

CN20x50 IAS H 1x

許容錯乱円 / Permissible circle of confusion / 允许弥散圆 : 0.01mm

f = 50mm

IRIS / 光圈	T5		T8		T11		T16		T22	
Hyperfocal distance 超焦距	176.51		112.74		79.96		56.80		40.41	
Object distance 物距	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远
200	94.48	∞	72.77	∞	57.72	∞	44.73	∞	34.02	∞
80	55.67	143.13	47.50	261.74	40.72	5338.70	33.92	∞	27.49	∞
50	39.46	68.45	35.26	86.85	31.45	125.58	27.32	344.25	23.07	∞
40	33.05	50.79	30.08	60.09	27.31	76.07	24.18	122.47	20.83	952.66
30	26.00	35.51	24.17	39.70	22.39	45.91	20.29	59.07	17.93	100.02
25	22.21	28.63	20.89	31.23	19.57	34.86	17.97	41.78	16.13	58.30
20	18.22	22.18	17.35	23.66	16.46	25.61	15.35	29.04	14.02	35.88
17	15.73	18.50	15.10	19.49	14.43	20.76	13.59	22.88	12.57	26.79
15	14.03	16.13	13.53	16.85	13.01	17.77	12.34	19.26	11.51	21.87
13	12.29	13.81	11.92	14.32	11.52	14.95	11.01	15.95	10.36	17.64
11.5	10.96	12.11	10.67	12.48	10.36	12.94	9.96	13.66	9.44	14.83

f = 75mm

IRIS / 光圈	T5		T8		T11		T16		T22	
Hyperfocal distance 超焦距	395.59		252.15		178.44		126.32		89.47	
Object distance 物距	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远
200	133.41	400.31	112.16	935.27	94.94	∞	78.03	∞	62.36	∞
80	66.90	99.54	61.20	115.68	55.78	141.97	49.58	209.42	42.87	641.59
50	44.64	56.84	42.08	61.65	39.49	68.26	36.34	80.48	32.66	107.85
40	36.54	44.20	34.82	47.02	33.05	50.71	30.84	57.06	28.18	69.38
30	28.05	32.25	27.05	33.69	25.99	35.50	24.63	38.43	22.94	43.52
25	23.65	26.51	22.95	27.46	22.20	28.63	21.21	30.47	19.97	33.52
20	19.15	20.93	18.70	21.50	18.21	22.19	17.56	23.25	16.72	24.94
17	16.40	17.65	16.07	18.05	15.72	18.52	15.24	19.23	14.62	20.34
15	14.54	15.49	14.29	15.79	14.01	16.14	13.64	16.67	13.15	17.48
13	12.66	13.36	12.48	13.57	12.27	13.82	11.99	14.20	11.62	14.76
11.5	11.24	11.77	11.10	11.93	10.94	12.12	10.72	12.40	10.43	12.82

f = 100mm

IRIS / 光圈	T5		T8		T11		T16		T22	
Hyperfocal distance 超焦距	702.58		447.58		316.54		223.89		158.38	
Object distance 物距	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远
200	156.07	278.41	138.71	358.56	123.09	534.06	106.20	1736.15	88.94	∞
80	72.03	89.96	68.16	96.84	64.22	106.10	59.37	122.69	53.65	157.54
50	46.82	53.65	45.18	55.98	43.44	58.90	41.20	63.59	38.41	71.67
40	37.96	42.28	36.88	43.69	35.73	45.43	34.22	48.14	32.29	52.57
30	28.86	31.24	28.24	31.99	27.58	32.89	26.68	34.26	25.52	36.41
25	24.21	25.84	23.79	26.34	23.32	26.95	22.69	27.84	21.85	29.22
20	19.50	20.52	19.23	20.83	18.93	21.20	18.52	21.74	17.97	22.55
17	16.65	17.37	16.45	17.58	16.24	17.84	15.94	18.21	15.54	18.77
15	14.73	15.28	14.58	15.45	14.41	15.64	14.18	15.92	13.87	16.33
13	12.80	13.21	12.69	13.33	12.57	13.47	12.39	13.67	12.16	13.96
11.5	11.35	11.66	11.26	11.75	11.17	11.85	11.03	12.01	10.85	12.23

CN20x50 IAS H 1x

許容錯乱円 / Permissible circle of confusion / 允许弥散圆 : 0.01mm

f = 200mm

IRIS / 光圈	T5		T8		T11		T16		T22	
Hyperfocal distance 超焦距	2808.93		1788.92		1264.74		894.15		632.09	
Object distance 物距	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远
200	186.79	215.21	180.02	224.95	172.86	237.21	163.66	256.99	152.19	291.35
80	77.82	82.30	76.63	83.67	75.32	85.30	73.54	87.70	71.15	91.33
50	49.15	50.88	48.68	51.40	48.15	52.00	47.42	52.87	46.43	54.16
40	39.46	40.56	39.15	40.88	38.81	41.26	38.34	41.80	37.70	42.60
30	29.70	30.31	29.53	30.49	29.34	30.69	29.07	30.99	28.70	31.42
25	24.79	25.21	24.67	25.34	24.54	25.48	24.35	25.68	24.10	25.97
20	19.87	20.13	19.79	20.21	19.71	20.30	19.59	20.43	19.42	20.61
17	16.91	17.10	16.85	17.15	16.79	17.21	16.71	17.30	16.59	17.43
15	14.93	15.07	14.89	15.12	14.84	15.17	14.77	15.23	14.68	15.33
13	12.95	13.06	12.91	13.09	12.88	13.12	12.83	13.17	12.76	13.25
11.5	11.46	11.54	11.43	11.57	11.41	11.60	11.37	11.64	11.31	11.69

f = 500mm

IRIS / 光圈	T5		T8		T11		T16		T22	
Hyperfocal distance 超焦距	17559.06		11184.02		7907.90		5591.69		3953.84	
Object distance 物距	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远
200	197.76	202.29	196.51	203.61	195.10	205.15	193.14	207.36	190.44	210.57
80	79.64	80.36	79.44	80.57	79.21	80.80	78.89	81.14	78.44	81.62
50	49.86	50.14	49.78	50.22	49.70	50.31	49.57	50.44	49.39	50.62
40	39.91	40.09	39.86	40.14	39.81	40.20	39.73	40.28	39.61	40.39
30	29.95	30.05	29.92	30.08	29.89	30.11	29.85	30.15	29.79	30.22
25	24.97	25.03	24.95	25.05	24.93	25.07	24.90	25.11	24.85	25.15
20	19.98	20.02	19.97	20.03	19.95	20.05	19.93	20.07	19.91	20.09
17	16.98	17.02	16.98	17.02	16.97	17.03	16.95	17.05	16.93	17.07
15	14.99	15.01	14.98	15.02	14.97	15.03	14.96	15.04	14.95	15.05
13	12.99	13.01	12.99	13.01	12.98	13.02	12.97	13.03	12.96	13.04
11.5	11.49	11.51	11.49	11.51	11.49	11.51	11.48	11.52	11.47	11.53

f = 1000mm

IRIS / 光圈	T8.9		T11		T16		T22	
Hyperfocal distance 超焦距	36359.18		29168.89		20627.53		14587.72	
Object distance 物距	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远
200	198.95	201.07	198.69	201.33	198.15	201.89	197.39	202.68
80	79.84	80.16	79.80	80.20	79.72	80.28	79.60	80.40
50	49.94	50.06	49.93	50.07	49.90	50.11	49.85	50.15
40	39.96	40.04	39.95	40.05	39.94	40.06	39.91	40.09
30	29.98	30.02	29.98	30.02	29.97	30.03	29.95	30.05
25	24.99	25.01	24.98	25.02	24.98	25.02	24.97	25.03
20	19.99	20.01	19.99	20.01	19.99	20.01	19.98	20.02
17	16.99	17.01	16.99	17.01	16.99	17.01	16.99	17.01
15	15.00	15.00	15.00	15.00	14.99	15.01	14.99	15.01
13	13.00	13.00	13.00	13.00	13.00	13.00	12.99	13.01
11.5	11.50	11.50	11.50	11.50	11.50	11.50	11.50	11.50

CN20x50 IAS H 1.5x

許容錯乱円 / Permissible circle of confusion / 允许弥散圆 : 0.01mm

f = 50mm ×1.5

IRIS / 光圈	T5×1.5		T8×1.5		T11×1.5		T16×1.5		T22×1.5	
Hyperfocal distance 超焦距	264.22		168.62		119.48		84.75		60.19	
Object distance 物距	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远
200	114.55	802.71	92.21	∞	75.49	∞	60.14	∞	46.78	∞
80	61.93	113.26	54.90	148.68	48.62	231.65	41.89	1120.28	35.07	∞
50	42.43	60.93	39.08	69.66	35.86	83.32	32.13	115.53	28.04	257.10
40	35.07	46.58	32.78	51.43	30.52	58.40	27.81	72.31	24.74	109.44
30	27.21	33.46	25.84	35.82	24.45	38.97	22.72	44.54	20.67	55.93
25	23.07	27.30	22.10	28.82	21.09	30.78	19.82	34.08	18.27	40.21
20	18.78	21.40	18.15	22.29	17.49	23.41	16.63	25.20	15.56	28.29
17	16.13	17.97	15.68	18.58	15.20	19.32	14.56	20.49	13.76	22.42
15	14.34	15.73	13.99	16.18	13.61	16.73	13.11	17.57	12.47	18.94
13	12.52	13.52	12.26	13.84	11.98	14.23	11.60	14.82	11.11	15.74
11.5	11.13	11.89	10.93	12.13	10.72	12.42	10.43	12.84	10.04	13.51

f = 75mm ×1.5

IRIS / 光圈	T5×1.5		T8×1.5		T11×1.5		T16×1.5		T22×1.5	
Hyperfocal distance 超焦距	593.59		378.31		267.68		189.47		134.16	
Object distance 物距	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远
200	150.10	299.91	131.44	419.57	115.13	771.03	97.96	∞	80.94	∞
80	70.78	92.01	66.42	100.64	62.07	112.72	56.81	135.79	50.74	191.29
50	46.31	54.34	44.44	57.18	42.48	60.81	40.00	66.80	36.95	77.66
40	37.63	42.69	36.40	44.40	35.10	46.52	33.41	49.90	31.28	55.63
30	28.68	31.45	27.98	32.35	27.22	33.43	26.21	35.10	24.91	37.78
25	24.09	25.98	23.60	26.58	23.07	27.29	22.36	28.37	21.42	30.06
20	19.43	20.61	19.12	20.97	18.78	21.40	18.32	22.04	17.70	23.01
17	16.60	17.42	16.38	17.68	16.13	17.97	15.80	18.41	15.35	19.07
15	14.69	15.32	14.52	15.51	14.33	15.73	14.08	16.06	13.73	16.55
13	12.78	13.23	12.65	13.37	12.51	13.53	12.32	13.76	12.06	14.11
11.5	11.33	11.68	11.23	11.78	11.13	11.90	10.98	12.07	10.78	12.33

f = 100mm ×1.5

IRIS / 光圈	T5×1.5		T8×1.5		T11×1.5		T16×1.5		T22×1.5	
Hyperfocal distance 超焦距	1054.63		671.92		475.24		336.20		237.87	
Object distance 物距	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远
200	168.46	246.13	154.57	283.41	141.29	342.67	125.99	486.66	109.28	1201.12
80	74.52	86.35	71.73	90.44	68.78	95.62	65.01	104.05	60.34	118.88
50	47.85	52.36	46.70	53.81	45.46	55.56	43.81	58.25	41.68	62.54
40	38.63	41.48	37.89	42.37	37.07	43.43	35.98	45.04	34.55	47.52
30	29.24	30.80	28.82	31.28	28.36	31.85	27.73	32.68	26.89	33.94
25	24.48	25.55	24.19	25.87	23.87	26.25	23.43	26.80	22.84	27.63
20	19.67	20.34	19.49	20.54	19.29	20.77	19.01	21.10	18.63	21.60
17	16.77	17.24	16.64	17.38	16.49	17.54	16.29	17.77	16.02	18.11
15	14.82	15.18	14.72	15.29	14.61	15.41	14.46	15.58	14.25	15.84
13	12.87	13.13	12.80	13.21	12.72	13.30	12.60	13.42	12.45	13.61
11.5	11.40	11.60	11.35	11.66	11.28	11.72	11.20	11.82	11.08	11.96

CN20x50 IAS H 1.5x

許容錯乱円 / Permissible circle of confusion / 允许弥散圆 : 0.01mm

f = 200mm ×1.5

IRIS / 光圈	T5×1.5		T8×1.5		T11×1.5		T16×1.5		T22×1.5	
Hyperfocal distance 超焦距	4217.45		2686.60		1899.90		1343.70		950.40	
Object distance 物距	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远
200	191.07	209.81	186.33	215.85	181.20	223.18	174.41	234.43	165.64	252.45
80	78.56	81.49	77.77	82.37	76.88	83.39	75.66	84.88	74.00	87.08
50	49.45	50.57	49.14	50.89	48.79	51.27	48.31	51.82	47.64	52.61
40	39.65	40.36	39.45	40.56	39.23	40.80	38.92	41.14	38.50	41.63
30	29.81	30.19	29.70	30.31	29.58	30.44	29.41	30.62	29.17	30.88
25	24.87	25.13	24.80	25.21	24.71	25.30	24.59	25.42	24.43	25.60
20	19.92	20.08	19.87	20.13	19.82	20.18	19.75	20.26	19.65	20.37
17	16.94	17.06	16.91	17.09	16.87	17.13	16.82	17.18	16.75	17.26
15	14.96	15.04	14.93	15.07	14.90	15.10	14.87	15.14	14.81	15.19
13	12.97	13.03	12.95	13.05	12.93	13.07	12.90	13.10	12.86	13.14
11.5	11.48	11.52	11.46	11.54	11.45	11.55	11.43	11.57	11.40	11.61

f = 500mm ×1.5

IRIS / 光圈	T5×1.5		T8×1.5		T11×1.5		T16×1.5		T22×1.5	
Hyperfocal distance 超焦距	26363.51		16795.71		11878.84		8402.63		5944.51	
Object distance 物距	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远
200	198.58	201.44	197.78	202.28	196.87	203.23	195.61	204.61	193.84	206.58
80	79.79	80.21	79.67	80.33	79.54	80.47	79.34	80.67	79.08	80.95
50	49.92	50.08	49.88	50.12	49.83	50.17	49.76	50.24	49.67	50.34
40	39.95	40.05	39.93	40.07	39.90	40.10	39.86	40.14	39.80	40.21
30	29.98	30.02	29.96	30.04	29.95	30.05	29.93	30.07	29.90	30.11
25	24.98	25.02	24.98	25.02	24.97	25.03	24.95	25.05	24.93	25.07
20	19.99	20.01	19.99	20.01	19.98	20.02	19.97	20.03	19.96	20.04
17	16.99	17.01	16.99	17.01	16.99	17.01	16.98	17.02	16.97	17.03
15	15.00	15.00	14.99	15.01	14.99	15.01	14.99	15.01	14.98	15.02
13	13.00	13.00	13.00	13.00	12.99	13.01	12.99	13.01	12.99	13.01
11.5	11.50	11.50	11.50	11.50	11.50	11.50	11.49	11.51	11.49	11.51

f = 1000mm ×1.5

IRIS / 光圈	T8.9×1.5		T11×1.5		T16×1.5		T22×1.5	
Hyperfocal distance 超焦距	54515.54		43765.82		30960.81		21906.05	
Object distance 物距	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远
200	199.41	200.60	199.26	200.74	198.96	201.06	198.53	201.50
80	79.93	80.07	79.91	80.09	79.87	80.13	79.82	80.18
50	49.98	50.02	49.97	50.03	49.96	50.04	49.94	50.06
40	39.99	40.01	39.98	40.02	39.98	40.02	39.97	40.03
30	29.99	30.01	29.99	30.01	29.99	30.01	29.98	30.02
25	25.00	25.00	25.00	25.00	24.99	25.01	24.99	25.01
20	20.00	20.00	20.00	20.00	20.00	20.00	19.99	20.01
17	17.00	17.00	17.00	17.00	17.00	17.00	17.00	17.00
15	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
13	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00
11.5	11.50	11.50	11.50	11.50	11.50	11.50	11.50	11.50

CN20x50 IAS H 1x

許容錯乱円 / Permissible circle of confusion / 允许弥散圆 : 0.01mm

f = 50mm

IRIS / 光圈	T5		T8		T11		T16		T22	
Hyperfocal distance 超焦距	53.80		34.36		24.37		17.31		12.32	
Object distance 物距	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远
50	26.14	639.36	20.58	∞	16.58	∞	13.03	∞	10.02	∞
30	19.46	66.15	16.24	214.68	13.67	∞	11.18	∞	8.91	∞
20	14.75	31.19	12.85	45.96	11.21	100.65	9.50	∞	7.83	∞
15	11.88	20.41	10.63	25.74	9.49	36.75	8.26	94.03	6.98	∞
12	9.94	15.17	9.06	17.87	8.24	22.48	7.30	35.50	6.30	206.03
10	8.55	12.07	7.90	13.69	7.27	16.19	6.54	21.88	5.74	43.95
9	7.82	10.62	7.28	11.84	6.75	13.65	6.12	17.43	5.42	28.83
8	7.06	9.24	6.62	10.13	6.19	11.41	5.66	13.89	5.06	20.17
7	6.28	7.91	5.94	8.55	5.59	9.42	5.17	11.02	4.67	14.55
6	5.48	6.64	5.22	7.07	4.95	7.65	4.62	8.64	4.23	10.61
5	4.64	5.42	4.46	5.70	4.27	6.05	4.03	6.63	3.74	7.69
4.5	4.21	4.83	4.07	5.04	3.91	5.31	3.71	5.75	3.47	6.50
4	3.78	4.25	3.66	4.41	3.54	4.61	3.38	4.92	3.18	5.45
3.5	3.33	3.68	3.25	3.80	3.15	3.94	3.03	4.16	2.88	4.51

f = 75mm

IRIS / 光圈	T5		T8		T11		T16		T22	
Hyperfocal distance 超焦距	120.58		76.86		54.39		38.50		27.27	
Object distance 物距	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远
50	35.50	84.64	30.48	140.05	26.24	556.08	21.94	∞	17.82	∞
30	24.15	39.63	21.73	48.53	19.51	65.26	17.05	127.65	14.48	∞
20	17.25	23.81	16.00	26.71	14.77	31.03	13.34	40.26	11.73	69.64
15	13.42	17.01	12.66	18.43	11.89	20.36	10.95	23.90	9.85	31.75
12	10.98	13.24	10.47	14.06	9.94	15.15	9.29	17.00	8.50	20.56
10	9.29	10.83	8.93	11.37	8.55	12.06	8.06	13.19	7.47	15.20
9	8.42	9.66	8.13	10.09	7.82	10.62	7.41	11.47	6.91	12.96
8	7.55	8.51	7.31	8.84	7.06	9.24	6.73	9.87	6.32	10.93
7	6.66	7.38	6.47	7.62	6.28	7.91	6.02	8.37	5.69	9.11
6	5.75	6.27	5.62	6.44	5.47	6.64	5.28	6.96	5.03	7.45
5	4.83	5.18	4.74	5.29	4.64	5.43	4.50	5.63	4.32	5.94
4.5	4.36	4.65	4.29	4.73	4.21	4.84	4.10	4.99	3.95	5.23
4	3.89	4.11	3.84	4.18	3.77	4.26	3.69	4.37	3.57	4.55
3.5	3.42	3.58	3.38	3.63	3.33	3.69	3.26	3.77	3.18	3.90

f = 100mm

IRIS / 光圈	T5		T8		T11		T16		T22	
Hyperfocal distance 超焦距	214.15		136.42		96.48		68.24		48.27	
Object distance 物距	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远
50	40.64	64.97	36.72	78.35	33.09	102.41	29.02	181.11	24.73	∞
30	26.39	34.76	24.69	38.22	23.01	43.12	20.98	52.66	18.66	76.69
20	18.34	21.98	17.52	23.30	16.66	25.02	15.59	27.92	14.28	33.40
15	14.06	16.08	13.57	16.76	13.06	17.62	12.40	18.99	11.57	21.35
12	11.40	12.67	11.08	13.09	10.74	13.60	10.29	14.39	9.72	15.69
10	9.58	10.46	9.36	10.73	9.12	11.07	8.80	11.59	8.38	12.40
9	8.66	9.36	8.48	9.59	8.28	9.85	8.02	10.25	7.67	10.88
8	7.73	8.28	7.59	8.46	7.43	8.66	7.22	8.97	6.94	9.44
7	6.80	7.21	6.69	7.34	6.57	7.49	6.40	7.72	6.19	8.06
6	5.85	6.15	5.77	6.24	5.68	6.35	5.56	6.51	5.40	6.75
5	4.90	5.10	4.85	5.16	4.78	5.24	4.70	5.34	4.59	5.50
4.5	4.42	4.58	4.38	4.63	4.33	4.69	4.26	4.77	4.17	4.89
4	3.94	4.06	3.90	4.10	3.87	4.14	3.81	4.21	3.74	4.30
3.5	3.45	3.55	3.43	3.58	3.40	3.61	3.36	3.65	3.30	3.72

CN20x50 IAS H 1x

許容錯乱円 / Permissible circle of confusion / 允许弥散圆 : 0.01mm

f = 200mm

IRIS / 光圈	T5		T8		T11		T16		T22	
Hyperfocal distance 超焦距	856.16		545.26		385.49		272.54		192.66	
Object distance 物距	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远
50	47.26	53.07	45.83	55.00	44.30	57.37	42.31	61.10	39.77	67.27
30	29.00	31.07	28.46	31.72	27.86	32.49	27.06	33.65	26.01	35.43
20	19.55	20.47	19.31	20.74	19.03	21.07	18.66	21.55	18.16	22.26
15	14.75	15.26	14.61	15.41	14.45	15.59	14.24	15.85	13.94	16.23
12	11.84	12.16	11.75	12.26	11.65	12.37	11.51	12.53	11.32	12.77
10	9.89	10.11	9.83	10.18	9.76	10.25	9.66	10.36	9.53	10.52
9	8.91	9.09	8.86	9.14	8.80	9.20	8.72	9.29	8.62	9.42
8	7.93	8.07	7.89	8.11	7.85	8.16	7.78	8.23	7.70	8.33
7	6.95	7.05	6.92	7.09	6.88	7.12	6.83	7.17	6.77	7.25
6	5.96	6.04	5.94	6.06	5.91	6.09	5.88	6.13	5.83	6.18
5	4.97	5.03	4.96	5.04	4.94	5.06	4.92	5.09	4.88	5.12
4.5	4.48	4.52	4.47	4.53	4.45	4.55	4.43	4.57	4.41	4.60
4	3.98	4.02	3.97	4.03	3.96	4.04	3.95	4.05	3.93	4.08
3.5	3.49	3.51	3.48	3.52	3.47	3.53	3.46	3.54	3.44	3.56

f = 500mm

IRIS / 光圈	T5		T8		T11		T16		T22	
Hyperfocal distance 超焦距	5352.00		3408.89		2410.33		1704.35		1205.13	
Object distance 物距	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远
50	49.54	50.47	49.28	50.74	48.99	51.05	48.59	51.50	48.03	52.14
30	29.84	30.17	29.74	30.26	29.64	30.37	29.49	30.53	29.28	30.75
20	19.93	20.07	19.89	20.12	19.84	20.16	19.77	20.23	19.68	20.33
15	14.96	15.04	14.94	15.06	14.91	15.09	14.87	15.13	14.82	15.18
12	11.97	12.03	11.96	12.04	11.94	12.06	11.92	12.08	11.89	12.12
10	9.98	10.02	9.97	10.03	9.96	10.04	9.94	10.06	9.92	10.08
9	8.99	9.01	8.98	9.02	8.97	9.03	8.96	9.05	8.94	9.06
8	7.99	8.01	7.98	8.02	7.98	8.03	7.96	8.04	7.95	8.05
7	6.99	7.01	6.99	7.01	6.98	7.02	6.97	7.03	6.96	7.04
6	5.99	6.01	5.99	6.01	5.99	6.01	5.98	6.02	5.97	6.03
5	5.00	5.00	4.99	5.01	4.99	5.01	4.99	5.01	4.98	5.02
4.5	4.50	4.50	4.49	4.51	4.49	4.51	4.49	4.51	4.48	4.52
4	4.00	4.00	4.00	4.00	3.99	4.01	3.99	4.01	3.99	4.01
3.5	3.50	3.50	3.50	3.50	3.50	3.50	3.49	3.51	3.49	3.51

f = 1000mm

IRIS / 光圈	T8.9		T11		T16		T22	
Hyperfocal distance 超焦距	11082.28		8890.68		6287.27		4446.34	
Object distance 物距	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远
50	49.79	50.22	49.73	50.27	49.62	50.38	49.47	50.54
30	29.92	30.08	29.91	30.09	29.87	30.13	29.81	30.19
20	19.97	20.03	19.96	20.04	19.94	20.06	19.92	20.08
15	14.98	15.02	14.98	15.02	14.97	15.03	14.96	15.04
12	11.99	12.01	11.99	12.01	11.98	12.02	11.97	12.03
10	9.99	10.01	9.99	10.01	9.99	10.01	9.98	10.02
9	8.99	9.01	8.99	9.01	8.99	9.01	8.99	9.01
8	8.00	8.00	7.99	8.01	7.99	8.01	7.99	8.01
7	7.00	7.00	7.00	7.00	6.99	7.01	6.99	7.01
6	6.00	6.00	6.00	6.00	6.00	6.00	5.99	6.01
5	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
4.5	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50
4	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
3.5	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50

CN20x50 IAS H 1.5x

許容錯乱円 / Permissible circle of confusion / 允许弥散圆 : 0.01mm

f = 50mm ×1.5

IRIS / 光圈	T5×1.5		T8×1.5		T11×1.5		T16×1.5		T22×1.5	
Hyperfocal distance 超焦距	80.53		51.39		36.42		25.83		18.34	
Object distance 物距	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远
50	31.06	129.48	25.57	1451.21	21.29	∞	17.23	∞	13.60	∞
30	22.03	47.16	19.15	70.15	16.67	158.85	14.10	∞	11.59	∞
20	16.16	26.28	14.58	32.04	13.12	42.78	11.49	81.74	9.79	∞
15	12.76	18.21	11.77	20.76	10.81	24.72	9.70	33.92	8.47	72.14
12	10.54	13.94	9.87	15.36	9.19	17.38	8.39	21.40	7.47	31.89
10	8.98	11.29	8.49	12.18	8.00	13.41	7.39	15.63	6.68	20.47
9	8.18	10.02	7.77	10.71	7.36	11.63	6.85	13.25	6.24	16.53
8	7.35	8.78	7.03	9.30	6.69	9.98	6.27	11.13	5.76	13.32
7	6.50	7.58	6.25	7.96	5.99	8.44	5.66	9.23	5.25	10.66
6	5.64	6.41	5.46	6.67	5.26	7.00	5.00	7.52	4.69	8.42
5	4.76	5.27	4.63	5.44	4.49	5.65	4.31	5.98	4.08	6.51
4.5	4.31	4.71	4.20	4.85	4.09	5.01	3.94	5.25	3.75	5.65
4	3.85	4.16	3.77	4.26	3.68	4.38	3.57	4.57	3.41	4.85
3.5	3.39	3.62	3.33	3.69	3.26	3.78	3.17	3.91	3.06	4.11

f = 75mm ×1.5

IRIS / 光圈	T5×1.5		T8×1.5		T11×1.5		T16×1.5		T22×1.5	
Hyperfocal distance 超焦距	180.93		115.31		81.59		57.75		40.89	
Object distance 物距	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远
50	39.31	68.72	35.05	87.41	31.19	126.79	27.00	350.43	22.70	∞
30	25.83	35.79	23.94	40.21	22.09	46.83	19.93	61.07	17.50	107.29
20	18.08	22.38	17.15	24.01	16.19	26.19	15.01	30.05	13.61	37.99
15	13.91	16.28	13.36	17.11	12.78	18.18	12.04	19.93	11.13	23.09
12	11.30	12.79	10.94	13.29	10.55	13.92	10.05	14.91	9.42	16.58
10	9.52	10.54	9.26	10.87	8.99	11.28	8.63	11.91	8.16	12.94
9	8.61	9.43	8.40	9.69	8.18	10.01	7.88	10.50	7.50	11.28
8	7.69	8.33	7.53	8.53	7.35	8.78	7.11	9.15	6.80	9.73
7	6.77	7.25	6.64	7.40	6.51	7.58	6.32	7.85	6.08	8.26
6	5.83	6.18	5.74	6.28	5.64	6.41	5.50	6.60	5.32	6.88
5	4.89	5.12	4.82	5.19	4.75	5.27	4.66	5.40	4.53	5.58
4.5	4.41	4.59	4.36	4.65	4.30	4.72	4.23	4.81	4.12	4.95
4	3.93	4.07	3.89	4.12	3.85	4.17	3.79	4.24	3.71	4.35
3.5	3.45	3.55	3.42	3.59	3.39	3.62	3.34	3.67	3.28	3.75

f = 100mm ×1.5

IRIS / 光圈	T5×1.5		T8×1.5		T11×1.5		T16×1.5		T22×1.5	
Hyperfocal distance 超焦距	321.45		204.80		144.85		102.47		72.50	
Object distance 物距	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远
50	43.36	59.05	40.31	65.85	37.32	75.82	33.77	96.48	29.78	157.10
30	27.50	33.00	26.25	35.00	24.96	37.60	23.34	42.02	21.38	50.40
20	18.87	21.27	18.28	22.08	17.66	23.07	16.84	24.64	15.81	27.26
15	14.36	15.70	14.02	16.12	13.66	16.64	13.17	17.43	12.54	18.68
12	11.59	12.44	11.38	12.70	11.14	13.01	10.81	13.48	10.39	14.21
10	9.72	10.30	9.57	10.47	9.40	10.68	9.17	10.99	8.87	11.47
9	8.77	9.24	8.65	9.38	8.52	9.54	8.33	9.79	8.08	10.16
8	7.82	8.18	7.73	8.29	7.62	8.42	7.47	8.61	7.27	8.89
7	6.87	7.14	6.79	7.22	6.71	7.32	6.60	7.46	6.44	7.66
6	5.90	6.10	5.85	6.16	5.79	6.23	5.71	6.32	5.59	6.47
5	4.93	5.07	4.90	5.11	4.86	5.15	4.80	5.22	4.72	5.31
4.5	4.45	4.55	4.42	4.58	4.39	4.62	4.34	4.67	4.28	4.75
4	3.96	4.04	3.94	4.06	3.91	4.09	3.88	4.13	3.83	4.19
3.5	3.47	3.53	3.45	3.55	3.43	3.57	3.41	3.60	3.37	3.64

CN20x50 IAS H 1.5x

許容錯乱円 / Permissible circle of confusion / 允许弥散圆 : 0.01mm

f = 200mm ×1.5

IRIS / 光圈	T5×1.5		T8×1.5		T11×1.5		T16×1.5		T22×1.5	
Hyperfocal distance 超焦距	1285.48		818.87		579.09		409.56		289.68	
Object distance 物距	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远
50	48.16	51.99	47.17	53.19	46.09	54.64	44.65	56.82	42.75	60.23
30	29.34	30.70	28.97	31.11	28.56	31.59	28.01	32.30	27.26	33.36
20	19.71	20.30	19.54	20.48	19.36	20.68	19.11	20.98	18.76	21.42
15	14.84	15.17	14.75	15.26	14.64	15.38	14.50	15.54	14.30	15.77
12	11.90	12.10	11.84	12.17	11.77	12.24	11.68	12.34	11.56	12.48
10	9.93	10.07	9.89	10.11	9.84	10.16	9.78	10.23	9.69	10.33
9	8.94	9.06	8.91	9.09	8.88	9.13	8.82	9.18	8.75	9.26
8	7.96	8.04	7.93	8.07	7.90	8.10	7.86	8.14	7.81	8.20
7	6.97	7.03	6.95	7.05	6.93	7.07	6.90	7.11	6.85	7.15
6	5.98	6.02	5.96	6.04	5.95	6.05	5.93	6.08	5.90	6.11
5	4.98	5.02	4.97	5.03	4.96	5.04	4.95	5.05	4.93	5.07
4.5	4.49	4.51	4.48	4.52	4.47	4.53	4.46	4.54	4.44	4.56
4	3.99	4.01	3.98	4.02	3.98	4.02	3.97	4.03	3.96	4.04
3.5	3.49	3.51	3.49	3.51	3.48	3.52	3.48	3.52	3.47	3.53

f = 500mm ×1.5

IRIS / 光圈	T5×1.5		T8×1.5		T11×1.5		T16×1.5		T22×1.5	
Hyperfocal distance 超焦距	8035.60		5119.33		3620.67		2561.12		1811.89	
Object distance 物距	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远
50	49.71	50.29	49.55	50.46	49.36	50.65	49.11	50.93	48.75	51.32
30	29.90	30.10	29.84	30.16	29.78	30.22	29.69	30.32	29.56	30.45
20	19.96	20.04	19.93	20.07	19.91	20.09	19.87	20.13	19.82	20.19
15	14.98	15.02	14.97	15.04	14.95	15.05	14.93	15.07	14.90	15.10
12	11.99	12.01	11.98	12.02	11.97	12.03	11.96	12.04	11.94	12.06
10	9.99	10.01	9.99	10.01	9.98	10.02	9.97	10.03	9.96	10.04
9	8.99	9.01	8.99	9.01	8.98	9.02	8.98	9.02	8.97	9.03
8	7.99	8.01	7.99	8.01	7.99	8.01	7.98	8.02	7.98	8.02
7	7.00	7.00	6.99	7.01	6.99	7.01	6.99	7.01	6.98	7.02
6	6.00	6.00	6.00	6.00	5.99	6.01	5.99	6.01	5.99	6.01
5	5.00	5.00	5.00	5.00	5.00	5.00	4.99	5.01	4.99	5.01
4.5	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.49	4.51
4	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
3.5	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50

f = 1000mm ×1.5

IRIS / 光圈	T8.9×1.5		T11×1.5		T16×1.5		T22×1.5	
Hyperfocal distance 超焦距	16616.34		13339.82		9436.85		6676.96	
Object distance 物距	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远
50	49.88	50.12	49.85	50.15	49.79	50.21	49.71	50.29
30	29.96	30.04	29.95	30.05	29.94	30.06	29.91	30.09
20	19.99	20.01	19.98	20.02	19.98	20.02	19.97	20.03
15	14.99	15.01	14.99	15.01	14.99	15.01	14.98	15.02
12	12.00	12.00	12.00	12.00	11.99	12.01	11.99	12.01
10	10.00	10.00	10.00	10.00	10.00	10.00	9.99	10.01
9	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
8	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00
7	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00
6	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00
5	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
4.5	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50
4	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
3.5	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50