# Diploma in Photography Capture Pictures Perfectly

Lesson 2 Camera Functions & Lenses





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The Team

### About Us

### Lesson 2

AGENDA

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Course Agenda

Lens Types

Summary

Q & A

**Camera functions** 

**Course Interaction** 

How the camera see's vs human vision

### Why learn about camera functions?

- Lack of understanding of technical capabilities
- Lack of confidence in skills and knowledge
- Inability to fulfil creative vision



### Why learn about camera functions?

- Understanding the capabilities of the equipment we are using
- Confidence to select the right lenses to match our vision for the image
- Develop our Visual Awareness skills by understanding all the different views you can have of one scene by using different lenses

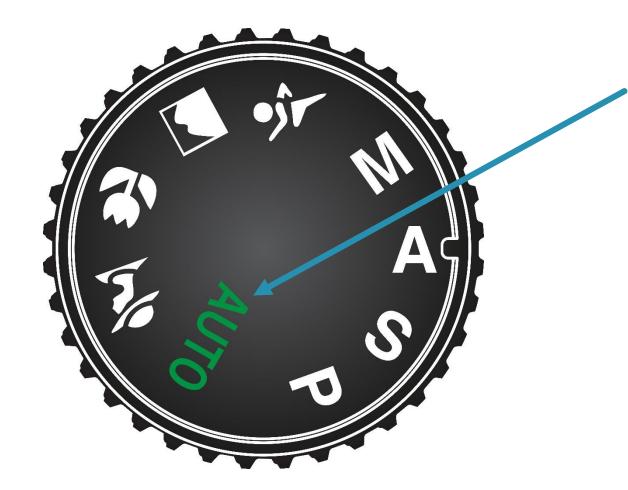




## **Camera Functions**

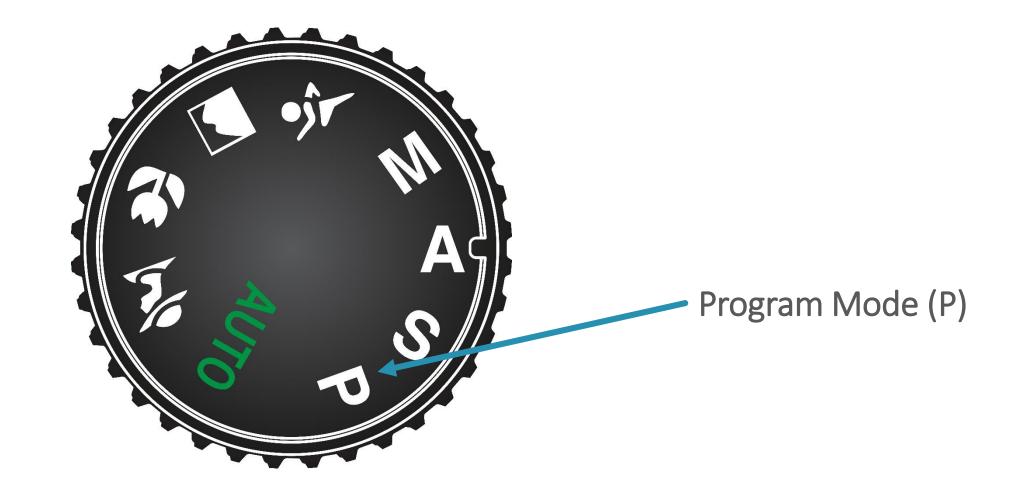


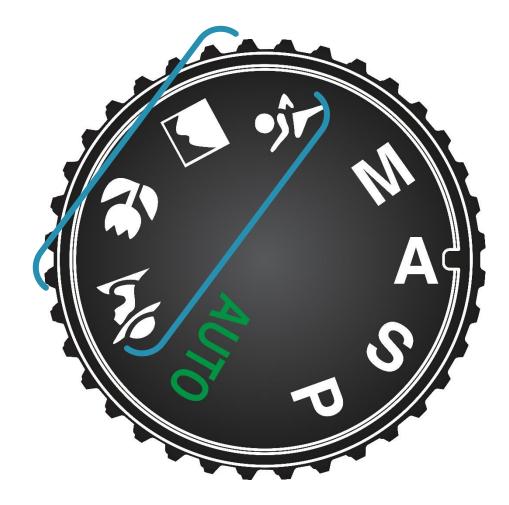


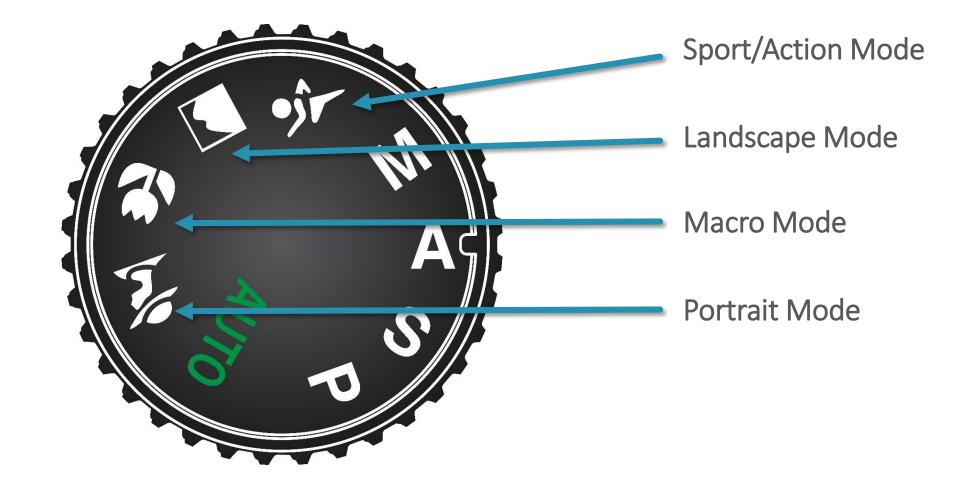


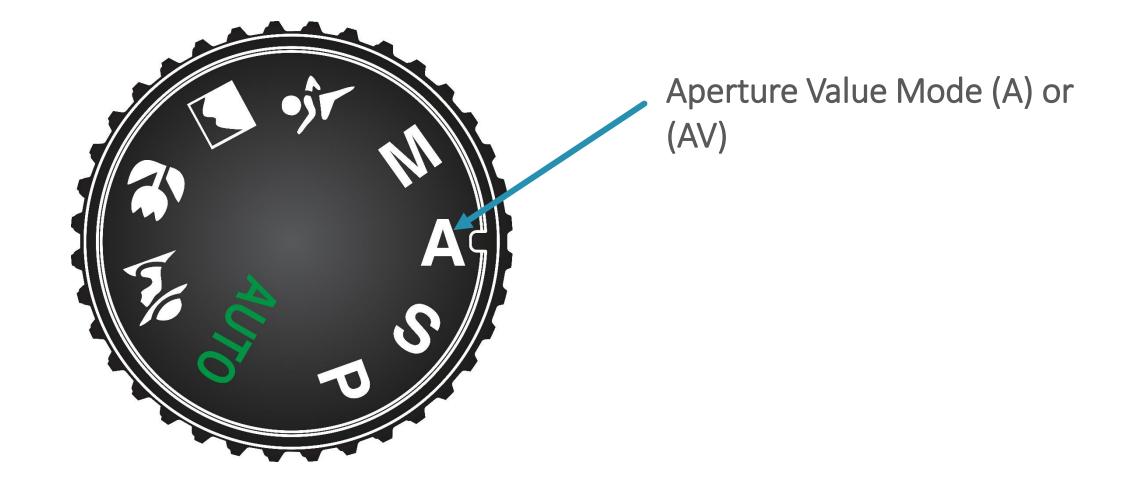
### Automatic Mode

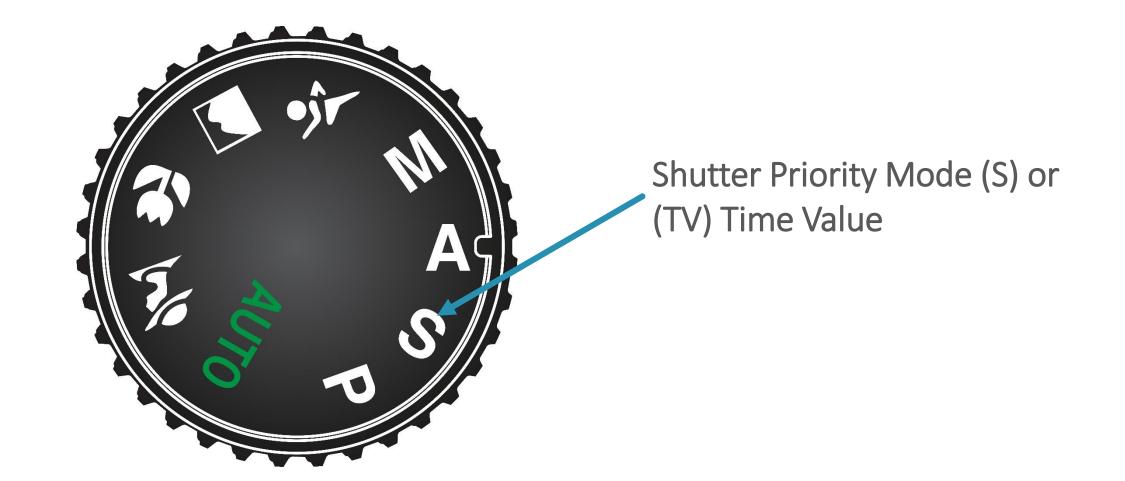


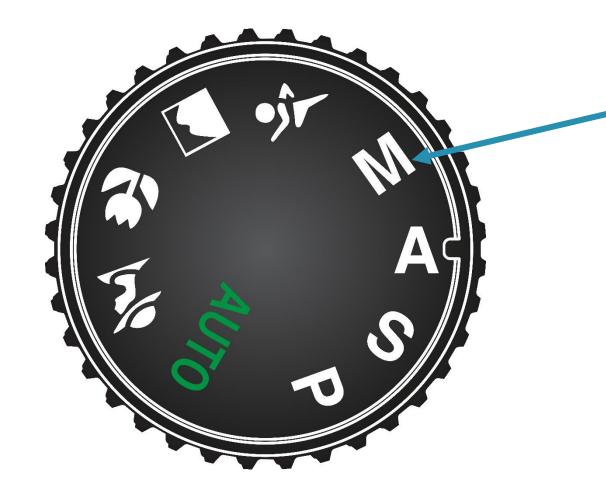












Manual Mode (M)



## Lens Types





Zoom Lenses



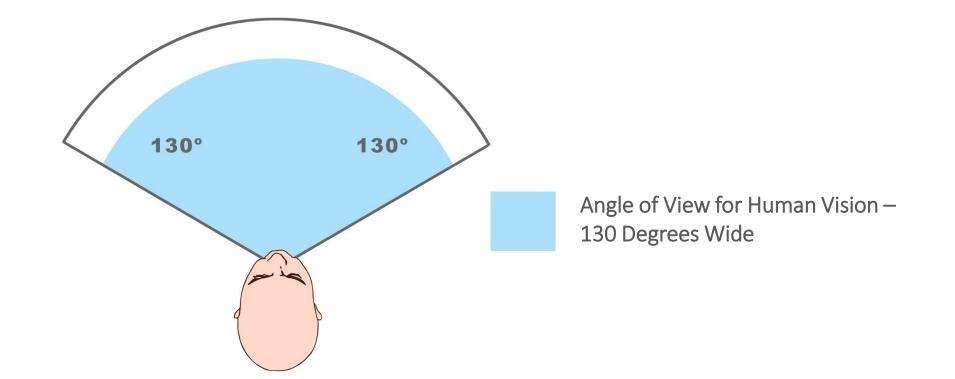
## Prime/Fixed Lenses

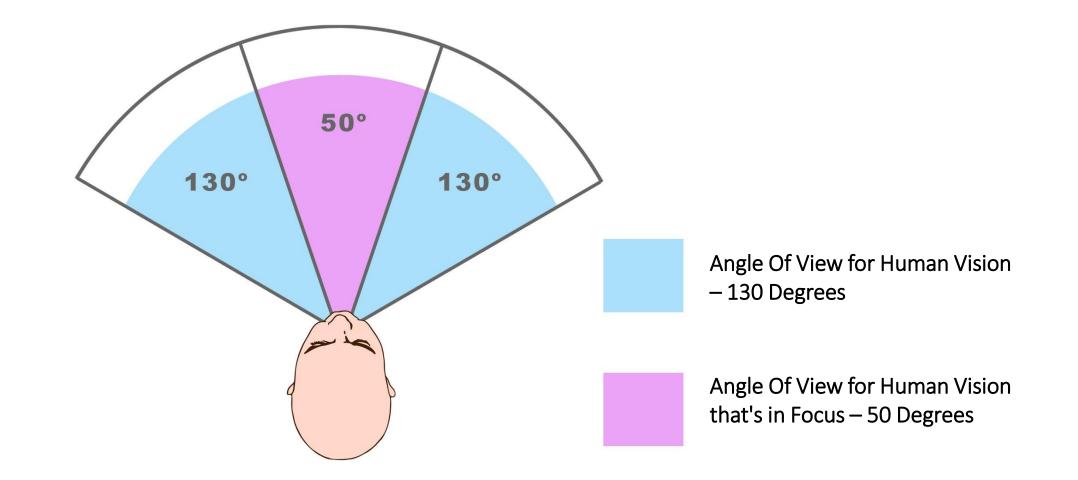


### Lens Types



### Lens Components

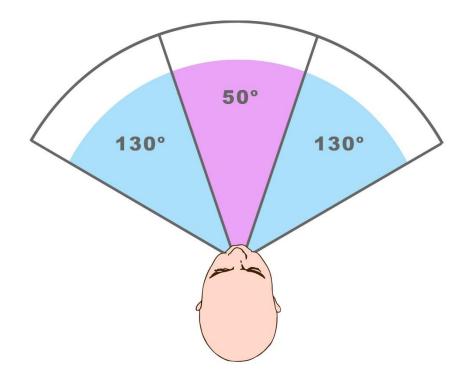












## Standard/Normal Lens



## 50mm Focal Length - Standard/Normal Lens



50mm view within human vision angle of view



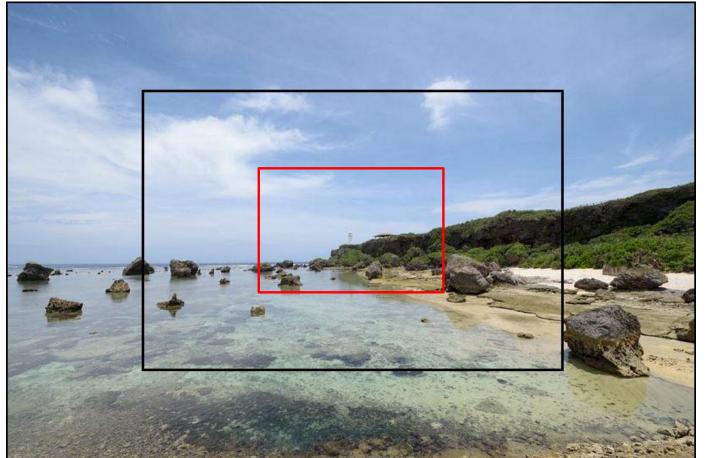
#### Actual image shot with 50mm Standard Lens

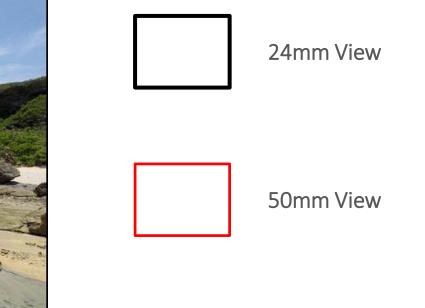
### 50mm Focal Length - Standard/Normal Lens



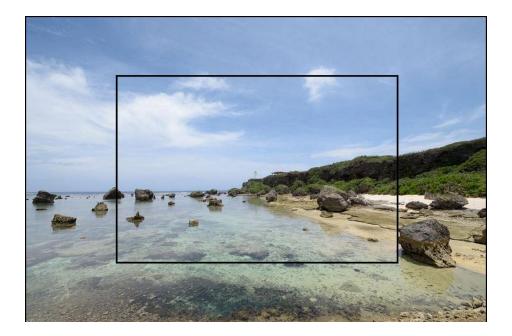
- Field of view wider than the angle of focused human vision or standard lenses (50mm)
- Lenses with a focal length between 24
  50mm
- Angle of view between 50 and 83 degrees wide

### Wide Angle Lens





## 24mm Focal Length – Wide Angle Lens



24mm view within human vision angle of view



#### Actual image shot with 24mm Wide Angle Lens

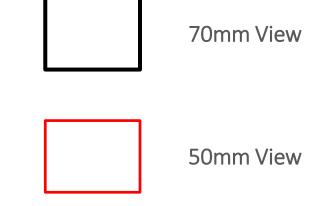
## 24mm Focal Length – Wide Angle Lens



- Field of view narrower than the angle of focused human vision or standard lenses (50mm)
- Lenses with a focal length can be from 50mm up to 1000mm and even beyond
- Angle of view between 50 and 2.5 degrees wide

### Telephoto Lens



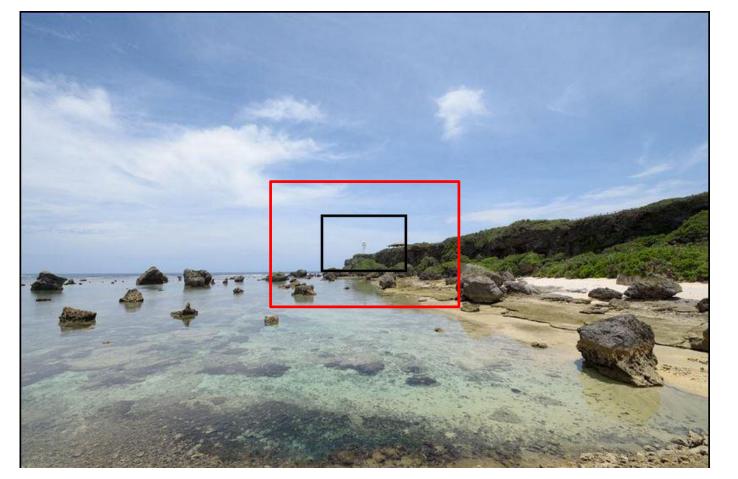


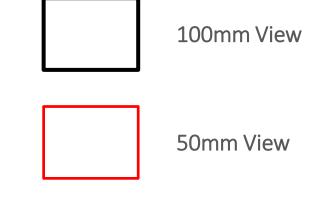


70mm view within human vision angle of view



#### Actual image shot with 70mm Telephoto Angle Lens





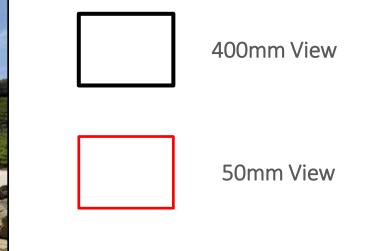


100mm lens view within human vision angle of view



Actual image shot with 100mm Telephoto Lens







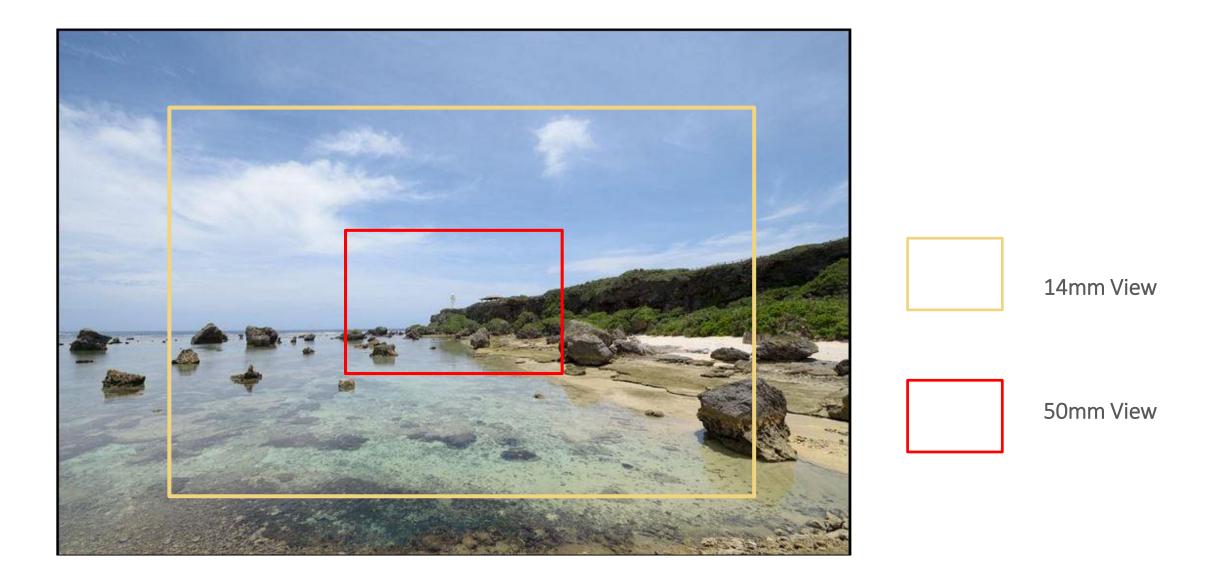
400mm lens view within human vision angle of view



#### Actual image shot with 400mm Telephoto Lens



## Super Wide Angle Lens



## Super Wide Angle Lens



14mm lens view within human vision angle of view



#### Actual image shot with 14mm Wide Angle Lens

### 14mm Super Wide Angle Lens







14 mm

24 mm

50 mm







70 mm

100 mm

400 mm

### Summary

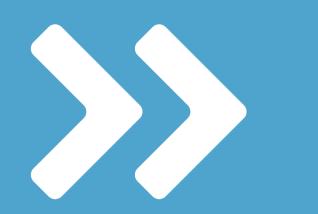
- Building confidence in your technical knowledge by understanding common camera functions
- Development of your visual awareness by looking at Human vision vs camera view
- Expansion of your technical knowledge base and broadening of creative potential
- ✓ Extending your vocabulary around photography

Congratulations you have just completed Lesson 2

Attend all of the lessons live to ask Questions in real time and benefit the most

We're here to help, so contact us anytime! photography@shawacademy.com





# Your Next Lesson

### Lesson 3

- The next session is "Motion and Depth"
- Shutter Speeds
- Apertures
- AV mode and TV Mode
- Attend all of the lessons LIVE and your knowledge will grow