

- 1 Set the camera to manual mode.
- 2 Set the image file format to RAW.
- 3 Set the flash exposure time to $\geq 1/250$ s (flash sync speed).
- 4 Set the aperture between F8 and F16.
- 5 Adjust the white balance when using flashes; select the flash preset.
- 6 Select manual focus.
- 7 Select ISO 100 (base ISO).
- 8 Set the image format to 3:2.
- 9 Minimum camera requirements: full-frame sensor, 24 megapixels.
- 10 Minimum lens requirements: focal length ≥ 50 mm.

Aperture

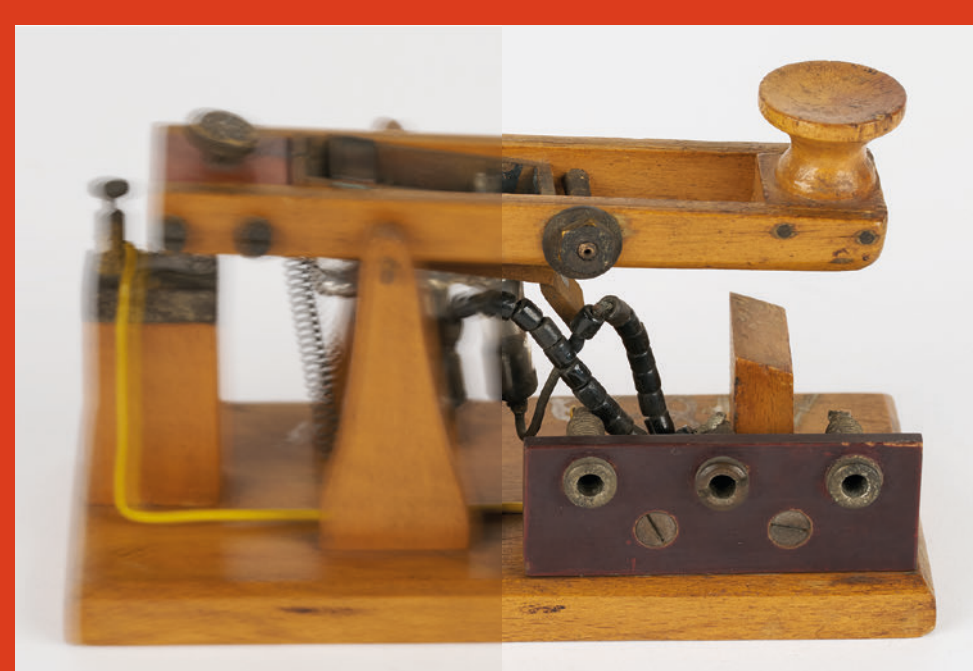
f/2 f/16



The higher the number, the smaller the opening and the greater the depth of field.

Exposure Time

1" 1/1000



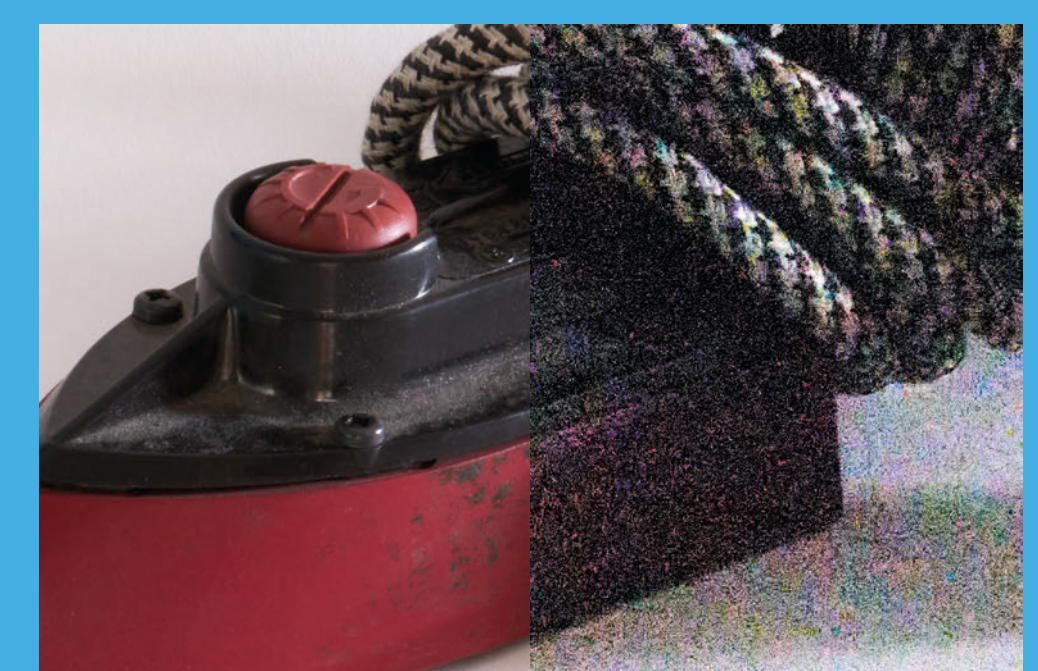
When shooting hand-held images or moving subjects, longer exposure times result in motion blur.



When using flashes, an exposure time shorter than the flash sync speed (often $1/250$ s) will cause the object to be only partially illuminated.

ISO

100 51200



The sensitivity of the camera sensor determines image noise. A low value results in minimal noise.

Sensor

(True to size, megapixel = MP)



Medium format
up to 150 MP
44 x 33 mm



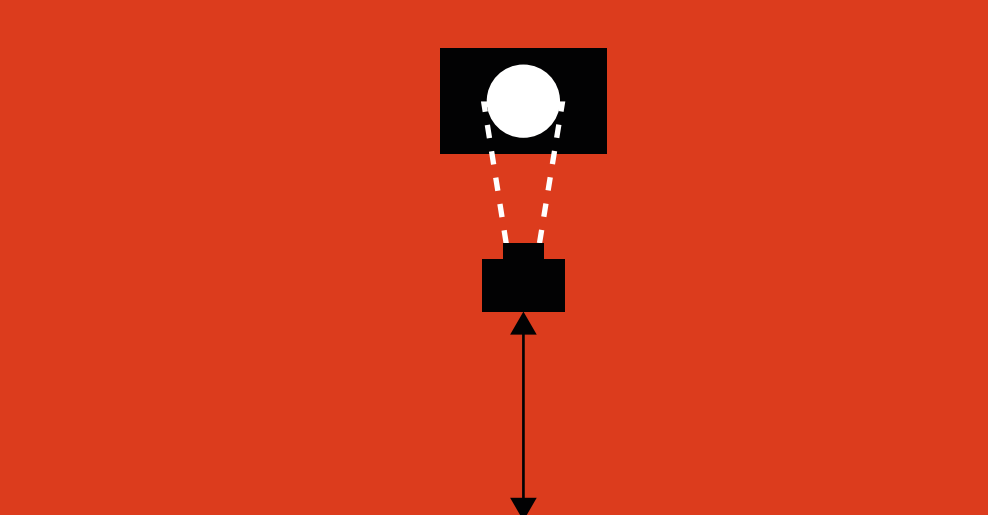
Full frame
up to 61 MP
36 x 24 mm



Smartphone
6.16 x 4.62 mm

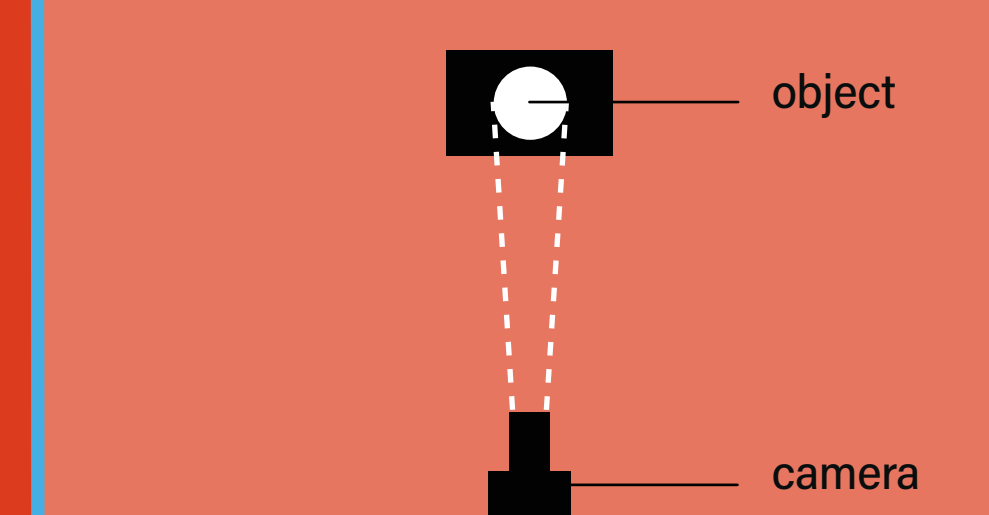
Focal Length

Wide-angle Lens



Wide-angle lenses are poorly suited for object photography because they cause distortions.

Telephoto Lens



Example:
wide-angle lens = 24 mm
telephoto lens = 70 mm