

## *Astrophotography settings guide for exposures*

		F4	f5.6	f8	f11	f16
Moon	Thin crescent	1/30	1/15	1/8	1/4	1/8
	Thick crescent	1/60	1/30	1/15	1/8	1/4
	Quarter	1/125	1/60	1/30	1/15	1/8
	Gibbous	1/250	1/125	1/60	1/30	1/15
	Full	1/500	1/250	1/125	1/60	1/30

Details for ISO 50 film, double shutter speeds for ISO 100 and double again for ISO 200  
Use of ISO 400 and 800 films for stellar photos at 30 to 60 seconds

For constellation photos shutter speeds below will reduce star trails.

Focal length	near poles	near 45deg	near equator
28mm	80sec	50sec	30sec
35mm	60sec	35sec	20sec
50mm	40sec	25sec	15sec

Star trails are best taken with ISO 100 to 400 film at 5 to 30 minutes at f4

Moonlight portraits 40 seconds at f2.8 with ISO 400

Auroras 10 to 40 seconds at f2.8 with ISO 400 films

Sun photos at 1/125 second with ISO 100 film on Mylar filter with polarizer and colour filter.

Recommended 35mm film cameras are Canon FTb and F1, Nikon FM2 and F3, Olympus OM-1 and OM-4T, Pentax K1000 and LX.