FILM SPEED (ISO/ASA NUMBER) 50D 5DMKII									50D	5DMKII		APERTURE OF LENS (f/STOP)									
							•		•	•	0	0	0	0	0	O	O	o	o	0	
Fine			-											•	•	-1	-1	-			
Grain									Rough	Grain	Shallow D	epth of Fiel	d						Deep De	pth of I	
Low																					
Noise									High I	Noise	Stopping	down (maki	ng a smalle	er aperture)	>	<	Oper	ning up (ma	ıking a larg	er aper	
ISO ISC	ISC	ISO	ISO	ISO	ISO	ISO	ISO	ISO	ISO	ISO											
12 25	50	100	200	400	800	1600	3200	6400	12800	25600	f/1.4	f/2.0	f/2.8	f/4	f/5.6	f/8	f/11	f/16	f/22	f/3	
1 (0 -1	L -2	-3	-4	1 -5	-6					8 sec	15 sec	30 sec	1 min	2 min	4 min	8 min	16 min	32 min	64 min	
2 :	1 (-1	-2	-3	3 -4	-5	-6				4 sec	8 sec	15 sec	30 sec	1 min	2 min	4 min	8 min	16 min	32 min	
3 2	2 1	L 0	-1	-2	-3	-4	-5	-6			2 sec	4 sec	8 sec	15 sec	30 sec	1 min	2 min	4 min	8 min	16 min	
4	3 2	2 1	0	-1	L -2	-3	-4	-5	-6		1 sec	2 sec	4 sec	8 sec	15 sec	30 sec	1 min	2 min	4 min	8 min	
5 4	4 3	3 2	1	. (-1	-2	-3	-4	-5	-6	1/2 sec	1 sec	2 sec	4 sec	8 sec	15 sec	30 sec	1 min	2 min	4 min	
6 5	5 4	1 3	2	. 1	L 0	-1	-2	-3	-4	-5	1/4 sec	1/2 sec	1 sec	2 sec	4 sec	8 sec	15 sec	30 sec	1 min	2 min	
7 6	6 5	5 4	3	2	2 1	0	-1	-2	-3	-4	1/8 sec	1/4 sec	1/2 sec	1 sec	2 sec	4 sec	8 sec	15 sec	30 sec	1 min	
8 7	7 6	5 5	4		3 2	1	0	-1	-2	-3	1/15 sec	1/8 sec	1/4 sec	1/2 sec	1 sec	2 sec	4 sec	8 sec	15 sec	30 sec	
9 8	8 7	7 6	5	. 4	1 3	2	1	0	-1	-2	1/30 sec	1/15 sec	1/8 sec	1/4 sec	1/2 sec	1 sec	2 sec	4 sec	8 sec	15 sec	
10 9	9 8	3 7	6	5	5 4	3	2	1	0	-1	1/60 sec	1/30 sec	1/15 sec	1/8 sec	1/4 sec	1/2 sec	1 sec	2 sec	4 sec	8 sec	
11 10	0 9	8	7	' E	5 5	4	3	2	1	0	1/125 sec	1/60 sec	1/30 sec	1/15 sec	1/8 sec	1/4 sec	1/2 sec	1 sec	2 sec	4 sec	
12 1:	1 10) 9	8	7	7 6	5	4	3	2	1	1/250 sec	1/125 sec	1/60 sec	1/30 sec	1/15 sec	1/8 sec	1/4 sec	1/2 sec	1 sec	2 sec	
13 12	2 11	10	9	8	3 7	6	5	4	3	2	1/500 sec	1/250 sec	1/125 sec	1/60 sec	1/30 sec	1/15 sec	1/8 sec	1/4 sec	1/2 sec	1 sec	
14 13	3 12	2 11	10	9	8	7	6	5	4	3	1/1000 sec	1/500 sec	1/250 sec	1/125 sec	1/60 sec	1/30 sec	1/15 sec	1/8 sec	1/4 sec	1/2 se	
15 14	4 13	3 12	11	. 10	9	8	7	6	5	4	1/2000 sec	1/1000 sec	1/500 sec	1/250 sec	1/125 sec	1/60 sec	1/30 sec	1/15 sec	1/8 sec	1/4 se	
16 15	<mark>5</mark> 14	1 13	12	11	10	9	8	7	6	5	1/4000 sec	1/2000 sec	1/1000 sec	1/500 sec	1/250 sec	1/125 sec	1/60 sec	1/30 sec	1/15 sec	1/8 se	
16	6 15	14	13	12	2 11	10	9	8	7	6	1/8000 sec	1/4000 sec	1/2000 sec	1/1000 sec	1/500 sec	1/250 sec	1/125 sec	1/60 sec	1/30 sec	1/15 s	
	16		14				10		8	7		1/8000 sec	1/4000 sec	1/2000 sec	1/1000 sec	1/500 sec	1/250 sec	1/125 sec	1/60 sec	1/30 s	
		16	15	14			11	10	9	8			1/8000 sec	1/4000 sec	1/2000 sec	1/1000 sec	1/500 sec	1/250 sec	1/125 sec	1/60 s	
			16	15	14	13	12	11	10	9				1/8000 sec	1/4000 sec	1/2000 sec	1/1000 sec	1/500 sec	1/250 sec	1/125	
				16	5 15	14	13	12	11	10					1/8000 sec	1/4000 sec	1/2000 sec	1/1000 sec	1/500 sec	1/250	
					16		14	13	12	11						1/8000 sec	1/4000 sec	1/2000 sec	1/1000 sec	1/500	
						16	15	14	13	12							1/8000 sec	1/4000 sec	1/2000 sec	1/1000	
							16	15	14	13								1/8000 sec	1/4000 sec	1/2000	
								16	15	14									1/8000 sec	1/4000	
									16	15										1/8000	

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Ideas grabbed from several locations, document compiled and edited by Jim Taylor

= Handheld at 1/60th with a 50mm lens. It would be 1/250th with a 200mm lens

= Flash sync speed, use 1/250 or slower

= The sunny day f16 rule = (ISO 100 @ 1/125 @ f16)

= A Neutral Density Filter, ND.9 = 3 stops (if camera is on ISO 100, it would be ISO 12)

To use ambient light plus flash you have to keep the shutter speed between 1/60 and 1/250th of a sec (using a 50mm lens) OR use a tripod The flash will stop the action like you were using a 1/32000 shutter speed, however any amient lit items will blur with slow shutter

*Don't forget to look at the EV tab below for the descriptions of EV's

EV	TYPE OF LIGHTING SITUATION							
	Night, away from city lights, subject under starlight only.							
	Night, away from city lights, subject under crescent moon.							
	Night, away from city lights, subject under half moon. Meteors (during showers, with time exposure).							
	Night, away from city lights, subject under full moon.							
	Night, away from city lights, snowscape under full moon.							
	Subjects lit by dim ambient artificial light.							
	Subjects lit by dim ambient artificial light. (Zero EV is defined as f/1.0 at one second)							
	Distant view of lighted skyline.							
2	Lightning (with time exposure). Total eclipse of moon.							
3	Fireworks (with time exposure).							
	Candle lit close-ups. Christmas lights, floodlit buildings, fountains, and monuments. Subjects under bright street							
4	lamps.							
5	Night home interiors, average light. School or church auditoriums. Subjects lit by campfires or bonfires.							
6	Brightly lit home interiors at night. Fairs, amusement parks.							
7	Bottom of rainforest canopy. Brightly lighted nighttime streets. Indoor sports. Stage shows, circuses.							
	Las Vegas or Times Square at night. Store windows. Campfires, bonfires, burning buildings. Ice shows, football,							
	baseball etc. at night. Interiors with bright florescent lights.							
	Landscapes, city skylines 10 minutes after sunset. Neon lights, spotlighted subjects.							
	Landscapes and skylines immediately after sunset. Crescent moon (long lens).							
	Sunsets. Subjects in open shade.							
	Half moon (long lens). Subject in heavy overcast.							
	Gibbous moon (long lens). Subjects in cloudy-bright light (no shadows).							
	Full moon (long lens). Subjects in weak, hazy sun.							
	Subjects in bright or hazy sun (Sunny f/16 rule).							
	Subjects in bright daylight on sand or snow.							
	Rarely encountered in nature. Some man made lighting.							
	Rarely encountered in nature. Some man made lighting.							
	Rarely encountered in nature. Some man made lighting.							
	Rarely encountered in nature. Some man made lighting.							
	Rarely encountered in nature. Some man made lighting.							
	Extremely bright. Rarely encountered in nature.							
23	Extremely bright. Rarely encountered in nature.							