

QSI 500/600 Series Shutter Operation Timing

Shutter Mode

Start-Stop Gate Exposure Time Typical shutter
Exposure Time (sec) (msec) cycle time (msec)

X sec >= 0.30 sec X sec + 300 msec

0.50	500	801
0.40	400	700
0.30	300	600

Moving Gate Exposure Time Typical shutter
Exposure Time (sec) (msec) cycle time (msec)

0.29	290	1053
0.28	280	1017
0.27	270	985
0.26	260	957
0.25	250	922
0.24	240	888
0.23	230	858
0.22	220	824
0.21	210	789
0.20	200	757
0.19	190	717
0.18	180	688
0.17	170	647
0.16	160	616
0.15	150	606
0.14	140	568
0.13	130	541
0.12	120	508
0.11	110	468

Moving Slit Exposure Time Typical shutter
Exposure Time (sec) (msec) cycle time (msec)

0.10	100	1120
0.09	90	1030
0.08	80	950
0.07	70	855
0.06	60	768
0.05	50	683
0.04	40	584
0.03	30	485

Accuracy of the the QSI 500/600 Series shutter

0.03 - 0.10 seconds	+/- 3%	(Moving slit error = 0.9ms -9ms)
0.11 - 0.29 seconds	+/- 2%	(Moving gate error = 6ms -10ms)
0.30 - 1.00 seconds	+/- 1%	(Start/stop gate error = 5ms -10ms)
> 1 second	+/- 10ms	(Start/stop gate max error = 10ms)