

Aperture series

Use a tripod with a stable stand. Illuminate the test chart evenly and align the camera sensor parallel to the test chart. (Check the test setup and basic settings using our checklist.)

- Select **one focal length** and maintain it for the measurement series.
- Set **JPEG highest quality** as recording format.
- Switch to **manual exposure mode - M**.
- For the exposure metering, select **multi field** (or matrix metering).
- Set the **basic sensitivity** (such as ISO 100).
- Deactivate** the **flash**.
- Ensure correct white balance through either **automatic white balance** or manual adjustment.
- Reset your settings for color, sharpness, contrast, saturation and other parameters.
- Deactivate image stabilization** of the lens or camera if possible.
- Activate** the **mirror lock-up** if available.
- Begin with an **open aperture**.
- Select a shutter speed** by using the **camera's histogram**.
An appropriate shutter speed is set when the histogram holds all brightness values while the peak lies in the midtones.
- Choose **manual focus mode** for very accurate focusing.
- Use the **Live View Mode** with zoom function to focus on the central Siemens star.
- Use a **self-timer** (at least 5 seconds) or a **remote release**.
- Take photos with different aperture settings. Adjust the shutter speed accordingly.

Sensitivity series

Use a tripod with a stable stand. Illuminate the test chart evenly and align the camera sensor parallel to the test chart. (Check the test setup and basic settings using our checklist.)

- Select **one focal length** and maintain it for the measurement series.
- Set **JPEG highest quality** as recording format.
- Switch to **manual exposure mode - M**.
- Select **multi field** exposure metering (or matrix metering).
- Deactivate the flash**.
- Ensure correct white balance through either **automatic white balance** or manual adjustment.
- Reset your settings for color, sharpness, contrast, saturation and other parameters.
- Deactivate image stabilization** of the lens or camera if possible.
- Activate the mirror lock-up** if available.
- Set aperture to **f/5.6** or if **5.6 is your open aperture close it for at least 1 stop**.
- Select a shutter speed** by using the **camera's histogram**.
An appropriate shutter speed is set when the histogram holds all brightness values while the peak lies in the midtones.
- Choose **manual focus mode** for very accurate focusing.
- Use the **Live View Mode** with zoom function to focus on the central Siemens star.
- Use a **self-timer** (at least 5 seconds) or a **remote release**.
- Take photos with different sensitivity settings. Adjust the shutter speed accordingly.

Focal length series with zoom lenses (i.e. 18-55mm)

Use a tripod with a stable stand. Illuminate the test chart evenly and align the camera sensor parallel to the test chart. (Check the test setup and basic settings using our checklist.)

- With zoom lenses, use at least **three focal lengths to cover the whole zoom range**. Begin with the shortest focal length (i.e. 18mm).
- Set **JPEG highest quality** as recording format.
- Switch to **manual exposure mode - M**.
- Select **multi field** exposure metering (or matrix metering).
- Set the **basic sensitivity** (i.e. ISO 100).
- Deactivate the flash**.
- Ensure correct white balance through either **automatic white balance** or manual adjustment.
- Reset your settings for color, sharpness, contrast, saturation and other parameters.
- Deactivate image stabilization** of the lens or camera if possible.
- Activate the mirror lock-up** if available.
- Set aperture to **f/5.6 or if 5.6 is your open aperture close it for at least 1 stop**.
- Select a shutter speed** by using the **camera's histogram**.
An appropriate shutter speed is set when the histogram holds all brightness values while the peak lies in the midtones.
- Choose **manual focus mode** for very accurate focusing.
- Use the **Live View Mode** with zoom function to focus on the central Siemens star.
- Use a **self-timer** (at least 5 seconds) or a **remote release**.
- Take test photos.
- Change to **medium focal length** and align your camera parallel to the test chart.
- Focus on the central Siemens star. Adjust your shutter speed. Retain the other camera settings and capture an image of the test chart.
- Repeat the process for the maximum focal length (i.e. 55mm).

Auto focus series

Use a tripod with a stable stand. Illuminate the test chart evenly and align the camera sensor parallel to the test chart. (Check the test setup and basic settings using our checklist.)

- Illuminate the test chart brightly and evenly to avoid long shutter speeds.
- Select **one focal length** and maintain it for the measurement series.
- Set **JPEG highest quality** as recording format.
- Switch to **manual exposure mode - M**.
- Select **multi field exposure metering** (or matrix metering).
- Set the **basic sensitivity** (such as ISO 100).
- Deactivate the flash**.
- Use **automatic white balance** or set it manually.
- Reset your settings for color, sharpness, contrast, saturation and other parameters.
- Deactivate image stabilization** of the lens or camera if possible.
- Activate the mirror lock-up** if available.
- Select an **open aperture**.
- Select a shutter speed** by using the **camera's histogram**.
An appropriate shutter speed is set when the histogram holds all brightness values while the peak lies in the midtones.
- Change to **autofocus mode** and select a suitable autofocus field within the image center.
- Use a **self-timer** (at least 5 seconds) or a **remote release**.
- Reset the focus to infinity after every single shot.
- Take at least 10 pictures to acquire a good result for the autofocus accuracy.