

针孔摄影测光换算对照表（光圈F8-F800）毒镜

 dujingtou.com/article_31149.shtml

针孔摄影中两个难点一个是构图另外一个就是测光，由于光圈值过于小，很多时候我们没有合适的测光工具，除了之前推荐的手机测光之外还可以用数码相机和老式测光表测光。



针孔摄影测光换算对照表（光圈F8-F800）主要用途是使用数码相机测光，或者常规测光表只能测低光圈值的情况下，使用对照表可以快速的测出指定光圈值的曝光值（需要根据胶片类型考虑倒易律问题）。

或者直接根据阳光16法估光后，对照表格中的数值即可。自己使用的时候只需要知道自己的针孔镜头对应的光圈值看对应那一列即可。

举例子：阳光下 ISO 100的胶片，我们使用F16 快门速度125分之一，那么假设我的针孔是F300的那么对应的曝光值就是3秒钟。

计算光圈值的公式为 $f = v/d$ ，其中 f = 光圈， v = 针孔到胶片或相纸的距离， d = 针孔直径。

下载：针孔摄影测光换算对照表 (光圈F8-F800) Excel表格

| f 8 | f 16 | f 64 | f 100 | f 150 | f 200 | f 250 | f 300 | f 350 | f 400 | f 450 | f 500 | f550 | f 600 | f650 | f 700 | f 750 | f 800 |
|----------------|----------------|-----------------|-----------------|----------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|------------------|
| 1/16000 Secs | 1/4000 Secs | 1/250 Secs | 1/125 Secs | 1/60 Secs | 1/30 Secs | 1/15 Secs | 1/8 Secs | 1/4 Secs | 1/2 Secs | 1/2 Secs | 1/2 Secs | 1/2 Secs | 1/2 Secs | 1/2 Secs | 1/2 Secs | 1/2 Secs | 1/2 Secs |
| 1/8000 Secs | 1/2000 Secs | 1/125 Secs | 1/60 Secs | 1/30 Secs | 1/15 Secs | 1/8 Secs | 1/4 Secs | 1/2 Secs | 1/2 Secs | 1/2 Secs | 1/2 Secs | 1/2 Secs | 1/2 Secs | 1/2 Secs | 1/2 Secs | 1/2 Secs | 1/2 Secs |
| 1/4000 Secs | 1/1000 Secs | 1/60 Secs | 1/30 Secs | 1/15 Secs | 1/8 Secs | 1/4 Secs | 1/2 Secs | 1/2 Secs | 1/2 Secs | 1/2 Secs | 1/2 Secs | 1/2 Secs | 1/2 Secs | 1/2 Secs | 1/2 Secs | 1/2 Secs | 1/2 Secs |
| 1/2000 Secs | 1/500 Secs | 1/30 Secs | 1/15 Secs | 1/8 Secs | 1/4 Secs | 1/2 Secs | 1/2 Secs | 1/2 Secs | 1/2 Secs | 1/2 Secs | 1/2 Secs | 1/2 Secs | 1/2 Secs | 1/2 Secs | 1/2 Secs | 1/2 Secs | 1/2 Secs |
| 1/1000 Secs | 1/250 Secs | 1/15 Secs | 1/8 Secs | 1/4 Secs | 1/2 Secs | 1/2 Secs | 1/2 Secs | 1/2 Secs | 1/2 Secs | 1/2 Secs | 1/2 Secs | 1/2 Secs | 1/2 Secs | 1/2 Secs | 1/2 Secs | 1/2 Secs | 1/2 Secs |
| 1/500 Secs | 1/125 Secs | 1/8 Secs | 1/4 Secs | 1/2 Secs | 1/2 Secs | 1/2 Secs | 1/2 Secs | 1/2 Secs | 1/2 Secs | 1/2 Secs | 1/2 Secs | 1/2 Secs | 1/2 Secs | 1/2 Secs | 1/2 Secs | 1/2 Secs | 1/2 Secs |
| 1/250 Secs | 1/60 Secs | 1/4 Secs | 1/2 Secs | 1/2 Secs | 1/2 Secs | 1/2 Secs | 1/2 Secs | 1/2 Secs | 1/2 Secs | 1/2 Secs | 1/2 Secs | 1/2 Secs | 1/2 Secs | 1/2 Secs | 1/2 Secs | 1/2 Secs | 1/2 Secs |
| 1/125 Secs | 1/30 Secs | 1/2 Secs | 1 Secs | 3 Secs | 6 Secs | 8 Secs | 11 Secs | 15 Secs | 20 Secs | 25 Secs | 31 Secs | 38 Secs | 45 Secs | 53 Secs | 61 Secs | 70 Secs | 80 Secs |
| 1/60 Secs | 1/15 Secs | 1 Secs | 2 Secs | 6 Secs | 10 Secs | 16 Secs | 22 Secs | 31 Secs | 40 Secs | 50 Secs | 1 Mins 2 Secs | 1 Mins 15 Secs | 1 Mins 29 Secs | 2 Mins 45 Secs | 2 Mins 2 Secs | 2 Mins 20 Secs | 3 Mins 39 Secs |
| 1/30 Secs | 1/8 Secs | 2 Secs | 5 Secs | 11 Secs | 20 Secs | 31 Secs | 45 Secs | 1 Mins 1 Secs | 1 Mins 19 Secs | 2 Mins 40 Secs | 2 Mins 4 Secs | 3 Mins 30 Secs | 3 Mins 59 Secs | 4 Mins 30 Secs | 4 Mins 4 Secs | 5 Mins 40 Secs | 5 Mins 18 Secs |
| 1/15 Secs | 1/4 Secs | 4 Secs | 10 Secs | 22 Secs | 40 Secs | 1 Mins 2 Secs | 1 Mins 29 Secs | 2 Mins 2 Secs | 3 Mins 39 Secs | 3 Mins 21 Secs | 4 Mins 9 Secs | 5 Mins 1 Secs | 6 Mins 58 Secs | 7 Mins 1 Secs | 8 Mins 8 Secs | 9 Mins 20 Secs | 11 Mins 37 Secs |
| 1/8 Secs | 1/2 Secs | 8 Secs | 20 Secs | 45 Secs | 1 Mins 19 Secs | 2 Mins 4 Secs | 3 Mins 59 Secs | 4 Mins 4 Secs | 5 Mins 18 Secs | 7 Mins 43 Secs | 8 Mins 18 Secs | 10 Mins 2 Secs | 12 Mins 57 Secs | 14 Mins 2 Secs | 16 Mins 16 Secs | 19 Mins 41 Secs | 22 Mins 15 Secs |
| 1/4 Secs | 1 Secs | 16 Secs | 40 Secs | 1 Mins 29 Secs | 3 Mins 39 Secs | 4 Mins 9 Secs | 6 Mins 58 Secs | 8 Mins 8 Secs | 11 Mins 37 Secs | 17 Mins 27 Secs | 21 Mins 17 Secs | 26 Mins 5 Secs | 34 Mins 4 Secs | 43 Mins 4 Secs | 54 Mins 4 Secs | 67 Mins 22 Secs | 83 Mins 31 Secs |
| 1/2 Secs | 2 Secs | 33 Secs | 1 Mins 19 Secs | 3 Mins 59 Secs | 5 Mins 18 Secs | 8 Mins 18 Secs | 12 Mins 57 Secs | 16 Mins 16 Secs | 21 Mins 17 Secs | 27 Mins 17 Secs | 34 Mins 4 Secs | 43 Mins 4 Secs | 54 Mins 4 Secs | 67 Mins 22 Secs | 83 Mins 31 Secs | 103 Mins 25 Secs | 128 Mins 15 Secs |
| 1 Secs | 4 Secs | 1 Mins 5 Secs | 3 Mins 39 Secs | 6 Mins 58 Secs | 11 Mins 37 Secs | 17 Mins 27 Secs | 24 Mins 54 Secs | 33 Mins 33 Secs | 43 Mins 31 Secs | 54 Mins 48 Secs | 1 Mins 6 Secs | 1 Mins 20 Secs | 2 Mins 36 Secs | 3 Mins 52 Secs | 5 Mins 10 Secs | 6 Mins 29 Secs | 8 Mins 50 Secs |
| 2 Secs | 8 Secs | 2 Mins 10 Secs | 5 Mins 18 Secs | 12 Mins 57 Secs | 21 Mins 15 Secs | 33 Mins 12 Secs | 48 Mins 49 Secs | 1 Mins 5 Mins | 1 Mins 25 Mins | 2 Mins 48 Mins | 3 Mins 13 Mins | 4 Mins 41 Mins | 5 Mins 45 Mins | 7 Mins 45 Mins | 9 Mins 20 Mins | 11 Mins 59 Mins | 15 Mins 40 Mins |
| 4 Secs | 16 Secs | 4 Mins 21 Secs | 11 Mins 37 Secs | 24 Mins 54 Secs | 43 Mins 31 Secs | 1 Mins 6 Mins | 2 Mins 36 Mins | 2 Mins 10 Mins | 3 Mins 50 Mins | 4 Mins 35 Mins | 5 Mins 26 Mins | 6 Mins 23 Mins | 7 Mins 23 Mins | 9 Mins 29 Mins | 12 Mins 41 Mins | 16 Mins 58 Mins | 21 Mins 20 Mins |
| 8 Secs | 33 Secs | 9 Mins 42 Secs | 21 Mins 15 Secs | 43 Mins 49 Secs | 1 Mins 25 Mins | 2 Mins 13 Mins | 3 Mins 11 Mins | 4 Mins 20 Mins | 6 Mins 40 Mins | 7 Mins 10 Mins | 9 Mins 51 Mins | 11 Mins 43 Mins | 13 Mins 45 Mins | 15 Mins 58 Mins | 17 Mins 22 Mins | 20 Mins 56 Mins | 23 Mins 41 Mins |
| 16 Secs | 1 Mins 5 Secs | 17 Mins 24 Secs | 43 Mins 31 Secs | 1 Mins 2 Hrs 36 Secs | 3 Mins 50 Mins | 4 Mins 26 Mins | 6 Mins 23 Mins | 9 Mins 41 Mins | 11 Mins 20 Mins | 14 Mins 21 Mins | 18 Mins 43 Mins | 21 Mins 26 Mins | 26 Mins 31 Mins | | | | |
| 33 Secs | 2 Mins 10 Secs | 35 Mins 49 Secs | 1 Mins 25 Mins | 3 Mins 11 Mins | 6 Mins 40 Mins | 9 Mins 51 Mins | 13 Mins 45 Mins | 17 Mins 22 Mins | 23 Mins 41 Mins | | | | | | | | |
| 1 Mins 5 Secs | 4 Mins 21 Secs | 1 Mins 10 Mins | 3 Mins 50 Mins | 6 Mins 23 Mins | 11 Mins 20 Mins | 18 Mins 43 Mins | 26 Mins 31 Mins | | | | | | | | | | |
| 2 Mins 10 Secs | 9 Mins 42 Secs | 2 Mins 19 Mins | 6 Mins 40 Mins | 13 Mins 45 Mins | 23 Mins 41 Mins | | | | | | | | | | | | |



给毒镜头投稿：

镜头测试样片的量还是太少了，如果大家有老镜头新镜头的测试照、使用心得、评测报告、以及您自己觉得满意的照片，都可以投稿给我们，我们可以在网站和公众号发布，您可以微信投稿或者点击上面的图片给我发邮件，内容为样片、您的介绍、个人介绍、器材简介等。希望大家能多给我们一些帮助和支持。（[点击马上投稿>>>](#)）

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