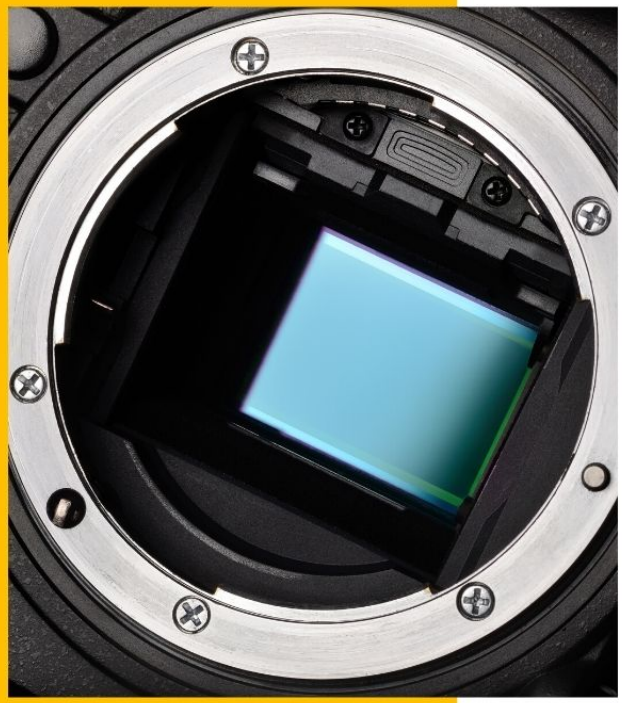
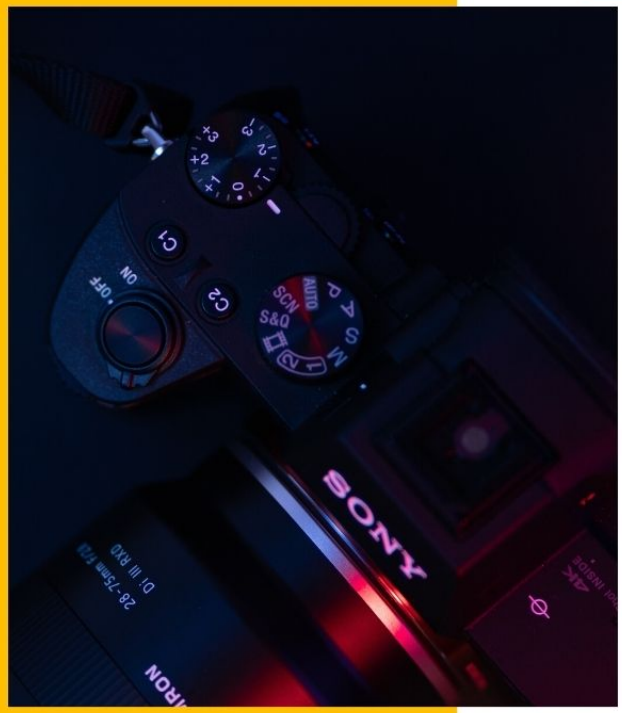


## CAMERA SENSORS

Different cameras have different sensor sizes.  Each sensor comes with its own pros or cons that depend entirely on your own needs. Full frame sensors replicates classic 35mm film cameras, whereas crop sensors are smaller, cropping the edges for a more restricted view. The crop size varies from brand to brand.



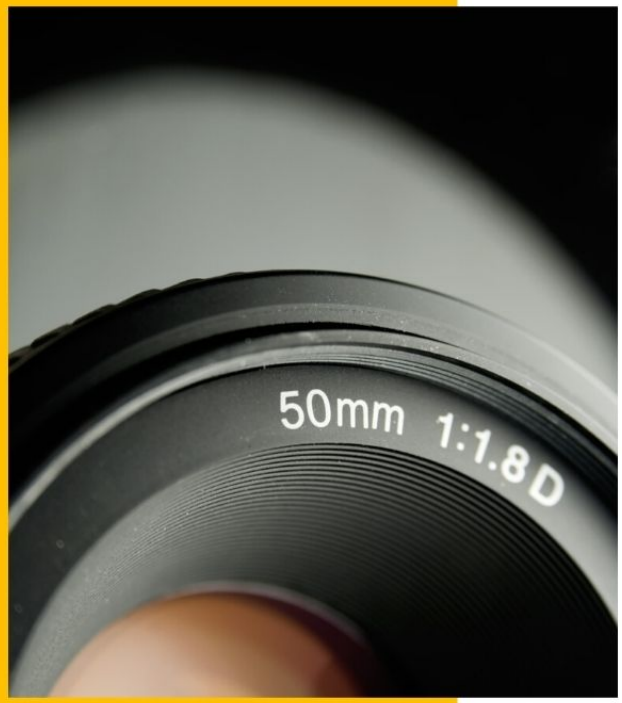

Before digital cameras most people shot on 35mm film cameras (apart from some pros shooting medium or large format cameras). 35mm refers to the dimensions of the frame of film, not the focal length of the lens.

In photography, a 35mm camera with a 50mm lens, would produce an image more or less how we see it with the human eye.

# CROP FACTOR - WHAT IS IT?

Quick guide on how the crop factor of your camera impacts on your photos

PHOTO
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# THEN DIGITAL CAMERAS ARRIVED

When the first digital cameras arrived, most had sensors smaller than 35mm film, providing some new challenges.

Because the sensors were smaller, the images seen through a lens of any particular focal length had a different field of view than that of the same lens on a 35mm film camera.

A traditional 50mm lens no longer had the same field of view; it took on more of a telephoto effect.

Therefore, to get the equivalent focal length of a lens when shooting on a Crop Sensor, you can calculate and work it out.

A rough rule of thumb is approximately 1.5x or 1.6x

## CROP FACTOR - WHAT IS IT?

E.g. A 50mm lens on a camera with a 1.5x crop factor APS-C sensor gives a field of view equivalent to that of a 75mm lens on a full-frame or 35mm film camera.

A 70-200mm lens becomes a virtual 105-300mm lens on a 1.5x APS-C sensor.

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Example of telephone effect of crop sensor

*Benefits of Full Frame Sensor* - Better quality, better in low light, better dynamic range, more capable of producing shallow depth of field and wider field of view (needed for landscape photography)

*Benefits of Crop Sensor* - Lighter/Smaller, Normally less expensive, tighter field of view (telephoto effect) so good for some genres of photography such as sports and wildlife

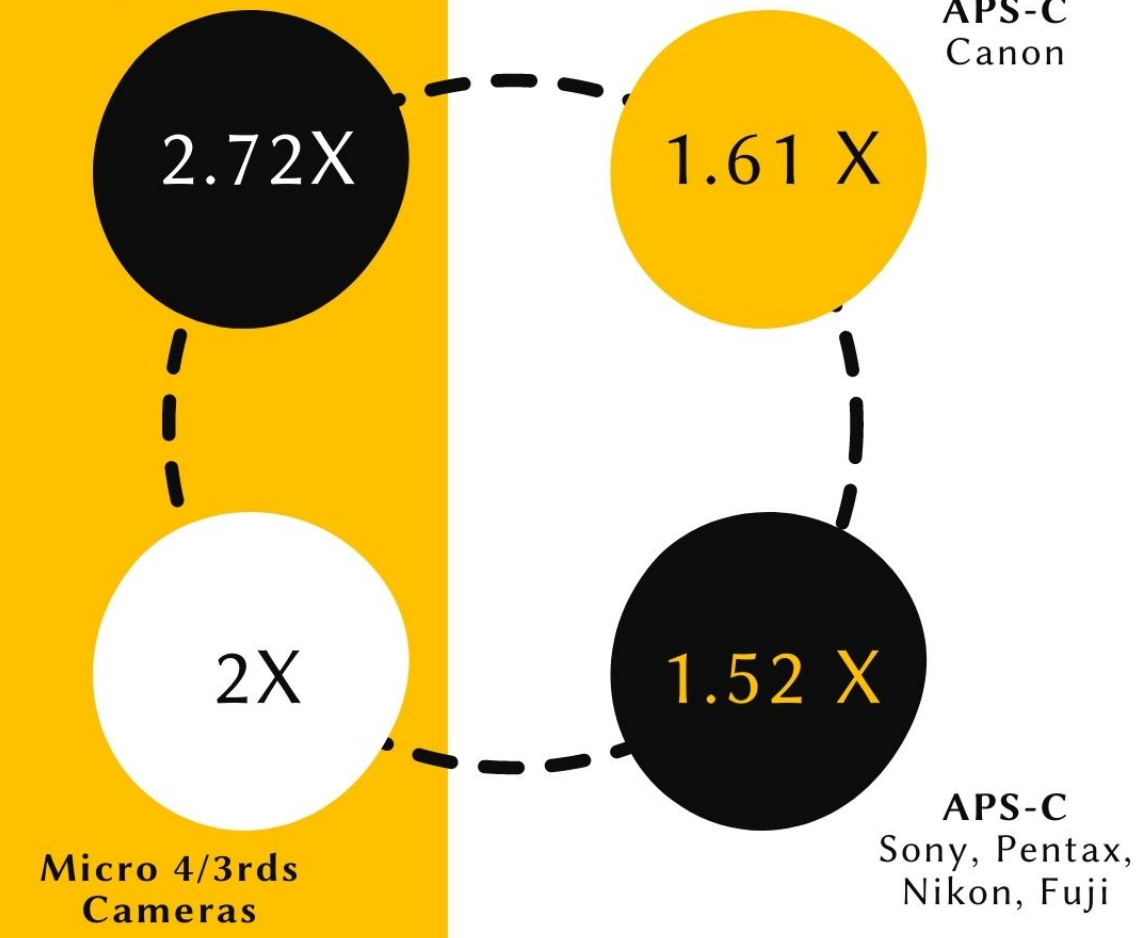
## CROP FACTOR - WHAT IS IT?

The most common crop sensors are APS-C (Canon, Nikon & Sony) and Micro Four Thirds (Panasonic and Olympus).

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# FIND OUT YOUR CAMERA'S CROP FACTOR

## COMMON CROP FACTORS




CROP FACTOR

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