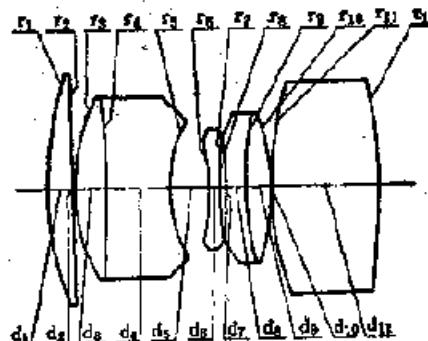
透 镜 系 统

E.F.L = 1.0

B.F.L =

FNo. = 2

F.A. = $\pm 20^\circ$



序号	r	d	n ₄	v	序号	r	d	n ₄	v
1	0.9144	0.0700	1.6910	54.8	7	1.3921	0.0165		
2	-20.559	0			8	-1.6815	0.0618	1.7484	27.8
3	0.5288	0.0386	1.6258	35.7	9	1.2955	0.0676	1.6910	54.8
4	-2.3553	0.1794	1.6484	27.8	10	-0.5666	0		
5	0.3930	0.1097			11	0.9260	0.3016	1.6910	54.8
6	-0.5513	0.0300	1.5097	64.4	12	-1.5483			

	ΣS_1	ΣS_2	ΣS_3	ΣS_4	ΣS_5	H1	QP(%)
	-0.0019	-0.00033	-0.00044	-0.0034	-0.0029	0.32	2.8%
h 或 ω %	LA'	$\Delta H'$	x_1'	x_2'	$x_2' - x_1'$	K ₂₁	K _{22,3}
100	-0.01	0.009	-0.03	-0.013	-0.018	-0.00091	-0.00028
70	-0.0057	0.0028	-0.013	-0.0098	-0.0032	-0.002	-0.00025

