

Profondeur de Champs

The background features a dark blue gradient with a series of curved, glowing lines that create a sense of depth and movement, resembling a tunnel or a field of light rays. The lines are more prominent on the right side, where they form a bright, glowing tunnel-like structure that recedes into the distance.





Comment Agir / PdC ?

5 Facteurs

Le Capteur

L'ouverture du Diaphragme

La Distance Focale

La distance Appareil / Sujet

La distance Sujet / Fond

Le Capteur

Reflex



Plein Format
24 x 36 mm



864 mm²



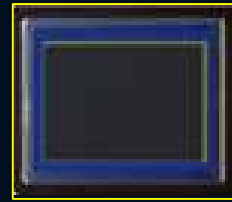
APS - C
16 x 24 mm



384 mm²

< 2,25 x

Hybrides

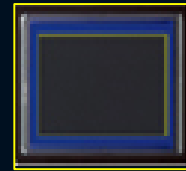


Micro 4/3
13 x 17,3 mm



224 mm²

< 3,85 x



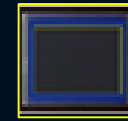
1 Pouce
13,2 x 8,8 mm



116,2 mm²

< 7,4 x

Compacts



1 / 1,7"
7,6 x 5,7 mm



43,3 mm²

< 20 x



1 / 2,3"
6,1 x 4,6 mm



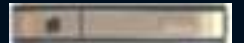
28,1 mm²

< 31 x

Tél.

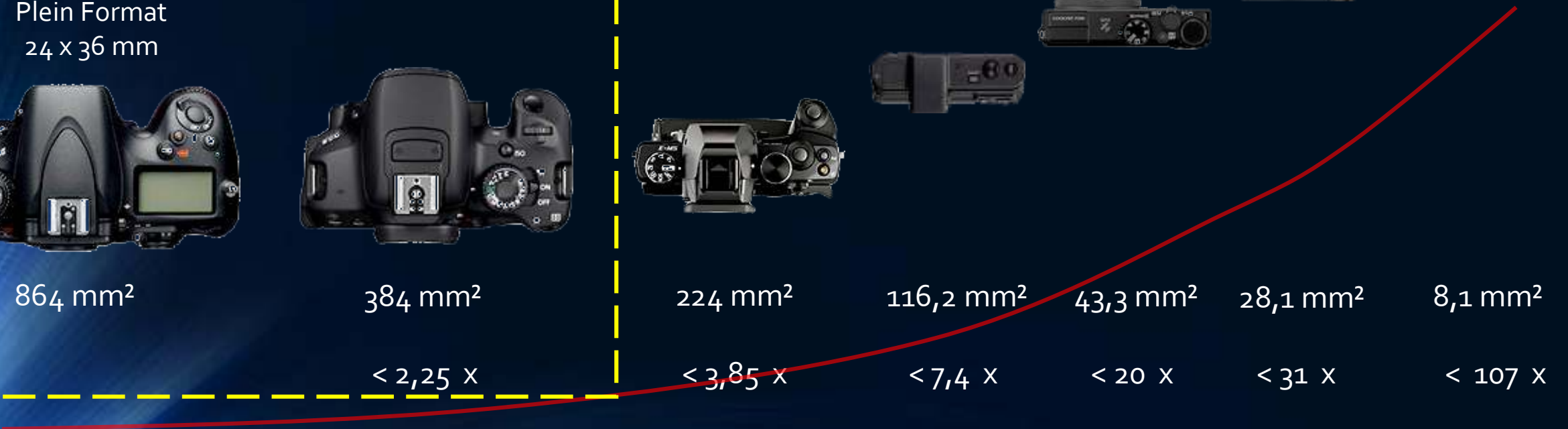


1/4"
3,2 x 2,4 mm



8,1 mm²

< 107 x



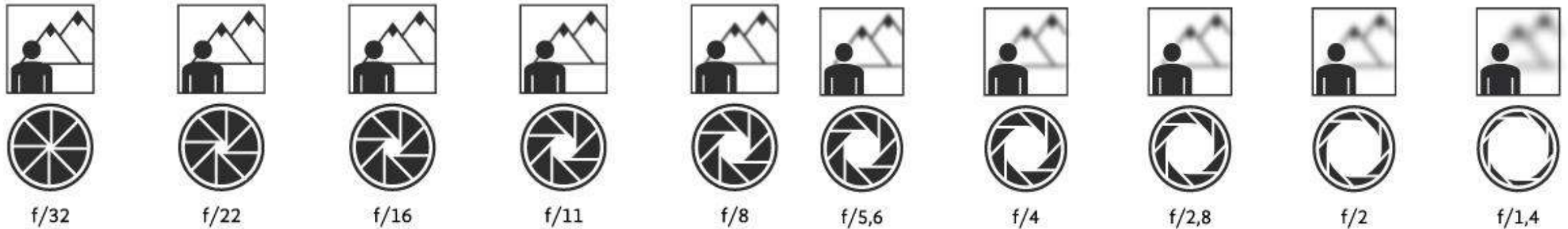
Le Diaphragme



$$N = f/D$$
$$N = 1 \times \sqrt{2} = \pm 1,41$$

Plus Petite Ouverture
Plus Grand Chiffre
Plus Grande Prof de Champs

Plus Grande Ouverture
Plus Petit Chiffre
Plus Petite Prof de Champs



Un grand chiffre de diaphragme = une grande profondeur de champ.

Un petit chiffre de diaphragme = une petite profondeur de champ.

Variation de L'ouverture

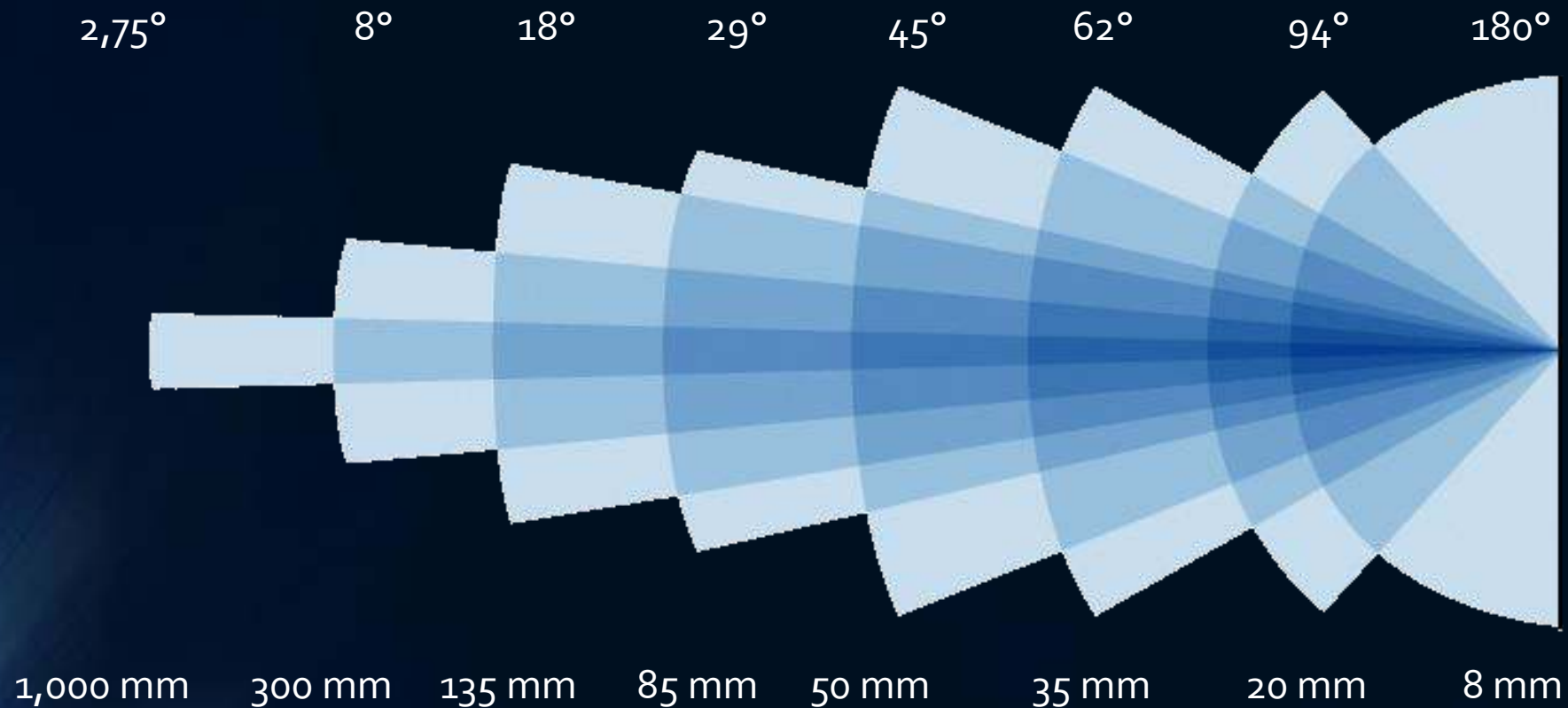
$f/1.4$



La Focale

Plus la focale est courte et plus la profondeur de champ est importante.

Plus la focale est longue et plus la profondeur de champ est limitée.



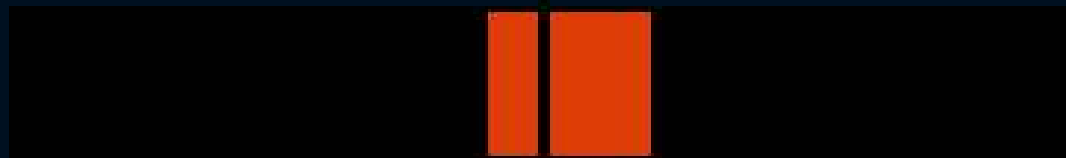
La Focale

Mise au Point à 4 Mètres

Longue Focale



600 mm F/8



Focale Standard



50 mm F/8



Grand-Angle



24 mm F/8



Distance Appareil / Sujet



Outils de Vérification



Digital Depth of Field

Camera: 35mm Full Frame

Focal Length: 50 mm

Aperture: 5.6

Distance: 10 ft 0.0

Depth of Field: 4' 2.4"

Near Distance: 0' 3.9"

Far Distance: 12' 6.3"

Hyperfocal Distance: 48' 9.9"

Field of View: 1' 8.1" 40%

Circle of Confusion: 2' 6.3" 60%

Inc beta: CoC: 0.0011811 in

Profondeur de Champ

Profondeur de champ: 57.3 cm

Limite sans nette:

de: 4.73 m à: 5.30 m

| focale | f/stop | distance |
|--------|--------|----------|
| 35 mm | f/1.8 | 3 m |
| 50 mm | f/2.8 | 5 m |
| 85 mm | f/4 | 7 m |
| 135 mm | f/5.6 | 10 m |

Nikon D300, 200, D100

12.37 ft

3.98 ft

8.39 ft

Hyperfocal 51.43 ft

| f/stop | lens | focus |
|--------|-------|------------|
| 6.7 | 48 | 8 |
| 7.1 | 49 | 9 |
| 7.8 | 50 mm | 10 ft 0 in |
| 9 | 51 | 11 1 |
| 9.5 | 52 | 12 2 |



DoF Table

| | 10ft | 12ft | 14ft | 16ft |
|------|--------|--------|--------|--------|
| 0.2m | 10.6mm | 11.9mm | 13.6mm | 15.8mm |
| 0.3m | 15.9mm | 17.0mm | 19.0mm | 22.0mm |
| 0.4m | 27.8mm | 30.0mm | 33.4mm | 37.5mm |
| 0.5m | 43.2mm | 46.3mm | 50.5mm | 56.8mm |
| 0.7m | 66.2mm | 69.8mm | 75.0mm | 82.5mm |
| 1m | 108mm | 114mm | 122mm | 132mm |
| 1.5m | 160mm | 167mm | 177mm | 190mm |
| 2m | 235mm | 244mm | 257mm | 275mm |
| 3m | 372mm | 386mm | 407mm | 434mm |
| 4m | 482mm | 500mm | 521mm | 551mm |
| 5m | 562mm | 581mm | 603mm | 634mm |
| 7m | 742mm | 763mm | 791mm | 825mm |
| 10m | 1082mm | 1115mm | 1151mm | 1191mm |

Equipment:
 Canon: E-M10 Mark II
 Tamron: M7000 Digital 17mm FLD

Near H-Focal: 206in

Hyperfocal: 412in

Far H-Focal: infinity

19.1in Near Focus

20in Focus

20.9in Far Focus

1.76in Depth of Field

Canon EOS 6D

| Aperture | f/stop | Distance | Units |
|----------|--------|----------|-------|
| 48mm | f/5.6 | 18 | mm |
| 49mm | f/7.1 | 19 | cm |
| 50mm | f/8.0 | 20 | in |
| 51mm | f/9.0 | 21 | dm |
| 52mm | f/10 | 22 | ft |

Depth of Field

3.8m Rear

1.3m Front

4.9m Total

HF

Canon EOS 6D

Depth of Field: 1.76m

Aperture: 5.6



Résumé

Plus le **capteur** est PETIT (bridge, compact, Tél) plus la **PdC** est **importante**

Plus l'**Ouverture** est PETITE plus la PdC est **importante**

Plus la **Focale** est PETITE plus la PdC est **importante**

Plus la Distance **appareil/ sujet** est GRANDE plus la PdC est **importante**

Plus la distance **sujet / fond** est COURTE plus la PdC est **importante**

