



CHAPTER 10 - METERING

METERING DESCRIBES THE PROCESS OF HOW YOUR CAMERA DECIDES TO ASSIGN THE RIGHT SHUTTER SPEED AND APERTURE BASED ON THE AMOUNT OF LIGHT THE CAMERA CAN PICK UP. TO PUT IT SIMPLY, METERING IS A WAY FOR MODERN CAMERAS TO REFLECT LIGHT AND DETERMINE THE RIGHT EXPOSURE WITHOUT USING AN ACCESSORY METER.

- ▶ Different camera manufacturers use different terms for their metering modes.



CANON CAMERAS



- ▶ Evaluative Metering
- ▶ Centre Weighted Metering
- ▶ Spot Metering
- ▶ Partial Metering

NIKON CAMERAS



- ▶ Matrix Metering
- ▶ Centre Weighted Metering
- ▶ Spot Metering
- ▶ Highlight-Weighted Metering

SONY CAMERAS



- ▶ Multi-Pattern Metering
- ▶ Centre-Weighted Metering
- ▶ Spot Metering
- ▶ Highlight-Weighted Metering
- ▶ Entire Screen Avg Metering

HASSELBLAD CAMERAS



- ▶ Centre-Weighted Metering
- ▶ Centre Spot Metering
- ▶ Spot Metering

METERING MODES



Spot
Metering



Center-
weighted
Average
Metering



Partial
Metering

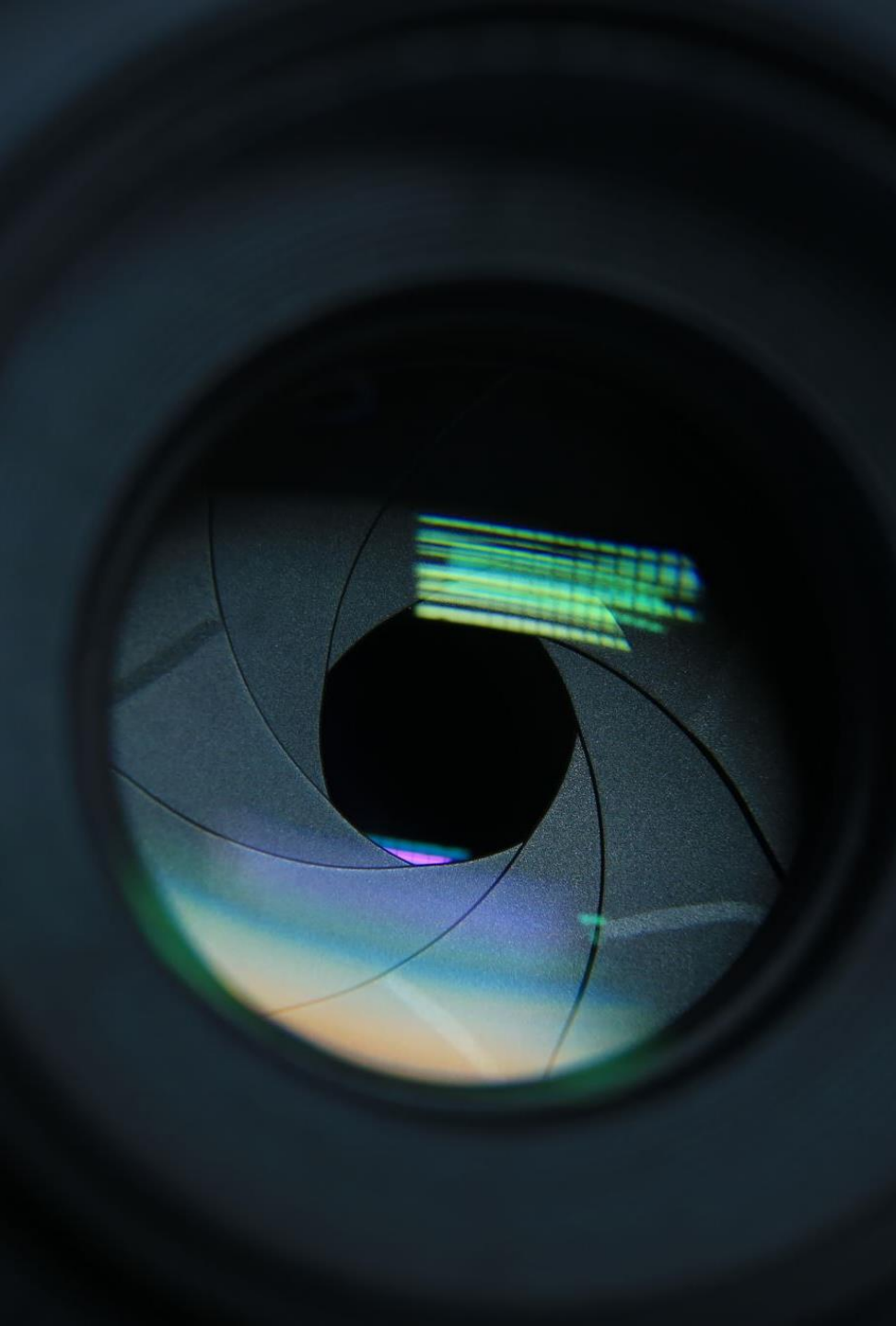


Evaluative/
Matrix
Metering



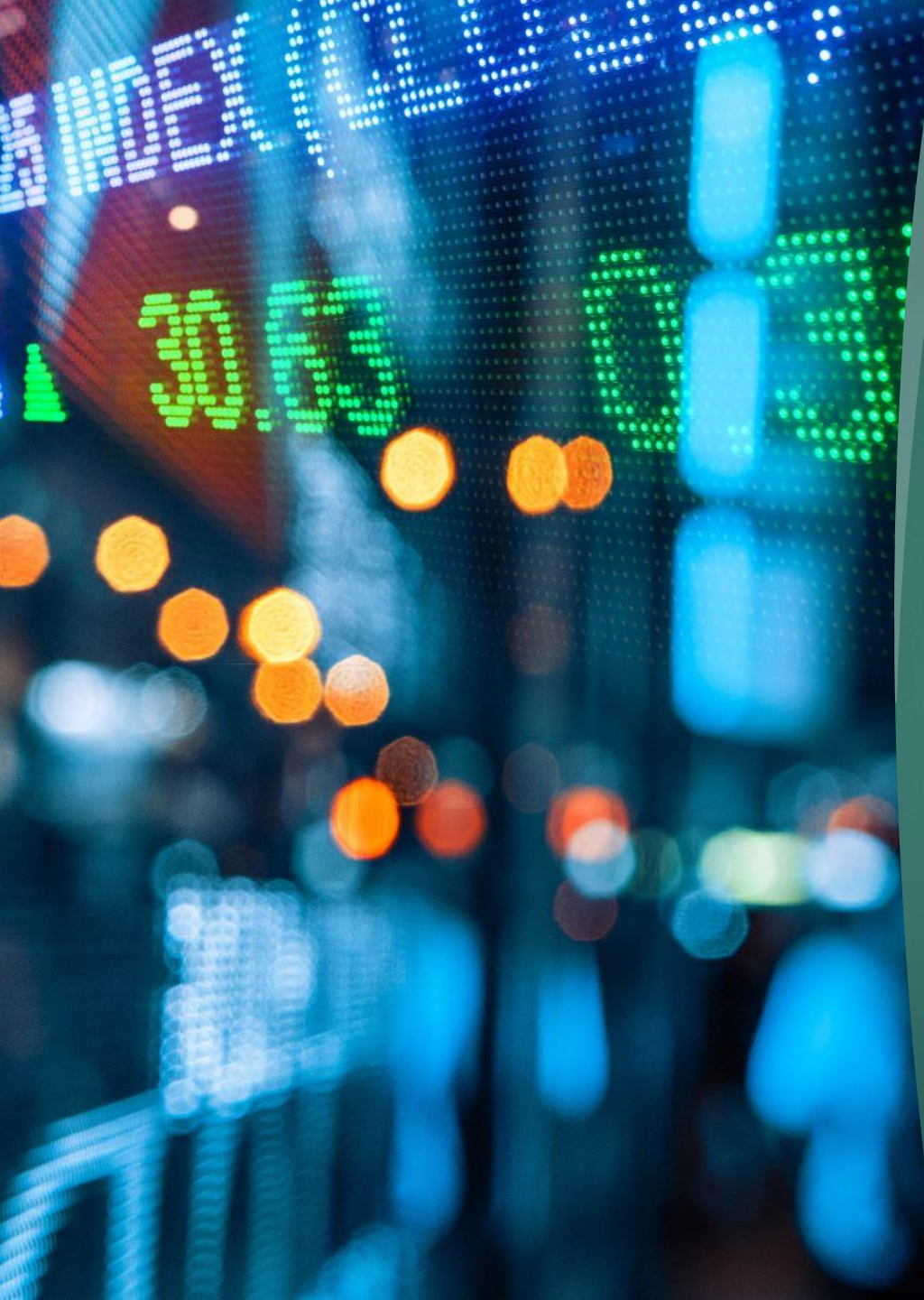
What is the problem with metering in photography?

- ▶ The metering system looks for areas of bright and dark so that they can average these out as a mid-tone. So, if you fill the frame with white or light subjects, the camera will still try to create a mid-tone, and your photograph will end up looking grey.



How do you use spot metering in photography?

- ▶ Set your camera to spot metering. The camera will then read light only from a small spot in the centre of the frame. If you put this spot on the part of the image you want to expose correctly the camera will read the light from there.



How do you use centre-weighted metering in photography?

- ▶ Centre-weighted average metering concentrates the metering on the central part of the viewfinder but also takes the rest of the frame into consideration. This mode is favorable when you want to capture a well-balanced exposure, but biased towards whatever is right in the middle of the shot.



How do you use partial metering in photography?

- ▶ Partial metering covers only the centre 6.2% of the frame in the viewfinder, thus providing precise metering only for the subject. When the background is brighter than the subject due to reasons like back lighting, this metering mode is particularly useful. It is useful for back-lit shots or tiny subjects.



How do you use evaluative metering in photography?

- ▶ Evaluative metering is the default metering mode on most cameras. It ensures that the camera will automatically adjust to the right exposure setting even when the ambient lighting shows greater contrast.