

# CR系列之DT-20M标准远心镜头

## DT-20M系列 (0.045-0.441x)

- 双侧远心设计，超高远心度，可提升数倍的测量精度；
- 可选配可变光阑，有效平衡景深与分辨率；
- 可提供专门匹配的平行光源，提高照明均匀性；
- 部分镜头支持内部L90转向，节约安装空间。



### 型号说明

#### DT-HR05X110-N-20M-CR

2M: 2百万分辨率  
 5M: 5百万分辨率  
 10M: 1000万分辨率  
 12M: 1200万分辨率  
 20M: 2000万分辨率  
 25M: 2500万分辨率

N: 非同轴  
 CO: 同轴

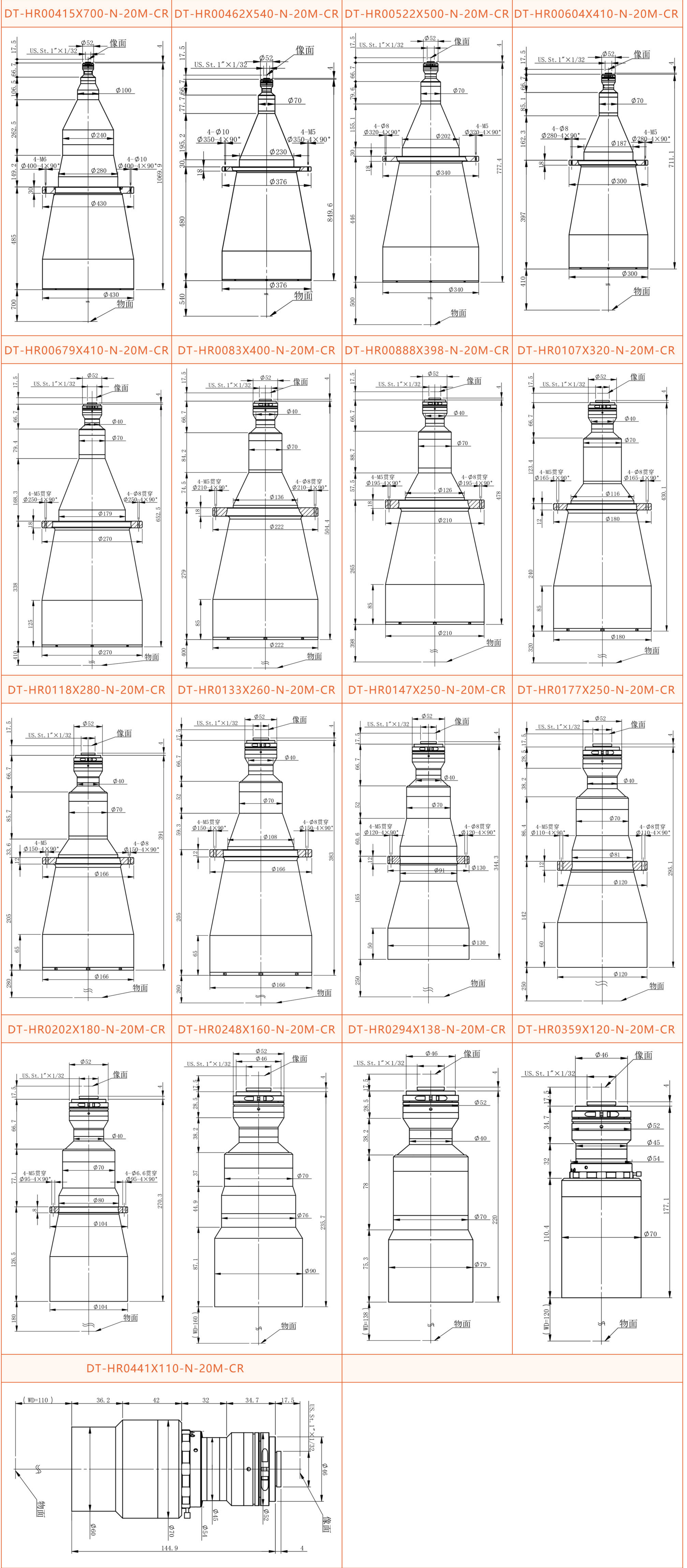
镜头工作距离  
 65: 65mm  
 110: 110mm

镜头放大倍率  
 05: 0.5倍  
 10: 1倍  
 20: 2倍

镜头分辨率  
 HR: High Resolution (5M-20M)  
 SR: Standard Resolution (0.3M-2M)

镜头类别  
 OT: Object telecentric (物方远心镜头)  
 NT: None telecentric (非远心镜头)  
 DT: Double telecentric (双侧远心镜头)

### 规格说明



镜头型号	倍率 (X)	工作距离 (mm)	物方直径 (mm)	像方直径 (mm)	景深 (mm)	光源	分辨率 (lp/mm)	分辨率 (μm)	光学畸变 (%)	圆筒畸变 (%)	最大口径 (mm)	镜头总长 (mm)	1/3"	1/2.5"	1/2.3"	1/2"	1/1.8"	2/3"	1"	1"
DT-HR00415X700-N-20M-CR	0.0415	700	390.4	16.2	410.1	F6.5	103.43	160	0.044%	0.062%	430	1069.9	115.66X86.75	137.35X101.2	149.4X110.84	158.63X118.07	156.63X116.07	202.41X171.08	298.8X236.14	272.29X272.29
DT-HR00462X540-N-20M-CR	0.0462	540	350.6	16.2	329.4	F6.5	92.78	160	0.041%	0.062%	376	849.6	103.9X77.92	123.38X90.91	134.2X99.57	140.69X106.06	140.69X106.06	181.82X153.68	268.4X212.12	244.59X244.59
DT-HR00522X500-N-20M-CR	0.0522	500	310.3	16.2	261.0	F6.5	82.21	160	0.041%	0.062%	340	777.4	91.95X68.97	109.2X80.46	118.77X88.12	124.52X93.87	124.52X93.87	160.92X136.02	237.55X187.74	216.48X216.48
DT-HR00604X410-N-20M-CR	0.0604	410	268.2	16.2	193.9	F6.5	71.03	160	0.050%	0.084%	300	711.1	79.47X59.6	94.37X69.54	102.65X76.16	107.62X81.13	107.62X81.13	139.07X117.55	205.3X162.25	187.09X187.09
DT-HR00679X410-N-20M-CR	0.0679	410	238.6	16.2	153.9	F6.5	63.15	160	0.025%	0.071%	270	652.5	70.89X53.02	83.95X61.86	91.31X76.75	95.73X72.16	95.73X72.16	123.71X104.57	182.62X144.33	166.42X166.42
DT-HR0083X400-N-20M-CR	0.083	400	195.2	16.2	104.3	F6.5	51.66	160	0.044%	0.062%	222	504.4	57.83X43.37	68.67X50.6	74.7X55.42	78.31X59.04	78.31X59.04	101.2X85.54	149.4X118.07	136.14X136.14
DT-HR00888X398-N-20M-CR	0.0888	398	182.4	16.2	91.2	F6.5	48.31	160	0.044%	0.077%	210	478	54.05X40.54	64.19X47.3	69.82X51.8	73.2X55.18	73.2X55.18	94.59X79.95	139.64X110.36	127.25X127.25
DT-HR0118X280-N-20M-CR	0.118	280	137.3	16.2	52.4	F6.5	36.35	160	0.038%	0.071%	166	391	40.68X30.51	48.31X35.59	52.54X38.98	55.08X41.53	55.08X41.53	71.19X60.17	105.08X83.05	95.76X95.76
DT-HR0133X260-N-20M-CR	0.133	260	121.8	16.2	41.1	F6.5	32.38	160	0.026%	0.054%	166	383	36.09X27.07	42.86X31.58	46.62X34.59	48.87X36.84	48.87X36.84	63.16X53.38	93.23X73.68	84.96X84.96
DT-HR0147X250-N-20M-CR	0.147	250	110.2	16.2	33.5	F6.5	29.22	160	0.026%	0.052%	130	344.3	32.65X24.49	38.78X28.57	42.18X31.29	44.22X33.33	44.22X33.33	57.14X48.3	84.35X66.67	76.87X76.87
DT-HR0177X250-N-20M-CR	0.177	250	91.5	16.2	23.1	F6.5	24.31	160	0.019%	0.037%	120	295.1	27.12X20.34	32.2X23.73	35.03X25.99	36.72X27.68	36.72X27.68	47.46X40.11	70.06X55.37	63.84X63.84
DT-HR0202X180-N-20M-CR	0.202	180	80.2	16.2	17.8	F6.5	21.22	160	0.019%	0.037%	104	270.3	23.76X17.82	28.22X20.79	30.89X22.77	32.18X24.26	32.18X24.26	41.58X35.15	61.39X48.51	55.94X55.94
DT-HR0248X160-N-20M-CR	0.248	160	65.3	16.2	11.6	F6.5	17.27	160	0.017%	0.080%	90	235.7	19.35X14.52	22.98X16.94	25X18.55	26.21X19.76	26.21X19.76	33.87X28.63	50X39.52	45.56X45.56
DT-HR0294X138-N-20M-CR	0.294	138	55.1	16.2	8.3	F6.5	14.60	160	0.031%	0.095%	79	220	16.33X12.24	19.39X14.29	21.09X15.65	22.11X16.67	22.11X16.67	28.57X24.15	42.18X33.33	38.44X38.44
DT-HR0359X120-N-20M-CR	0.359	120	45.1	16.2	5.6-27	F6.5-F31	11.9-57.47	160-33	0.024%	0.100%	70	177.1	13.37X10.03	15.88X11.7	17.27X12.81	18.11X13.65	18.11X13.65	23.4X19.78	34.54X27.3	31.48X31.48
DT-HR0441X110-N-20M-CR	0.441	110	36.7	16.2	3.7-17.9	F6.5-F31	9.7-46.82	160-33	0.03%	0.100%	60	144.9	10.88X8.16	12.93X9.52	14.06X10.43	14.74X11.11	14.74X11.11	19.05X16.1	28.12X22.22	25.62X25.62

# CR系列之DT-20M标准远镜头

## DT-20M系列(05x-4x)

- 最大可支持1"工业相机；
- 双侧远心设计，超高远心度，可提升数倍的测量精度；
- 可选配可变光阑，有效平衡景深与分辨率；
- 部分镜头支持内部L90转向，节约安装空间。



DT-HR05X65-N-20M-CR	DT-HR05X65-C-20M-CR	DT-HR05X110-N-20M-CR	DT-HR05X110-C-20M-CR

镜头型号	倍率	工作距离 (mm)	物方视场 (mm)	像方视场 (mm)	景深 (mm)	光圈	分辨率 (μm)	像方MTF30 (LP/mm)	光学畸变 (%)	最大口径 (mm)	镜头总长 (mm)	1/3"	1/2.5"	1/2.3"	1/2"	1.1/8"	1/3"	1"	1"	1"
DT-HR05X65-N-20M-CR	0.5	65	35.2	17.6	2.7	F6	7.9	170	0.006%	49	133.5	9.6X7.2	11.6X8.6	12.4X9.2	12.8X9.6	14.4X10.6	16.9X14.14	25.6X19.2	26.2X17.6	28.4X20.8
DT-HR05X65-C-20M-CR	0.5	65	35.2	17.6	2.7	F8	8	170	0.005%	49	133.5	9.6X7.2	11.6X8.6	12.4X9.2	12.8X9.6	14.4X10.6	16.9X14.14	25.6X19.2	26.2X17.6	28.4X20.8
DT-HR05X110-N-20M-CR	0.5	110	35.2	17.6	3.5	F8	10.5	125	0.162%	50	112.5	9.6X7.2	11.6X8.6	12.4X9.2	12.8X9.6	14.4X10.6	16.9X14.14	25.6X19.2	26.2X17.6	28.4X20.8
DT-HR05X110-C-20M-CR	0.5	110	35.2	17.6	3.5	F8	10.5	125	0.072%	50	112.5	9.6X7.2	11.6X8.6	12.4X9.2	12.8X9.6	14.4X10.6	16.9X14.14	25.6X19.2	26.2X17.6	28.4X20.8
DT-HR05X220-N-20M-CR	0.55	220	32.0	17.6	2.9	F8	9.6	125	0.112%	62	217.8	8.7X36.5	10.55X7.82	11.27X8.36	11.64X8.73	13.01X9.64	15.36X12.85	23.27X17.45	23.82X17.6	25.82X18.91
DT-HR06X80-N-20M-CR	0.6	80	29.3	17.6	2.5	F8	8.8	125	0.021%	40	167.8	8X6	9.67X7.17	10.33X7.67	10.67X8	12.8X8.3	14.08X11.78	21.33X16	21.83X14.67	23.67X17.33
DT-HR06X80-C-20M-CR	0.6	80	29.3	17.6	2.5	F8	8.8	125	0.079%	40	170.6	8X6	9.67X7.17	10.33X7.67	10.67X8	12.8X8.3	14.08X11.78	21.33X16	21.83X14.67	23.67X17.33
DT-HR074X65-N-20M-CR	0.74	65	23.8	17.6	1.7	F8.5	7.6	120	0.055%	46	134.6	6.49X4.86	7.84X5.81	8.38X6.22	8.65X6.49	9.73X7.16	11.42X9.55	17.3X12.97	17.7X11.89	19.19X14.05
DT-HR074X65-C-20M-CR	0.74	65	23.8	17.6	1.7	F8.5	7.6	120	0.06%	46	137.5	6.49X4.86	7.84X5.81	8.38X6.22	8.65X6.49	9.73X7.16	11.42X9.55	17.3X12.97	17.7X11.89	19.19X14.05
DT-HR08X178-N-20M-CR	0.8	178	22.0	17.6	1.7	F10	8.3	100	0.1%	42	155.7	6X4.5	7.25X5.38	7.75X5.75	8X6	9X6.3	10.56X8.84	16X12	16.38X11	17.75X13
DT-HR08X178-C-20M-CR	0.8	178	22.0	17.6	1.7	F10	8.3	100	0.1%	42	155.7	6X4.5	7.25X5.38	7.75X5.75	8X6	9X6.3	10.56X8.84	16X12	16.38X11	17.75X13
DT-HR10X65-N-20M-CR	1	65	17.6	17.6	0.79	F7	4.6	145	0.007%	39	125.4	4.8X3.6	5.8X4.3	6.2X4.6	6.4X4.8	7.2X5.3	8.45X7.07	12.8X9.6	13.1X8.8	14.2X10.4
DT-HR10X65-C-20M-CR	1	65	17.6	17.6	0.79	F7	4.6	145	0.008%	39	129.6	4.8X3.6	5.8X4.3	6.2X4.6	6.4X4.8	7.2X5.3	8.45X7.07	12.8X9.6	13.1X8.8	14.2X10.4
DT-HR10X110-N-20M-CR	1	110	17.6	17.6	1.1	F10	6.5	100	0.08%	50	151.5	4.8X3.6	5.8X4.3	6.2X4.6	6.4X4.8	7.2X5.3	8.45X7.07	12.8X9.6	13.1X8.8	14.2X10.4
DT-HR10X110-C-20M-CR	1	110	17.6	17.6	1.1	F10	6.5	100	0.08%	50	151.5	4.8X3.6	5.8X4.3	6.2X4.6	6.4X4.8	7.2X5.3	8.45X7.07	12.8X9.6	13.1X8.8	14.2X10.4
DT-HR10X178-N-20M-CR	1	178	17.6	17.6	1.2	F11.1	7.3	90	0.066%	42	171	4.8X3.6	5.8X4.3	6.2X4.6	6.4X4.8	7.2X5.3	8.45X7.07	12.8X9.6	13.1X8.8	14.2X10.4
DT-HR10X178-C-20M-CR	1	178	17.6	17.6	1.2	F11.1	7.3	90	0.066%	42	171	4.8X3.6	5.8X4.3	6.2X4.6	6.4X4.8	7.2X5.3	8.45X7.07	12.8X9.6	13.1X8.8	14.2X10.4
DT-HR15X110-N-20M-CR	1.5	110	11.7	17.6	0.57	F11.5	5.1	85	0.082%	50	182.5	3.2X2.4	3.87X2.87	4.13X3.07	4.27X3.2	4.8X3.53	5.63X4.71	8.53X6.4	8.73X5.87	9.47X6.93
DT-HR15X110-C-20M-CR	1.5	110	11.7	17.6	0.57	F11.5	5.1	85	0.082%	50	182.5	3.2X2.4	3.87X2.87	4.13X3.07	4.27X3.2	4.8X3.53	5.63X4.71	8.53X6.4	8.73X5.87	9.47X6.93
DT-HR20X65-N-20M-CR	2	65	8.8	17.6	0.20-2.8	F7.1-98.9	2.4-32.6	135-10.5	0.1%	44	150.4	2.4X1.8	2.9X2.15	3.1X2.3	3.2X2.4	3.6X2.65	4.23X3.54	6.4X4.8	6.55X4.4	7.1X5.2
DT-HR20X65-C-20M-CR	2	65	8.8	17.6	0.20-2.8	F7.1-98.9	2.4-32.6	135-10.5	0.1%	44	150.4	2.4X1.8	2.9X2.15	3.1X2.3	3.2X2.4	3.6X2.65	4.23X3.54	6.4X4.8	6.55X4.4	7.1X5.2
DT-HR30X65-N-20M-CR	3	65	5.9	17.6	0.12-1.8	F9.5-147.3	2.1-32.3	105-7	0.085%	44	158.4	1.6X1.2	1.93X1.43	2.07X1.53	2.13X1.6	2.4X1.77	2.82X2.36	4.27X3.2	4.37X2.93	4.73X3.47
DT-HR30X65-C-20M-CR	3	65	5.9	17.6	0.12-1.8	F9.5-147.3	2.1-32.3	105-7	0.085%	44	158.4	1.6X1.2	1.93X1.43	2.07X1.53	2.13X1.6	2.4X1.77	2.82X2.36	4.27X3.2	4.37X2.93	4.73X3.47
DT-HR40X65-N-20M-CR	4	65	4.4	17.6	0.08-1.4	F11.8-194.9	2.0-32.3	85-5	0.09%	44	174.4	1.2X0.9	1.45X1.08	1.55X1.15	1.6X1.2	1.8X1.33	2.11X1.77	3.2X2.4	3.28X2.2	3.55X2.6
DT-HR40X65-C-20M-CR	4	65	4.4	17.6	0.08-1.4	F11.8-194.9	2.0-32.3	85-5	0.09%	44	174.4	1.2X0.9	1.45X1.08	1.55X1.15	1.6X1.2	1.8X1.33	2.11X1.77	3.2X2.4	3.28X2.2	3.55X2.6