

QSI 500/600 Series Optical Path Length

	Slim Cover - i		Medium Cover - s		Full Cover - ws(-8)		wsg(-8) Cover	
Adapter	inches	(mm)	inches	(mm)	inches	(mm)	inches	(mm)
No Cover Adapter (0.000")	0.350	(8.89)	0.675	(17.15)	1.175	(29.85)	1.750	(44.45)
C-Mount Adapter (0.325")	0.675	(17.15)	1.000	(25.40)	1.500	(38.10)	2.075	(52.71)
C-Mount Type 2 Adapter (0.000")	NA		0.675	(17.15)	1.175	(29.85)	1.750	(44.45)
T-Mount Adapter (0.225")	0.575	(14.61)	0.900	(22.86)	1.400	(35.56)	1.975	(50.17)
2.156" Adapter (0.350")	NA		NA		NA		2.100	(53.34)

Nominal Optical Path Length, ± 0.02" (± 0.5mm)

Note: Optical path length includes -0.036" adjustment for

2mm AR coated chamber window and 0.7mm CCD cover glass.

See below for back focus adjustment with a filter added to the optical path.

Note: Back focus of 8-position CFW models is identical to the equivalent 5-position model

(e.g.WSG-8 back focus is identical to the WSG back focus)

Sensor Height Variation*

504	0.002		
516	-0.013		
520	-0.006		
532	-0.013		
540	0.002		
583	0.006		

Backfocus adjustment with filters

	Filter Th	ickness	Adjustment		
Filter brand	inches	(mm)	inches	(mm)	
Astronomik	0.039	1.0	-0.013	-0.33	
Baader	0.083	2.1	-0.028	-0.70	
Astrodon	0.118	3.0	-0.039	-1.00	

Back focus reduced by (glass thickness / 3)

This document is provided as a convenient reference for QSI customers. See "QSI 500 Series Customer Reference Drawing" at http://www.qsimaging.com/documentation.html for complete details.

^{*}Sensor Height Variation represents the difference from nominal optical back focus because of tiny height differences between each specific model of CCD. This figure should be added to or subtracted from the nominal back focus measurement to determine the precise back focus measurement as designed. Note that the back focus tolerance (± 0.02") is greater than these small variations.