

The Tolerance of the Cameras (293 K)

Long Blue Camera with Six Folding Mirrors

Surface	Clear Aerture	Trim Aperature	Glass	Radius	Thickness	TIR	Decenter	Irregularity
Lens 1	124.1 mm	139 mm	BaF2	542.1287±0.4 mm	17.052±0.2 mm	.010 mm	±0.02 mm	p-v <1/4
	123.5 mm	139 mm		-1136.414±1.5 mm	7.032±0.2 mm			p-v <1/4
Lens 2	122.6 mm	139 mm	SF6	-913.3153±0.4 mm	11.021±0.2 mm	.006 mm	±0.02 mm	p-v <1/4
	122.4 mm	139 mm		-2067.376±2.0 mm	920.458±1 mm			p-v <1/4
Lens 3	55.9 mm	64 mm	CaF2	-99.0024±0.03 mm	16.050±0.1 mm	.010 mm	±0.06 mm	p-v <1/4
	58.0 mm	64 mm		-105.3786±0.03 mm	301.220 mm			p-v <1/4
Focus				plane				
Mirror 1				0.1 fringe				p-v <1/10
Mirror 2				0.1 fringe				p-v <1/10
Mirror 3				0.1 fringe				p-v <1/10

Short Blue Camera

Surface	Clear Aerture	Trim Aperature	Glass	Radius	Thickness	TIR	Decenter	Irregularity
Lens 1	143.6 mm	160 mm	BaF2	281.0717±0.1 mm	36.111±0.05 mm	.010 mm	±0.02 mm	p-v <1/4
	141.1 mm	160 mm		-431.9667±0.15 mm	34.651±0.03 mm			p-v <1/4
Lens 2	129.9 mm	160 mm	SF6	-305.4567±0.04 mm	15.529±0.5 mm	.010 mm	±0.02 mm	p-v <1/4
	130.0 mm	160 mm		-1111.949±1.4 mm	95.871±0.02 mm			p-v <1/4
Lens 3	120.8 mm	135 mm	BaF2	154.5918±0.02 mm	31.095±0.1 mm	.010 mm	±0.02 mm	p-v <1/4
	114.4 mm	135 mm		1235.4±2.6 mm	52.705±0.02 mm			p-v <1/4
Lens 4	88.6 mm	99 mm	BaF2	109.3904±0.04 mm	30.092±0.02 mm	.008 mm	±0.02 mm	p-v <1/4
	70.5 mm	99 mm		61.5481±0.01	175.728 mm			p-v <1/4
Focus				plane				

Long Red Camera with Six Folding Mirrors

Surface	Clear Aerture	Trim Aperature	Glass	Radius	Thickness	TIR	Decenter	Irregularity
Lens 1	127.9 mm	143 mm	CaF2	711.1982±1 mm	12.037±0.1 mm	.012 mm	±0.02 mm	p-v <1/4
	127.4 mm	143 mm		324.5704±0.09 mm	8.033±0.2 mm			p-v <1/4
Lens 2	128.3 mm	143 mm	BaF2	346.1418±0.12 mm	19.058±0.1 mm	.020 mm	±0.02 mm	p-v <1/4
	127.8 mm	143 mm		-3876.294±5 mm	1299.565 mm			p-v <1/4
Focus				plane				
Mirror 1				0.2 fringe				p-v <1/8
Mirror 2				0.2 fringe				p-v <1/8
Mirror 3				0.2 fringe				p-v <1/8

Short Red Camera

Surface	Clear Aerture	Trim Aperature	Glass	Radius	Thickness	TIR	Decenter	Irregularity
Lens 1	147.6 mm	164 mm	BaF2	266.0056±0.2 mm	36.111±0.02 mm	.012 mm	±0.02 mm	p-v <1/4
	144.8 mm	164 mm		-523.4801±0.3 mm	11.349±0.1 mm			p-v <1/4
Lens 2	142.2 mm	164 mm	CaF2	-306.0491±0.1 mm	15.047±0.1 mm	.010 mm	±0.02 mm	p-v <1/4
	140.1 mm	164 mm		1854.248±5 mm	72.878±0.1 mm			p-v <1/4
Lens 3	132.2 mm	147 mm	BaF2	139.1961±0.015 mm	34.104±0.04 mm	.012 mm	±0.02 mm	p-v <1/4
	124.7 mm	147 mm		1059.714±0.8 mm	10.030±0.03 mm			p-v <1/4
Lens 4	114.2 mm	128 mm	BaF2	140.4368±0.08 mm	22.069±0.02	.008 mm	±0.02 mm	p-v <1/4
	97.2 mm	128 mm		76.5371±0.01 mm	270.221 mm			p-v <1/4
Focus				plane				