

## Why Take Control?

- > Gives you more control over your images
- > Allows you to decide what's in focus in your images
- Enables you to choose the appropriate settings to create blurred backgrounds, detailed landscape photographs or capture movement
- > Enables you to be more creative.

### **Don't Forget the Basics**

Framing

- Always fill the frame with your subject
- ► Use elements of the scene to create a frame within a frame ...

Portrait or Landscape?

- Which orientation will give the most impact? ...
- Rule of Thirds (Golden Mean)
- Divide the frame into thirds, both horizontally and vertically
- Placing elements of a scene in/on any of the thirds can add tension and a dramatic feel to your image \_

#### Basics

Leading Lines

 $\blacktriangleright$  Use natural lines or shapes in the foreground to lead the eye into and around the picture  $\underline{\mbox{\tiny m}}$ 

#### **View Point**

- $\blacktriangleright$  Picking out a small part of a scene can be more interesting than just framing the whole  $\underline{\mbox{\tiny m}}$
- Think about kneeling or lie down to change the view point \_

### Eliminate Camera Shake

To help prevent camera shake:

- Hold the camera correctly
- Don't rush the shutter button
- Rest the camera on a natural support e.g. the top of a fence, table top etc
- Use a camera support such as a tripod, monopod, bean bag etc
- Use a remote shutter release or timer delay ...

# Taking Control

There are only three controls which affect how an image is capture:

- Shutter Speed (Tv) measured in fractions of a second or even seconds
- Aperture value (Av) f/stops determine the size of the hole in the lens
- Sensitivity of the sensor the ISO value determines it's sensitivity. The higher the ISO the more sensitive it becomes <u>but</u> as the value increases, the picture quality worsens. IN

#### White Balance

- This fourth control also affects the final image, but it takes place during the processing of the data collected by the sensor
- > It refers to the colour temperature of different types of light
- Set this control depending on the type of lighting conditions you are working in
- If in doubt or in mixed lighting leave on AWB

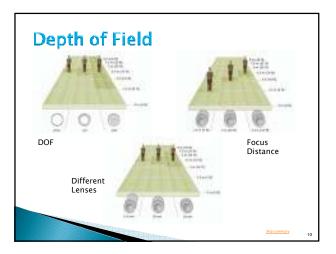
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## Shutter Speed Priority - Tv

- Used to manually set the Shutter Speed
- Fast shutter speeds (1/500<sup>th</sup> or 1/200<sup>th</sup>) can freeze movement like waterfalls, sports action or wildlife ...
- At slow speeds such as 1/60<sup>th</sup> or 1/30<sup>th</sup> movement will become blurred and camera shake is more likely ...
- A rough guide to freeze movement and prevent shake - the shutter speed should be the reciprocal of the focal length lense e.g.
- 100 mm lens set speed to at least  $1/100^{th}$
- 300 mm lens set speed to at least 1/300th

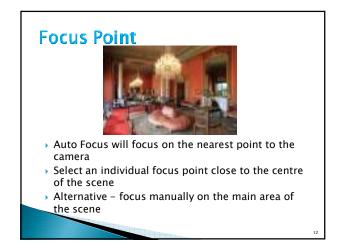
#### **Aperture Priority – Av**

- Use to manually set the Aperture
- > The smaller the f/stop the larger the hole
- So f/8 will let in twice as much light as f/11 ...
   Smaller the aperture more of the picture will
- be in focus. For landscapes and long rooms use at least f/11 or f/16, possibly f/22 \_\_\_
  To create a blurred background for an object
- or portrait choose a large aperture (i.e. smaller  $f/stop)_{a}$
- The amount of the image which is in focus is called The Depth of Field (DOF)



## Depth of Field

- A wide aperture gives a shallow DOF
- A small aperture will give deep DOF
- A telephoto or a lens at the end of it's zoom range give shallow DOF
- A shorter or wide-angle lens give a deep DOF
- > Point of focus affects the DOF



#### Applying the theory – Av Mode

- Select the Av Mode
- Compose the picture
- Decide how much of the picture needs to be in focus
- Set the Aperture
   Remember Small f/stop = small DOF Large f/stop =
   larger DOF
- Make sure the shutter speed is fast enough to prevent "shake"
- If not adjust the ISO and/or the Aperture
- Check focus point
- Take the picture

### **Further Techniques**

- Use mirror lock up
- > Use the Histogram to check and adjust exposure
- Use Auto Exposure adjustment
- Use Auto Exposure Bracketing (AEB)
- Use different picture styles
- Developing your digital processing techniques to improve the output of your images \_\_\_\_\_







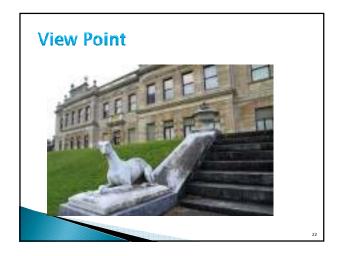


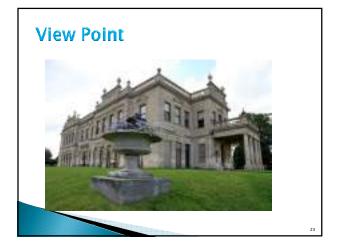
Leading Lines





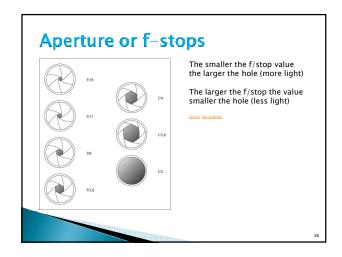












# **Aperture Value and fstops**

 Standard full-stop F-number scale

 Including apenture value AV:

 AV
 -2
 -1
 0
 1
 2
 3
 4
 5
 6
 7
 8
 9
 10
 11
 12
 13
 14

 ##
 0.5
 0.7
 1.0
 1.4
 2
 8.4
 5.6
 8
 11
 16
 22
 32
 4.5
 6.4
 9
 10
 11
 12
 13
 14

*f*/# 0.5 0.7 1.0 1.4 2 2.8 4 5.6 8 11 16 22 32 45 64 90 128 Typical one-half-stop f-number scale

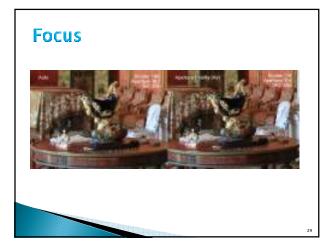
f/# 1.0 1.2 1.4 1.7 2 2.4 2.8 3.3 4 4.8 5.6 6.7 8 9.5 11 13 16 19 22

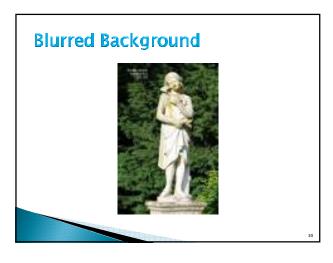
Typical one-third-stop f-number scale

*f#* 1.0 1.1 1.2 1.4 1.6 1.8 2 2.2 2.5 2.8 3.2 3.5 4 4.5 5.0 5.6 6.3 7.1 8 9 10 11 13 14 16 18 20 22

(AV priority)















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