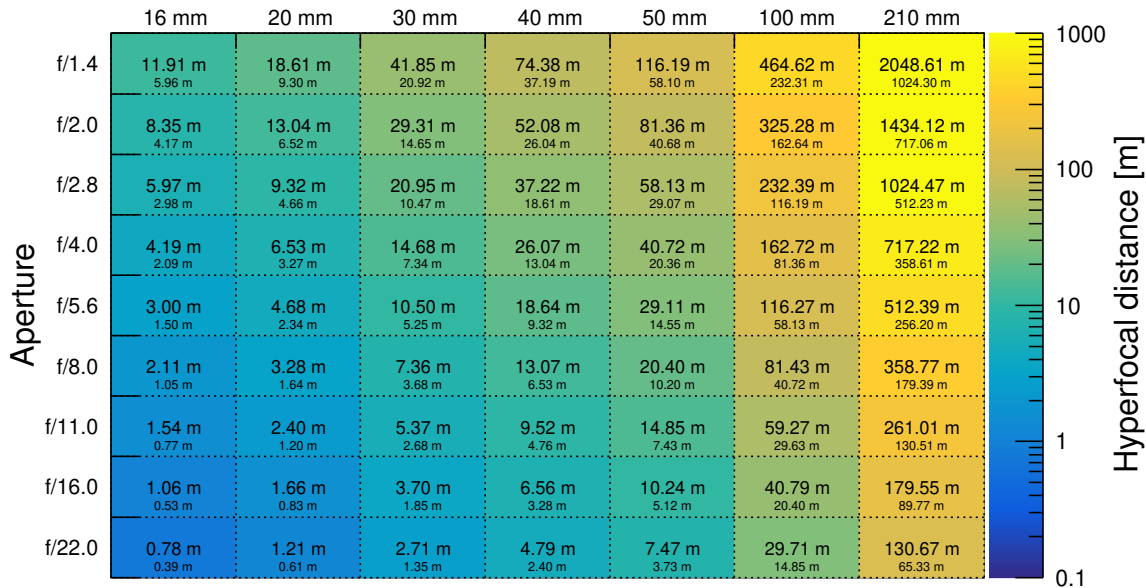


Hyperfocal distance

Hyperfocal distance | Sony α 6000 (aps-c) | CoC = 0.036 mm

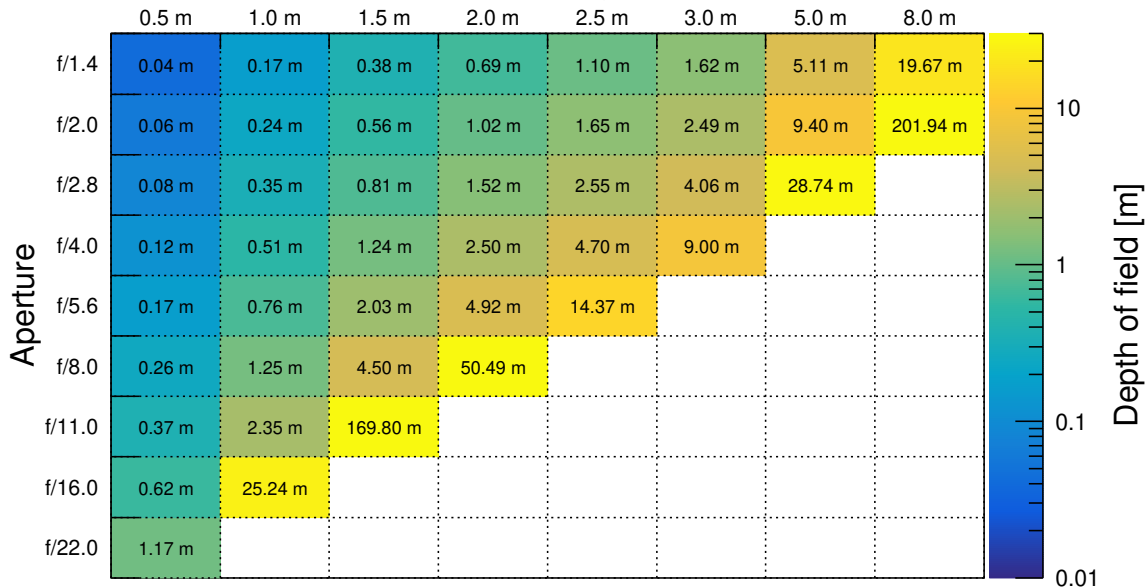
Focal length



Depth of Field

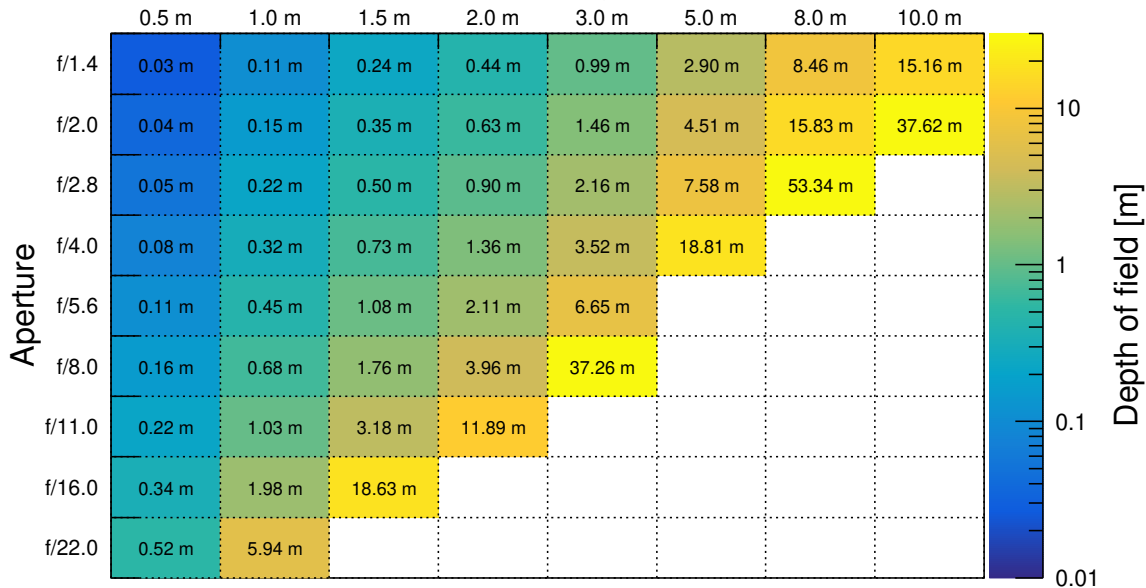
Depth of Field | **Focal length = 16 mm** | Sony α 6000 (aps-c) | CoC = 0.036 mm

Focus length



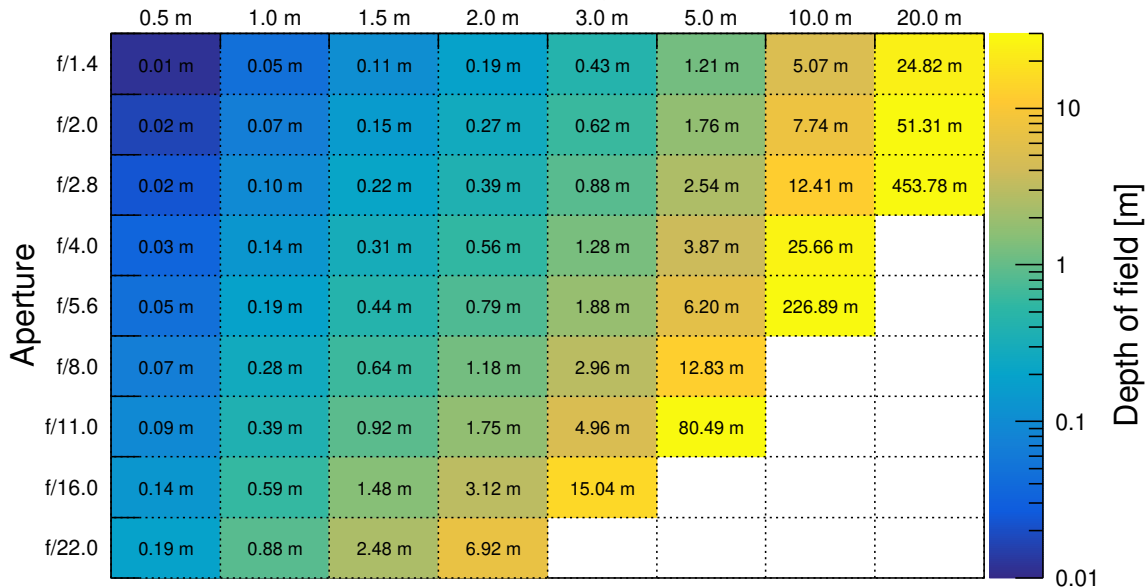
Depth of Field | **Focal length = 20 mm** | Sony α 6000 (aps-c) | CoC = 0.036 mm

Focus length



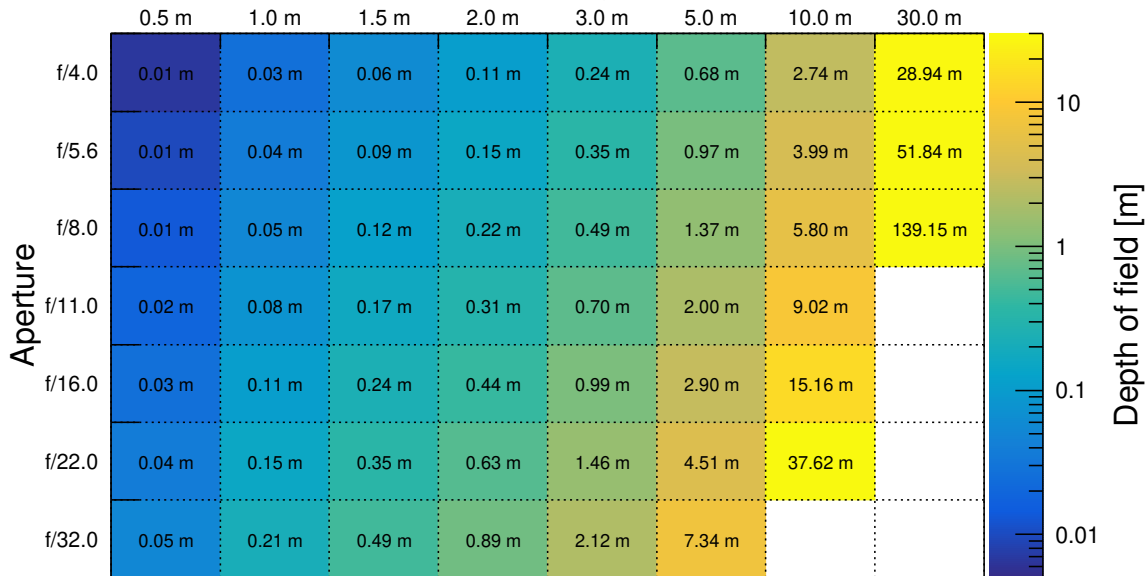
Depth of Field | **Focal length = 30 mm** | Sony α 6000 (aps-c) | CoC = 0.036 mm

Focus length



Depth of Field | **Focal length = 40 mm** | Sony α 6000 (aps-c) | CoC = 0.036 mm

Focus length



Depth of Field | **Focal length = 50 mm** | Sony α 6000 (aps-c) | CoC = 0.036 mm

Focus length

1.0 m 2.0 m 3.0 m 5.0 m 10.0 m 20.0 m 30.0 m 50.0 m

Aperture

f/4.0

0.02 m

0.07 m

0.16 m

0.43 m

1.74 m

7.10 m

16.61 m

52.86 m

f/5.6

0.02 m

0.10 m

0.22 m

0.62 m

2.50 m

10.48 m

25.64 m

98.96 m

f/8.0

0.03 m

0.14 m

0.31 m

0.87 m

3.55 m

15.63 m

42.30 m

333.39 m

f/11.0

0.05 m

0.20 m

0.45 m

1.25 m

5.24 m

25.98 m

97.32 m

f/16.0

0.07 m

0.28 m

0.63 m

1.78 m

7.82 m

52.46 m

f/22.0

0.10 m

0.40 m

0.91 m

2.62 m

12.99 m

1258.70 m

f/32.0

0.14 m

0.55 m

1.27 m

3.82 m

24.96 m

10

1

0.1

0.01

Depth of field [m]

Depth of Field | **Focal length = 100 mm** | Sony α 6000 (aps-c) | CoC = 0.036 mm

Focus length

1.0 m 2.0 m 5.0 m 10.0 m 20.0 m 50.0 m 100.0 m 200.0 m

Aperture

f/5.6

0.00 m

0.02 m

0.11 m

0.43 m

1.73 m

10.89 m

45.15 m

211.45 m

f/8.0

0.01 m

0.02 m

0.15 m

0.62 m

2.47 m

15.75 m

67.94 m

395.85 m

f/11.0

0.01 m

0.03 m

0.22 m

0.86 m

3.47 m

22.58 m

105.72 m

1333.54 m

f/16.0

0.01 m

0.05 m

0.31 m

1.23 m

5.00 m

33.97 m

197.93 m

f/22.0

0.02 m

0.07 m

0.43 m

1.74 m

7.10 m

52.86 m

666.77 m

f/32.0

0.02 m

0.10 m

0.62 m

2.50 m

10.48 m

98.96 m

10

1

0.1

0.01

0.001

Depth of field [m]

Depth of Field | **Focal length = 210 mm** | Sony α 6000 (aps-c) | CoC = 0.036 mm

Focus length

2.0 m 5.0 m 10.0 m 50.0 m 100.0 m 200.0 m 500.0 m 1000.0 m

Aperture

f/5.6

0.00 m

0.02 m

0.10 m

2.44 m

9.79 m

39.43 m

259.57 m

1281.99 m

f/8.0

0.01 m

0.03 m

0.14 m

3.49 m

14.02 m

56.90 m

397.00 m

2716.08 m

f/11.0

0.01 m

0.05 m

0.20 m

4.89 m

19.72 m

81.21 m

640.99 m

41912.62 m

f/16.0

0.01 m

0.07 m

0.28 m

7.01 m

28.45 m

121.01 m

1358.04 m

f/22.0

0.02 m

0.10 m

0.39 m

9.86 m

40.61 m

184.35 m

20956.31 m

f/32.0

0.02 m

0.14 m

0.56 m

14.23 m

60.50 m

324.07 m

10

1

0.1

0.01

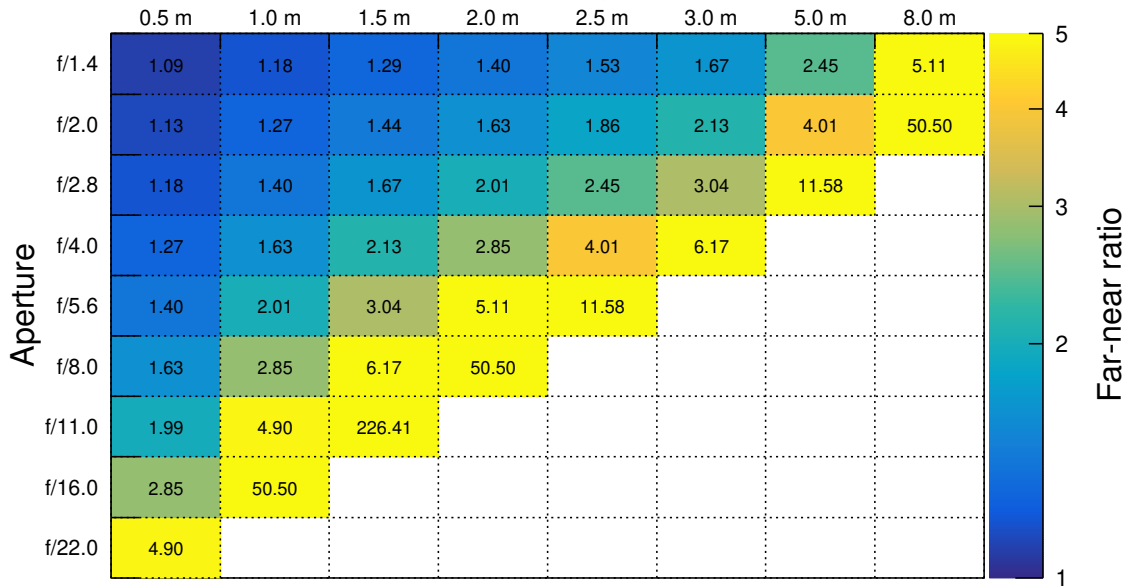
0.001

Depth of field [m]

Far-Near ratio

Far-Near ratio | **Focal length = 16 mm** | Sony α 6000 (aps-c) | CoC = 0.036 mm

Focus length



Far-Near ratio | **Focal length = 20 mm** | Sony α 6000 (aps-c) | CoC = 0.036 mm

Focus length

0.5 m 1.0 m 1.5 m 2.0 m 3.0 m 5.0 m 8.0 m 10.0 m

Aperture

f/1.4

1.06

1.11

1.18

1.24

1.39

1.74

2.51

3.33

f/2.0

1.08

1.17

1.26

1.36

1.60

2.25

4.20

7.66

f/2.8

1.11

1.24

1.39

1.55

1.95

3.33

13.41

f/4.0

1.17

1.36

1.60

1.89

2.71

7.66

f/5.6

1.24

1.55

1.95

2.51

4.65

f/8.0

1.36

1.89

2.71

4.20

24.88

f/11.0

1.54

2.47

4.47

11.97

f/16.0

1.89

4.20

24.88

f/22.0

2.47

11.97

5

4

3

2

Far-near ratio

1

Far-Near ratio | **Focal length = 30 mm** | Sony α 6000 (aps-c) | CoC = 0.036 mm

Focus length

0.5 m 1.0 m 1.5 m 2.0 m 3.0 m 5.0 m 10.0 m 20.0 m

Aperture

f/1.4

1.02

1.05

1.07

1.10

1.15

1.27

1.63

2.83

f/2.0

1.03

1.07

1.11

1.15

1.23

1.41

2.04

5.32

f/2.8

1.05

1.10

1.15

1.21

1.34

1.63

2.83

45.40

f/4.0

1.07

1.15

1.23

1.32

1.52

2.04

5.32

f/5.6

1.10

1.21

1.34

1.47

1.81

2.83

45.40

f/8.0

1.15

1.32

1.52

1.75

2.39

5.32

f/11.0

1.21

1.46

1.79

2.20

3.59

32.23

f/16.0

1.32

1.75

2.39

3.41

10.12

f/22.0

1.46

2.20

3.59

7.06

5

4

3

2

1

Far-near ratio

Far-Near ratio | **Focal length = 40 mm** | Sony α 6000 (aps-c) | CoC = 0.036 mm

Focus length

0.5 m 1.0 m 1.5 m 2.0 m 3.0 m 5.0 m 10.0 m 30.0 m

Aperture

f/4.0

1.01

1.03

1.04

1.06

1.08

1.14

1.31

2.35

f/5.6

1.02

1.04

1.06

1.08

1.12

1.21

1.48

3.72

f/8.0

1.03

1.06

1.08

1.11

1.18

1.31

1.74

9.38

f/11.0

1.04

1.08

1.12

1.17

1.26

1.48

2.25

f/16.0

1.06

1.11

1.18

1.24

1.39

1.74

3.33

f/22.0

1.08

1.17

1.26

1.36

1.60

2.25

7.66

f/32.0

1.11

1.24

1.38

1.54

1.93

3.24

5

4

3

2

Far-near ratio

1

Far-Near ratio | **Focal length = 50 mm** | Sony α 6000 (aps-c) | CoC = 0.036 mm

Focus length

1.0 m 2.0 m 3.0 m 5.0 m 10.0 m 20.0 m 30.0 m 50.0 m

Aperture

f/4.0

1.02

1.04

1.05

1.09

1.19

1.42

1.70

2.51

f/5.6

1.02

1.05

1.08

1.13

1.28

1.65

2.17

4.20

f/8.0

1.04

1.07

1.11

1.19

1.42

2.05

3.14

13.41

f/11.0

1.05

1.10

1.16

1.28

1.65

2.94

6.64

f/16.0

1.07

1.15

1.23

1.42

2.05

5.43

f/22.0

1.10

1.22

1.35

1.65

2.94

125.88

f/32.0

1.15

1.31

1.51

2.02

5.19

5

4

3

2

1

Far-near ratio

Far-Near ratio | **Focal length = 100 mm** | Sony α 6000 (aps-c) | CoC = 0.036 mm

Focus length

1.0 m 2.0 m 5.0 m 10.0 m 20.0 m 50.0 m 100.0 m 200.0 m

Aperture

f/5.6

1.00

1.01

1.02

1.04

1.09

1.24

1.55

2.51

f/8.0

1.01

1.01

1.03

1.06

1.13

1.36

1.89

4.20

f/11.0

1.01

1.02

1.04

1.09

1.19

1.55

2.51

13.41

f/16.0

1.01

1.02

1.06

1.13

1.28

1.89

4.20

f/22.0

1.02

1.04

1.09

1.19

1.42

2.51

13.41

f/32.0

1.02

1.05

1.13

1.28

1.65

4.20

Far-near ratio

5

4

3

2

1

Far-Near ratio | **Focal length = 210 mm** | Sony α 6000 (aps-c) | CoC = 0.036 mm

Focus length

2.0 m 5.0 m 10.0 m 50.0 m 100.0 m 200.0 m 500.0 m 1000.0 m

Aperture

f/5.6

1.00

1.00

1.01

1.05

1.10

1.22

1.65

2.91

f/8.0

1.00

1.01

1.01

1.07

1.15

1.32

2.07

5.61

f/11.0

1.00

1.01

1.02

1.10

1.22

1.49

2.91

83.84

f/16.0

1.01

1.01

1.03

1.15

1.32

1.77

5.61

f/22.0

1.01

1.02

1.04

1.22

1.49

2.28

83.84

f/32.0

1.01

1.03

1.06

1.32

1.77

3.52

5

4

3

2

Far-near ratio

1