

**Street Scenes/ Urban Areas**

**average brightness / high contrast lighting (try metering first)**

ASA 64- EPY, RTP	5 sec, <b>10 sec</b> , 20 sec @ f8
ASA 100- Acros	3 sec, <b>6 sec</b> , 15 sec @ f8
ASA 160- pro color neg	5 sec, <b>10 sec</b> @ f8
ASA 400- pro color neg	<b>3 sec</b> , 10 sec @ f8
ASA 800- pro color neg	<b>2 sec</b> , 6 sec @ f8
ASA 3200 (rated @1600)	1/2 sec, <b>1 sec</b> , 2 sec @ f4

**bright, lights in scene / very high contrast lighting**

ASA 64- EPY, RTP	2 sec, <b>4 sec</b> , 10 sec @ f8
ASA 100 Acros	1 sec, <b>3 sec</b> , 10 sec @ f8
ASA 160- pro color neg	2 sec, <b>8 sec</b> @f8
ASA 400- pro color neg	<b>1 sec</b> , 5 sec @ f8
ASA 800- pro color neg	<b>1/2 sec</b> , 2 sec @ f8
ASA 3200 (rated @1600)	1/4 sec, <b>1/2 sec</b> , 1 sec @ f4

**darker urban area/ no direct light**

ASA 64- EPY, RTP	<b>3 min, 5 min, 10 min @f8</b>
ASA 100 Acros	<b>1 min, 3 min, 10 min @f8</b>
ASA 160- pro color neg	<b>1 min- 2 min, 5 min @ f8</b>
ASA 400- pro color neg	30 sec-3 min @f8
ASA 800- Portra, NPZ	30 sec-2 min @ f8
ASA 3200 (rated @1600)	2 sec, <b>4 sec</b> , 10 sec @ f4

**Moonlight:**

<b>ASA 64- EPY, RTP</b>	<b>20-30 min@ f8</b>
<b>ASA 100- Acros</b>	<b>10-15 min @ f8</b>
<b>ASA 160- pro color neg</b>	<b>8-12 min @f8</b>
<b>ASA 400- pro color neg</b>	<b>5-10 min @f8</b>

**For snow scenes, cut exposures in half!**

## **B&W processing for Night Photography**

### **High/ highest Contrast scenes: compensation development**

**All Films:** Diafine, follow package directions and use distilled water to mix.  
Best results with most films, especially Acros 100. Why use anything else?

**Delta 400:** Use an EI (ISO) of 200, metering in a shadow area if possible. Xtol 1:2 for 13 minutes at 68°. agitate first 30 seconds +5 seconds every two minutes

**TMax 100:** Use an EI (ISO) of 40, metering in a shadow area. TMaxRS diluted 1:15 from stock (Part a + part B) for 13 minutes at 75 degrees agitate constantly for the first 2 minutes, +5 seconds every 2 minutes

**Ilford HP5+:** Use an EI (ISO) of 200, metering in a shadow area. D76 1:3 or 1:4 for 13-16 minutes depending on contrast range of scene. agitate first 30 seconds +5 seconds every 2 minutes

Delta 3200: Expose at 1600 ASA, process in Ilfotec DDX 1:9 for 13-15 minutes agitate first 30 seconds +5 seconds of every minute. This is mainly for exposures between 1/4 and 30 seconds.

### **For darker urban areas/ no direct light/ lower contrast: small N- development**

alternative: expose at 1/4 the recommended ASA, (ie: 100 instead of 400) and subtract 30% from the normal development time for any film.

Ilford HP5+: D76 1:2 or 1:3 for 12-14 minutes agitate first 30 seconds +5 seconds every minute.

Delta 400: Xtol 1:2 for 12-13 minutes. agitate first 30 seconds +5 seconds of every minute.

Delta 3200: Expose at 1600 ASA, process in Ilfotec DDX 1:9 for 13-15 minutes agitate first 30 seconds +5 seconds of every minute. This is mainly for exposures between 1/4 and 30 seconds.

### **For Full Moon exposures: Normal development**

All development times assume reciprocity failure is factored into exposure, see chart. All times are for 68° except T Max developer, which is usually 75°.

## Reciprocity Failure Data for B&W Films

Ilford HP5+, Tri X

Indicated Exposure	Actual Exposure
1"	1.5"
2"	4"
3"	8"
4"	12"
8"	36"
10"	50"
15"	1m35"
20"	2m
30"	3m30"
40"	4m40"
1m	8m
2m	18m
3m	25m
4m	40m
6m	1 hr
10m	2hr
15m	3hr20m
20m	4hr
30m	6hr30m
1hr	12hr30m

T Max 100 and Delta 400

2"	2.5"
5"	7"
10"	15"
15"	25"
20"	35"
30"	50"
1m	2m
2m	4.5 m
4m	10m
10m	30m
20 m	1 hr 10m
1 hr	3 hr

Fuji Acros Neopan 100: +1/2 stop aperture adjustment for metered exposures from 5 minutes up to 15 minutes. No adjustment for exposures up to 5 minutes. This stuff is amazing. Why use anything else?