

Brickcom

Lens Introduction

F&E Team
2011.8

Agenda



Lens



Lens Type



Lens mount standard



Focal Length



Iris



F-Number



Auto Focus

Lens

❖ Lens

Lens is used for your camera to focus on target schemes and adjust the light input

• ❖ Lens type

- Fixed focal lens
- Varifocal lens
- Zoom lens

Lens Types

❖ Fixed Lens

- Focal length is fixed
- Only one field of view is available



Lens Types

❖ Varifocal Lens

- Offer a range of focal lengths
- Different field of view
- Manually adjust
- Refocus the lens when view changed
- 3~8mm focal length



Lens Types

❖ Zoom lens

- Like varifocal lens
- No need to refocus
- Lens adjustments can be motorized for remote control
- 6~48mm focal length



Lens mount standard

❖ CS mount

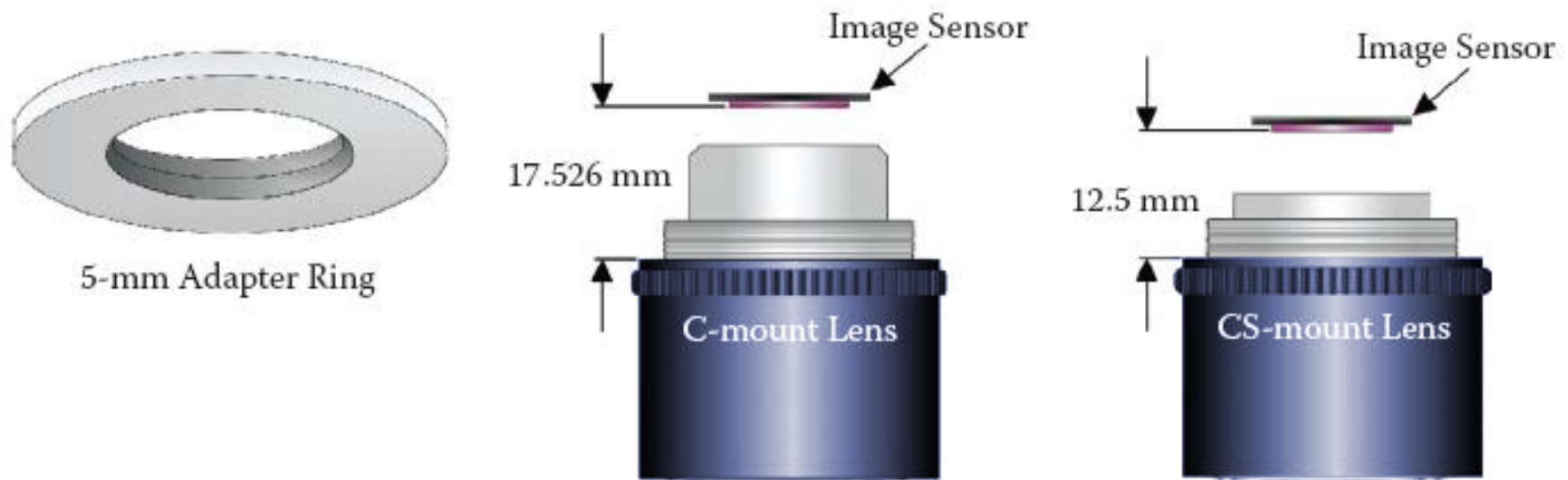
The distance between the sensor and the lens should be 12.5mm

• ❖ C mount

The distance between the sensor and the lens should be 17.526mm

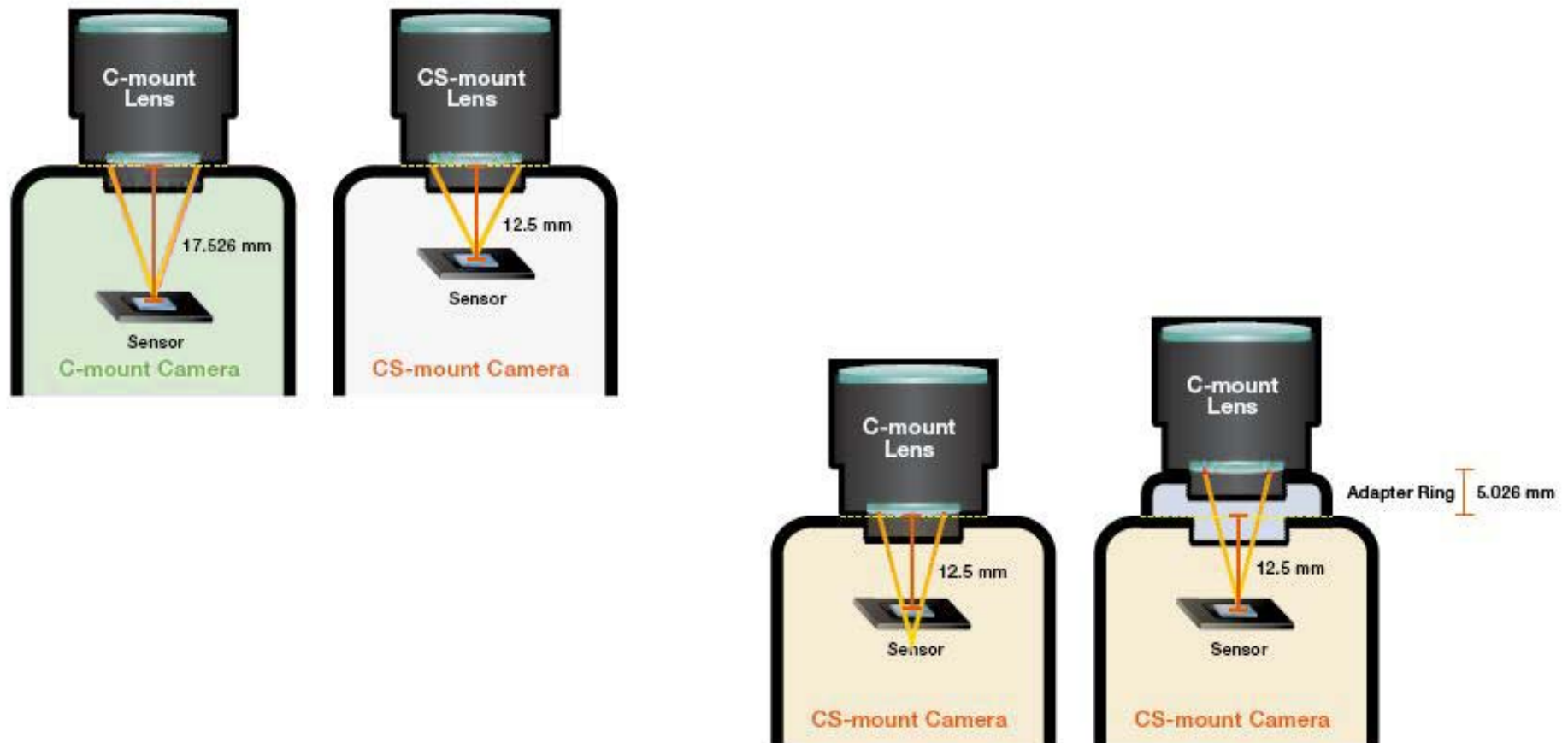
Lens mount standard

CS mount and C mount

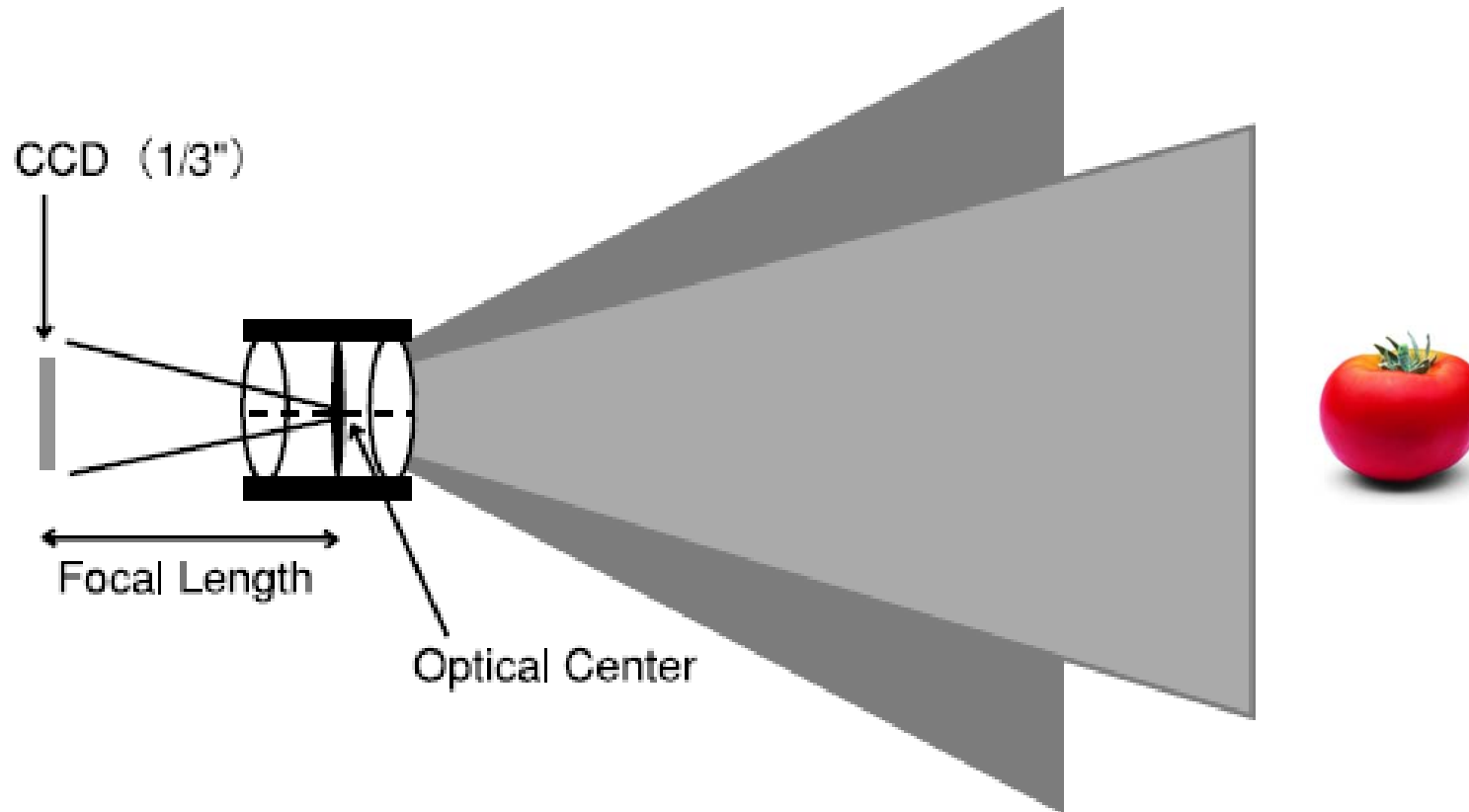


CS mount and C mount

Example



Focal Length



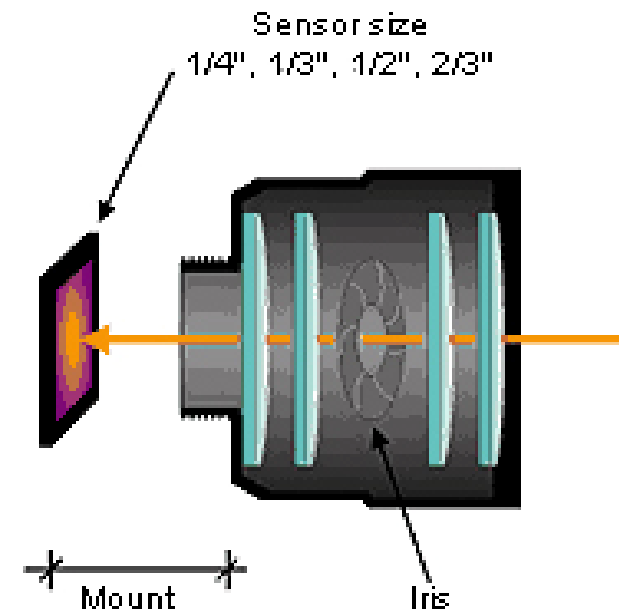
Iris

❖ Iris

Control the amount of light passing through

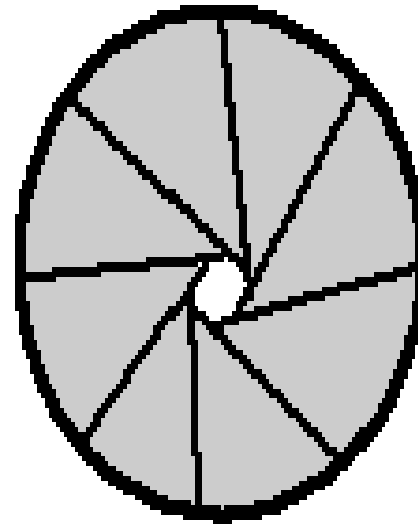
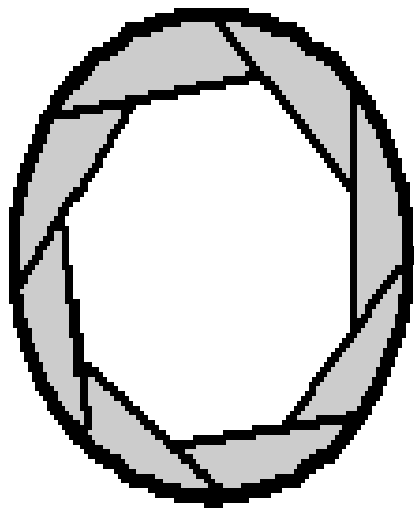
❖ Iris Types

- Manual Iris
- DC Iris



F-Number

- Aperture
- F1.4, F2, F2.8, F4, F5.6, F8, F11, F16, F 22, F32

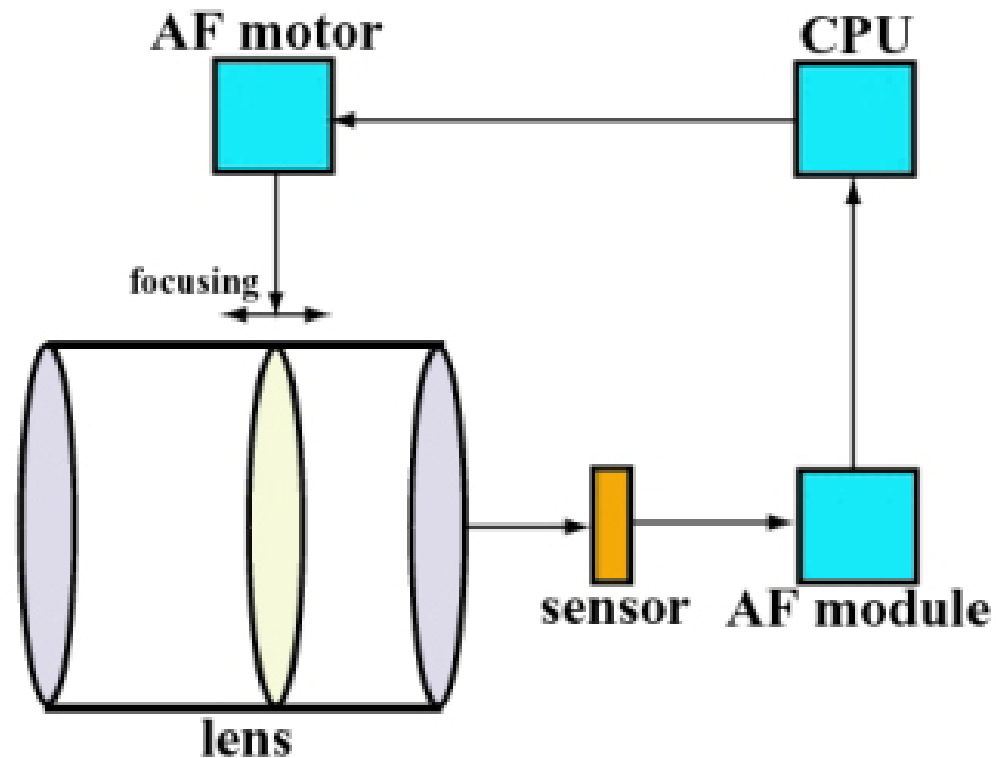


Auto Focus

Autofocus (or **AF**) is a feature of some optical systems that allows them to obtain (and in some systems to also continuously maintain) correct focus on a subject, instead of requiring the operator to adjust focus manually.

Auto Focus

Auto Focus Mechanism



Auto Focus

AF-Contrast Detection Method

1. From these images, initially we (and the AF module) only see a very blurred image with very low contrast
2. As the lens moves to focus, the contrast level of the image increases.
3. When the lens settles on the highest contrast image as shown above, auto focus completes.



← Initial Step

← During the focusing process

← Highest Contrast (Focus)

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Brickcom, your best partner.

Thank You

