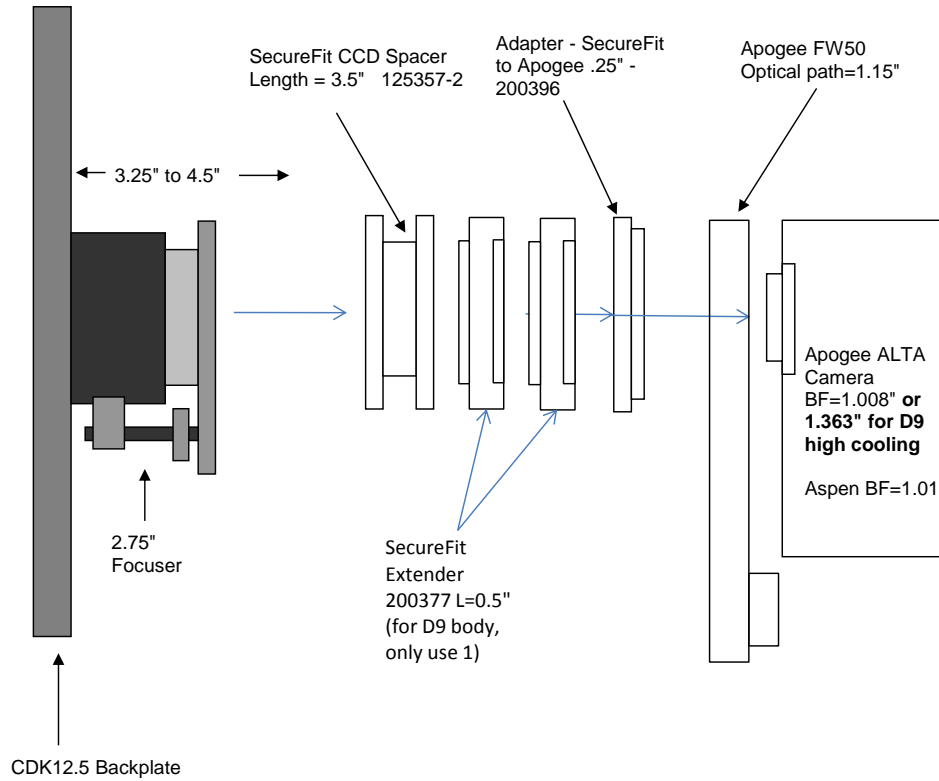


CDK12.5 - OPTICAL TRAIN: for Apogee Alta, Aspen, FW50

Distance to Focuser Mounting Surface 10.445

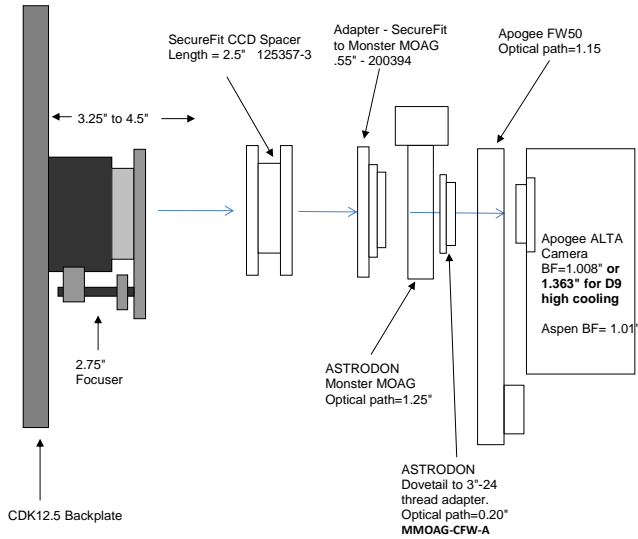


Apogee Alta, Aspen CCD, FW50	10.445	remaining BF
2.75" Focuser (racked in)	3.25	7.195
Focus position (0 to 1.3")	0.287	6.908
SecureFit CCD Spacer - 125357-2	3.5	3.408
SecureFit CCD Extender - 200377	0.5	2.908
SecureFit CCD Extender - 200377	0.5	2.408
SecureFit to Apogee Adapter - 200396	0.25	2.158
Apogee FW50	1.15	1.008
Apogee Alta U16M CCD back focus	1.008	0

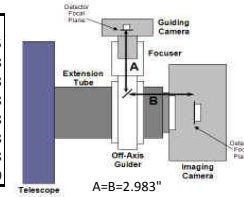
Apogee Alta CCD, FW50, (D9 High Cooling)	10.445	remaining BF
2.75" Focuser (racked in)	3.25	7.195
Focus position (0 to 1.3")	0.432	6.763
SecureFit CCD Spacer - 125357-2	3.5	3.263
SecureFit CCD Extender - 200377	0.5	2.763
SecureFit to Apogee Adapter - 200396	0.25	2.513
Apogee FW50	1.15	1.363
Apogee Alta U16M High Cooling CCD back focus	1.363	0

CDK12.5 - OPTICAL TRAIN: for Apogee Alta, Aspen, FW50 and MMOAG

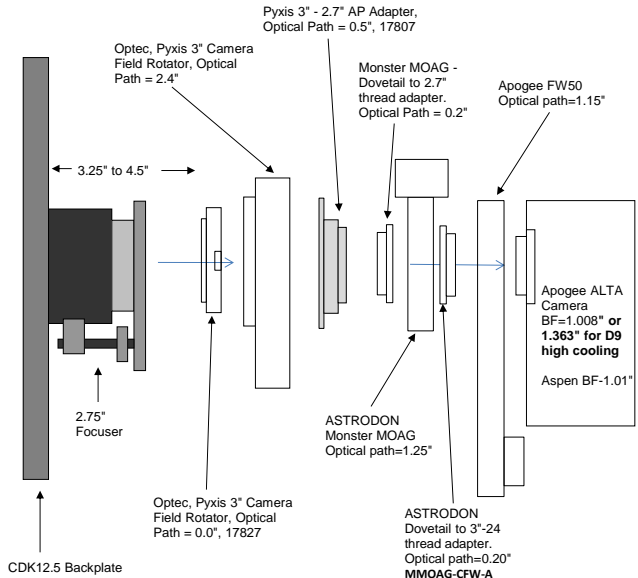
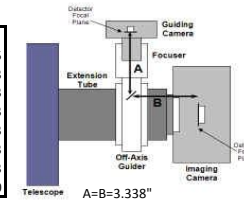
Distance to Focuser Mounting Surface 10.445



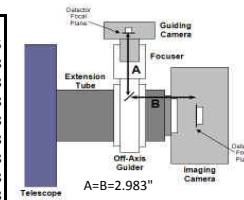
Apogee Alta, Aspen CCD, FW50, & MMOAG		
2.75" Focuser (racked in)	10.445	remaining BF
SecureFit CCD Spacer - 125357-3	3.25	7.195
Focus position (0 to 1.3")	0.537	6.658
Adapter SecureFit to Monster MOAG .55" - 200394	2.5	4.158
Monster MOAG - MMOAG	0.55	3.608
AstroDon Adapter - MMOAG-CFW-A	1.25	2.358
Apogee FW50	0.2	2.158
Apogee FW50	1.15	1.008
Apogee Alta U16M CCD back focus	1.008	0



MonsterMOAG, FW50, ALTA D9 High Cooling		
2.75" Focuser (racked in)	10.445	remaining BF
SecureFit CCD Spacer - 125357-3	3.25	7.195
Focus position (0 to 1.3")	0.182	7.013
Adapter SecureFit to Monster MOAG - 200394	2.5	4.513
Monster MOAG - MMOAG	0.55	3.963
Monster MOAG - MMOAG	1.25	2.713
AstroDon Adapter - MMOAG-CFW-A	0.2	2.513
Apogee FW50	1.15	1.363
Apogee Alta U16M High Cooling CCD back focus	1.363	0



Alta, Aspen CCD, FW50, Pyxis & MMOAG		
2.75" Focuser (racked in)	10.445	remaining BF
PW 12.5 to Optec-3600 dovetail adapter - 17827	3.25	7.195
Focus position (0 to 1.3")	0.487	6.708
Optec Pyxis 3" Camera Rotator	0	6.708
Optec Pyxis 2.7" AP Adapter - 17807	2.4	4.308
Optec Pyxis 2.7" AP Adapter - 17807	0.5	3.808
Monster MOAG -Dovetail to 2.7" adapter	0.2	3.608
Monster MOAG - MMOAG	1.25	2.358
AstroDon Adapter - MMOAG-CFW-A	0.2	2.158
Apogee FW50	1.15	1.008
Apogee FW50	1.008	0



MonsterMOAG, FW50, ALTA D9 High Cooling		
2.75" Focuser (racked in)	10.445	remaining BF
PW 12.5 to Optec-3600 dovetail adapter - 17827	3.25	7.195
Focus position (0 to 1.3")	0.132	7.063
Optec Pyxis 3" Camera Rotator	0	7.063
Optec Pyxis 3" Camera Rotator	2.4	4.663
Optec Pyxis 2.7" AP Adapter - 17807	0.5	4.163
Monster MOAG -Dovetail to 2.7" adapter	0.2	3.963
Monster MOAG - MMOAG	1.25	2.713
AstroDon Adapter - MMOAG-CFW-A	0.2	2.513
Apogee FW50	1.15	1.363
Apogee FW50	1.363	0

