

Andy's Handy Exposure Calculator

How to make it

Recommended tools: a sharp craft knife and a metal ruler.

First cut out the window and score the folds - it's easier to do this before you've cut the parts out from the page. The back of your knife blade is handy for scoring the folds.

Cut out the two parts of the exposure calculator. Glue the tab then fold and assemble the main part. When the glue is dry, slip the sliding scale inside the main part.

The sliding scale on this page has its aperture scale graduated in 1/3 f-stops. If you prefer half f-stop graduations, use the alternative scale on the next page.

How to use it

Establish the brightness (EV) of your subject, using either your hand-held light meter or the descriptions on the front and back of the calculator. (Note that the descriptions are only a guideline - if you're working from them you may wish to bracket your exposures.) Slide the sliding scale so that the ISO value of your film lines up with the appropriate EV value. Then you can read off aperture/shutter speed combinations from the lower pair of scales.

Lighting	B @ f/5.6
Fireworks	B @ f/8

Time exposures at 100 ISO

Bright room with sunbeams	8
Skylight, no sunbeams	7
Window, no sunbeams	6

Daylight, indoor

Before sunset	12-14
Sunset	11
After sunset	9-10

Sunsets

-1 EV for side lighting; -2 EV for back lighting

Bright sunshine on light sand or snow	16
Bright sunshine (hard shadows)	15
Rainbow against clear sky	14
Hazy sunshine (soft shadows)	13
Cloudy but bright daylight (no shadows)	12
Heavily overcast	11
Shaded areas in sunny conditions	10
Bottom of rain forest canopy	7

Neon signs	9
Floodlit sports stadium	8
Very brightly lit street scenes (e.g. Las Vegas)	8
Bonfires, burning buildings	7
Shop window displays	7
Brightly lit street scenes	6
Fairs, amusement parks	6
Subjects lit by firelight	5
Bright streetlamps	4
Light trails of moving traffic	3
Average streetlamps	3
Distant view of city skyline	1

Night, indoor

Cafe	8-11
Strongly spot-lit subjects	9
Bright office interior with fluorescent lights	8
Stage shows (brightly lit)	8
Ice shows	7
Indoor sports	7
Stage shows (average)	7
Circuses	6
Bright home interior	6
Swimming pool	6
Average home interior	5
Church interior	5
Floodlit buildings	4
Christmas tree lights	4
Candle-lit close-ups	4

Night, outdoor

EV

16	15	14	13	12	11	10	9	8	7	6	5	4	3
----	----	----	----	----	----	----	---	---	---	---	---	---	---

Shutter speed

2000	1000	500	250	125	60	30	15	8	4	2	1	2"	4"
------	------	-----	-----	-----	----	----	----	---	---	---	---	----	----

cut out

glue here

ISO film speed

25	50	100	200	400	800	1600	3200
----	----	-----	-----	-----	-----	------	------

Aperture

1	1.4	2	2.8	4	5.6	8	11	16	22	32
---	-----	---	-----	---	-----	---	----	----	----	----

This is the optional aperture scale graduated in half f-stops.
If you prefer 1/3 f-stop graduations, you don't need this page.

