

Common Settings across all Captures

- SharpCap used for capture
- Camera(s) uncooled
- Camera capped (i.e. black image)
- USB3
- Frames Captured over 30s
- One trial for each setting combination
- Frames captured as SER files
- Binning = 1
- Captured to SSD (Samsung 980 1TB)
- Windows 11 Home; Intel i9-14900K; 64Gb RAM

Camera	ADC	Gain	Exposure	Resolution/ROI	Frames (Dropped)	Average FPS
ASI2600MM	Mono 16	380	0.2ms	6248 x 4176	105 (0)	3.5
ASI2600MM	Mono 16	380	0.2ms	4000 x 4000	110 (0)	3.7
ASI2600MM	Mono 16	380	0.2ms	2000 x 2000	217 (0)	7.2
ASI2600MM	Mono 16	380	0.2ms	1000 x 1000	425 (0)	14.1
ASI2600MM	Mono 16	380	0.2ms	800 x 600	689 (0)	22.9
ASI2600MM	Mono 16	380	0.2ms	640 x 480	848 (0)	28
ASI2600MM	Mono 16	380	0.2ms	400 x 400	998 (0)	33.1
ASI2600MM	Mono 16	380	0.2ms	6240 x 400	994 (0)	33.1
ASI2600MM	Mono 8	380	0.2ms	6248 x 4176	105 (0)	3.5
ASI2600MM	Mono 8	380	0.2ms	4000 x 4000	110 (0)	3.7
ASI2600MM	Mono 8	380	0.2ms	2000 x 2000	217 (0)	7.2
ASI2600MM	Mono 8	380	0.2ms	1000 x 1000	427 (0)	14.1
ASI2600MM	Mono 8	380	0.2ms	800 x 600	691 (0)	22.9
ASI2600MM	Mono 8	380	0.2ms	640 x 480	846 (0)	28
ASI2600MM	Mono 8	380	0.2ms	400 x 400	997 (0)	33.1
ASI2600MM	Mono 8	380	0.2ms	6248 x 400	996 (0)	33.1
ASI585MC	RAW 16	380	0.2ms	3840 x 2160	717 (0)	23.7
ASI585MC	RAW 16	380	0.2ms	2000 x 2000	1,479 (0)	49.2
ASI585MC	RAW 16	380	0.2ms	1000 x 1000	2,958 (0)	98.3
ASI585MC	RAW 16	380	0.2ms	800 x 600	4,767 (0)	157.8
ASI585MC	RAW 16	380	0.2ms	640 x 480	5,829 (0)	192.9
ASI585MC	RAW 16	380	0.2ms	400 x 400	6,848 (0)	226.4
ASI585MC	RAW 16	380	0.2ms	3840 x 400	3,866 (0)	128.1
ASI585MC	RAW 8	380	0.2ms	3840 x 2160	1,408 (0)	46.9
ASI585MC	RAW 8	380	0.2ms	2000 x 2000	1,520 (0)	50.6
ASI585MC	RAW 8	380	0.2ms	1000 x 1000	2,963 (0)	98.3
ASI585MC	RAW 8	380	0.2ms	800 x 600	4,754 (0)	157.8
ASI585MC	RAW 8	380	0.2ms	640 x 480	5,792 (1)	192.8
ASI585MC	RAW 8	380	0.2ms	400 x 400	6,805 (0)	226.5
ASI585MC	RAW 8	380	0.2ms	3840 x 400	6,824 (0)	226.5