

Diploma in Photography

Capture Pictures Perfectly

Lesson 6
Manual Mode



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15+ Years Experience



The Team

About Us

Lesson 8

AGENDA



- Course Agenda
- What is Manual Mode
- Relationship of Shutter Speeds
- Relationships of Apertures
- Process of Shooting in Manual
- Light Metering In Manual Mode
- Adjusting Shutter Speeds and Apertures in Manual Mode
- ISO
- Summary
- Q & A



Why Master Manual Mode?



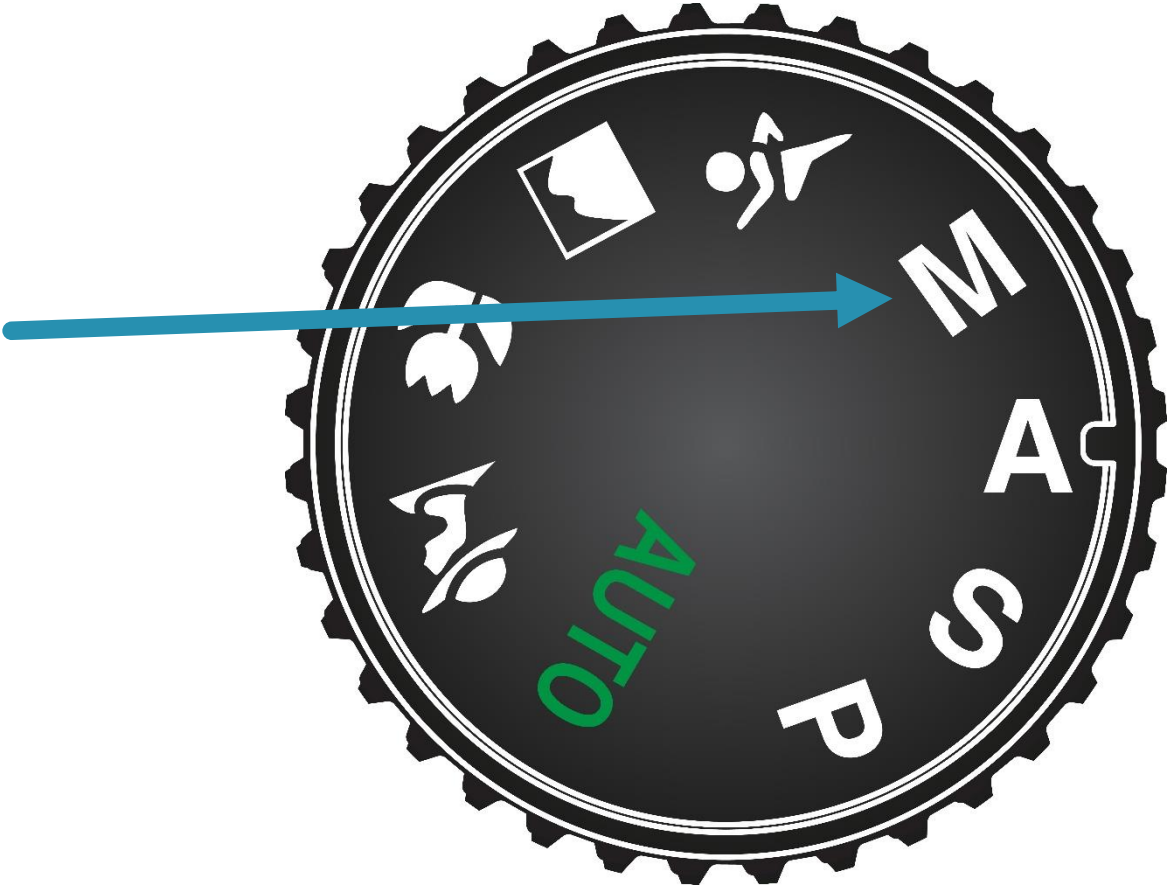
Why Master Manual Mode?



Why Master Manual Mode?



Fully Manual Mode (M)





Manual Mode

Manual Mode



- ▶ A stop in photography refers to a measure of light
- ▶ A stop is a doubling or halving of the amount of light in your scene
- ▶ Any time you Double the amount of light getting to the cameras sensor you are Increasing the light by 1 Stop.
- ▶ Any time you Half the amount of light getting to the cameras sensor you are Decreasing the light by 1 Stop.



1/4 - 1/8 - 1/15 - 1/30 - 1/60 - 1/125 - 1/250 - 1/500 - 1/1000 - 1/2000 - 1/4000 - 1/8000

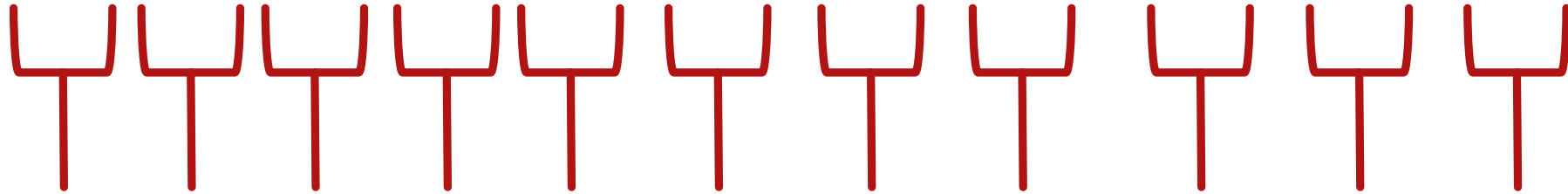




1/250 - 1/500 - 1/1000



1/4 - 1/8 - 1/15 - 1/30 - 1/60 - 1/125 - 1/250 - 1/500 - 1/1000 - 1/2000 - 1/4000 - 1/8000



Each Shutter Speed is 1 Stop apart



1/500s

-2..1..0..+1..+2
|

Correct Exposure

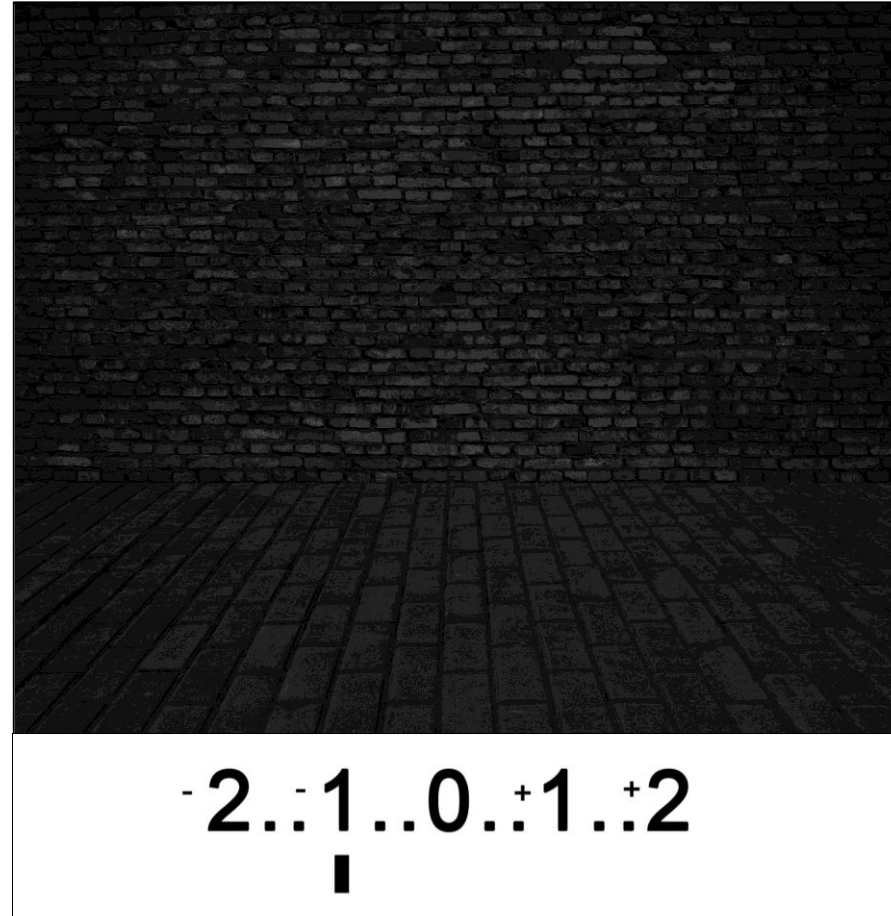
1/4 - 1/8 - 1/15 - 1/30 - 1/60 - 1/125 - 1/250 - 1/500 - 1/1000 - 1/2000 - 1/4000 - 1/8000



1/250s

+1 Stop Exposure

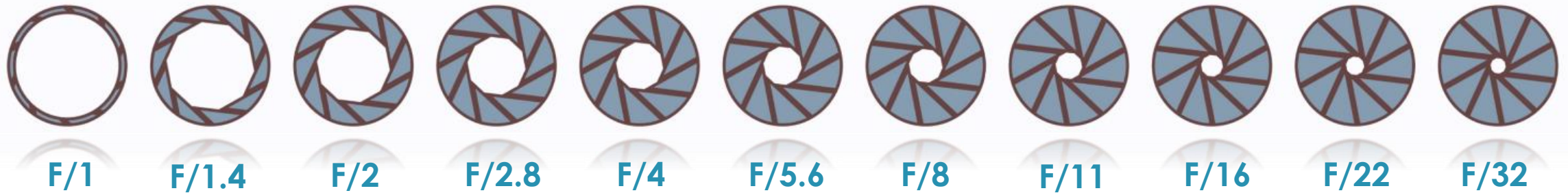
1/4 - 1/8 - 1/15 - 1/30 - 1/60 - 1/125 - 1/250 - 1/500 - 1/1000 - 1/2000 - 1/4000 - 1/8000



1/1000s

-1 Stop Exposure

- ▶ **Apertures are expressed as F. Numbers or F Stops**
- ▶ **Each lens will have a certain range of standard aperture sizes**



↑ ↑
Twice the size

Common Apertures/F Stops

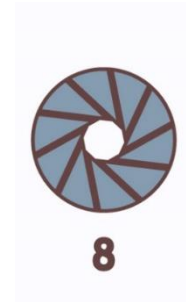


Light is increased by double / 1 Stop

Light is reduced by half / 1 Stop



-2..1..0..+1..+2
|



Correct Exposure

F. Stops: F/2 F/2.8 F/4 F/5.6 F/8 F/11 F/16 F/22 F/32



-2..1..0..+1..+2
|



+2 Stop Exposure

F. Stops:

F/2

F/2.8

F/4

F/5.6

F/8

F/11

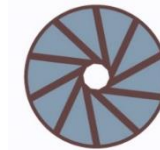
F/16

F/22

F/32



-2..1..0..+1..+2
|



16

- 2 Stop Exposure

- ▶ **Step 1** – Do a meter reading
- ▶ **Step 2** - Analyse your meter reading to determine how much more or less light you need to expose the scene correctly
- ▶ **Step 3** - Manually select a shutter and aperture combination to get the correct amount of light into camera
- ▶ **Step 4** – Capture that amazing shot!

Meter Reading in Manual Mode





-2..1..0..1..2
|

-2 Stops

-2..1..0..1..2
|

-1 Stop

-2..1..0..1..2
|

Correct Exposure

-2..1..0..1..2
|

+1 Stop

-2..1..0..1..2
|

+2 Stops

Metering in Manual Mode

-2..1..0..1..2
|

-2 Stops

-2..1..0..1..2
|

-1 Stop

-2..1..0..1..2
|

Correct Exposure

-2..1..0..1..2
|

+1 Stop

-2..1..0..1..2
|

+2 Stops

Shutter Speeds: 1/4 - 1/8 - 1/15 - 1/30 - 1/60 - 1/125 - 1/250 - 1/500 - 1/1000 - 1/2000 - 1/4000 - 1/8000



Current Shutter Speed and Aperture :

250/s F.22

Current Light Meter Reading

-2..1..0..1..2
|

Adjusting Shutter Speed

Shutter Speeds: 1/4 - 1/8 - 1/15 - 1/30 - 1/60 - 1/125 - 1/250 - 1/500 - 1/1000 - 1/2000 - 1/4000 - 1/8000



New Shutter Speed and Aperture :

125/s F.22

New Light Meter Reading

-2.1 0.1 2
|

Adjusting Shutter Speed

Shutter Speeds: 1/4 - 1/8 - 1/15 - 1/30 - 1/60 - 1/125 - 1/250 - 1/500 - 1/1000 - 1/2000 - 1/4000 - 1/8000



Current Shutter Speed and Aperture :

15/s F.16

Current Light Meter Reading

-2..1..0..+1..+2
|

Adjusting Shutter Speed

Shutter Speeds: 1/4 - 1/8 - 1/15 - 1/30 - 1/60 - 1/125 - 1/250 - 1/500 - 1/1000 - 1/2000 - 1/4000 - 1/8000



New Shutter Speed and Aperture :

60/s F.16

New Light Meter Reading

-2.1 0.1 2

Adjusting Shutter Speed

F. Stops:

F/2

F/2.8

F/4

F/5.6

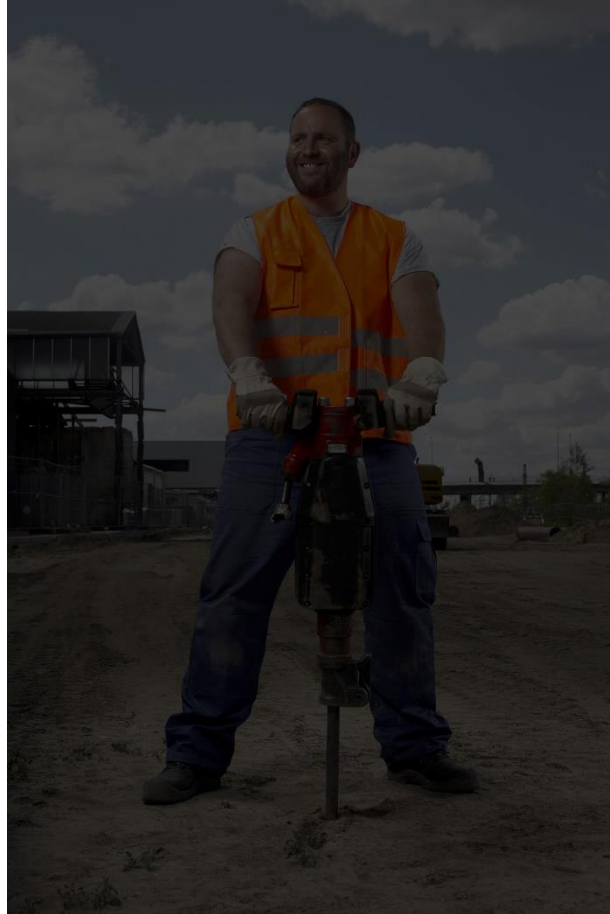
F/8

F/11

F/16

F/22

F/32



Current Shutter Speed and Aperture :

125/s F.16

Current Light Meter Reading

-2..1..0..1..2
I

F. Stops:

F/2

F/2.8

F/4

F/5.6

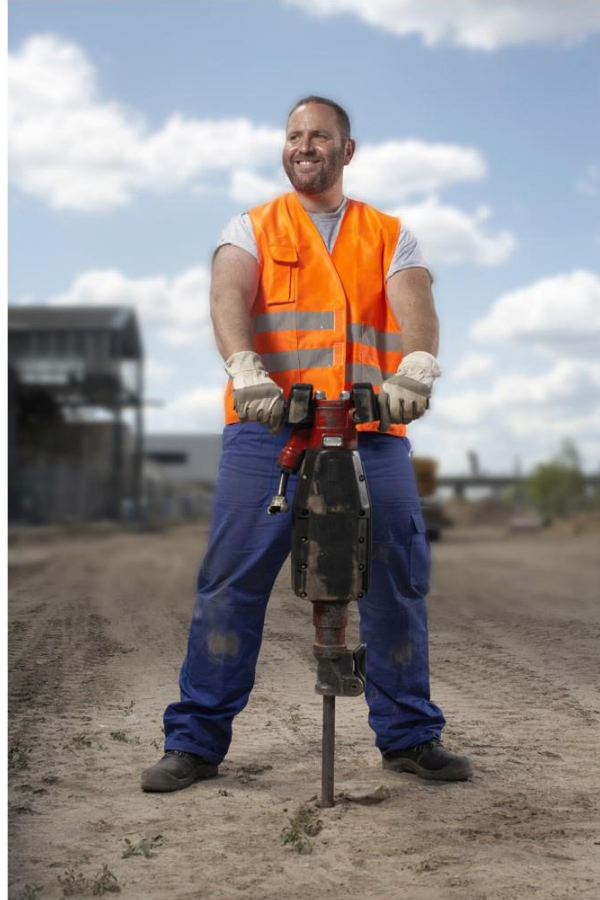
F/8

F/11

F/16

F/22

F/32



New Shutter Speed and Aperture :

125/s F.8

New Light Meter Reading

-2.:1..0.:1.:2
|

F. Stops:

F/2

F/2.8

F/4

F/5.6

F/8

F/11

F/16

F/22

F/32



Current Shutter Speed and Aperture :

125/s

F2.8

Current Light Meter Reading

-2.1..0.:1.:2
|

F. Stops:

F/2

F/2.8

F/4

F/5.6

F/8

F/11

F/16

F/22

F/32



New Shutter Speed and Aperture :

125/s

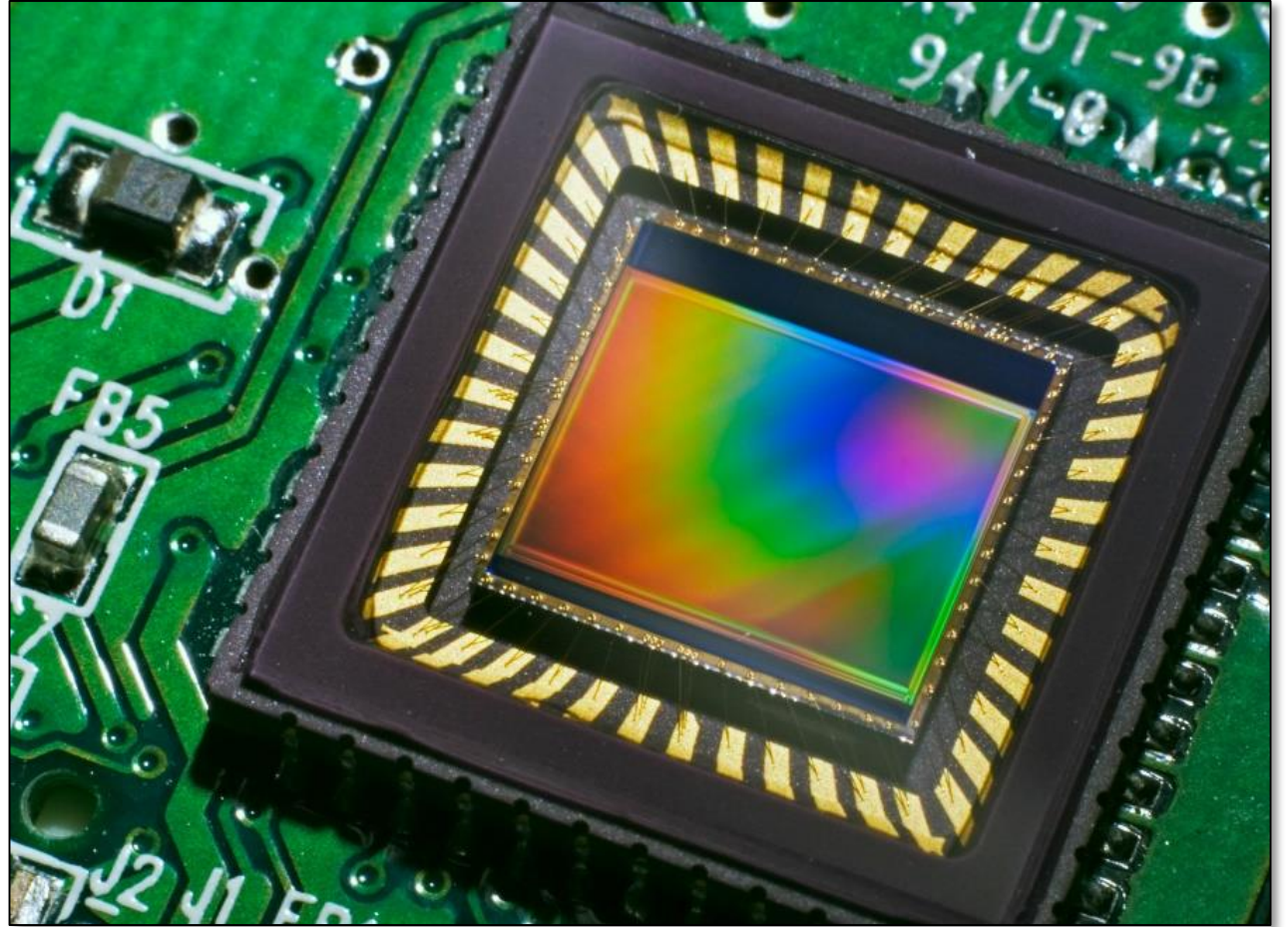
F4

New Light Meter Reading

-2.:1..0.:1.:2
|

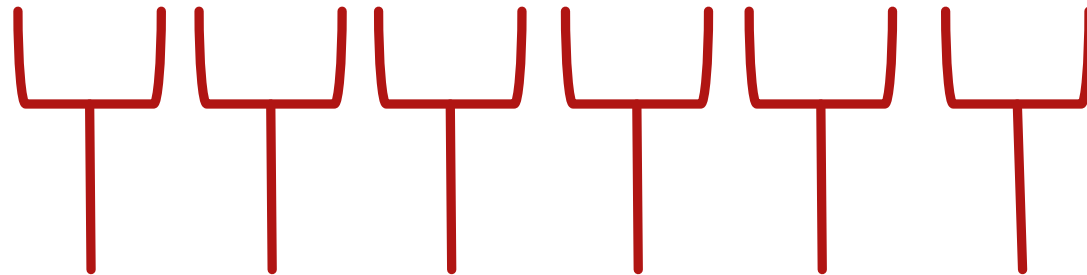
Adjusting Aperture

ISO



Standard ISO Number – 100 – 200 – 400 – 800 - 1600 – 3200 - 6400

100 – 200 – 400 – 800 - 1600 – 3200 - 6400



Each ISO is 1 Stop apart



Current Shutter Speed and Aperture :

500/s F.22

Current Light Meter Reading:

-2..1..0..1..2
|

Current ISO Setting:

100

Standard ISO Number – 100 – 200 – 400 – 800 - 1600 – 3200 - 6400



Current Shutter Speed and Aperture :

500/s F.22

New Light Meter Reading

-2..1..0..1..2
|

New ISO Setting:

200

Standard ISO Number – 100 – 200 – 400 – 800 - 1600 – 3200 - 6400



Current Shutter Speed and Aperture :

125/s F2.8

Current Light Meter Reading:

2.1.0.1.2
1

Current ISO Setting:

200

Standard ISO Number – 100 – 200 – 400 – 800 - 1600 – 3200 - 6400



Current Shutter Speed and Aperture :

125/s F2.8

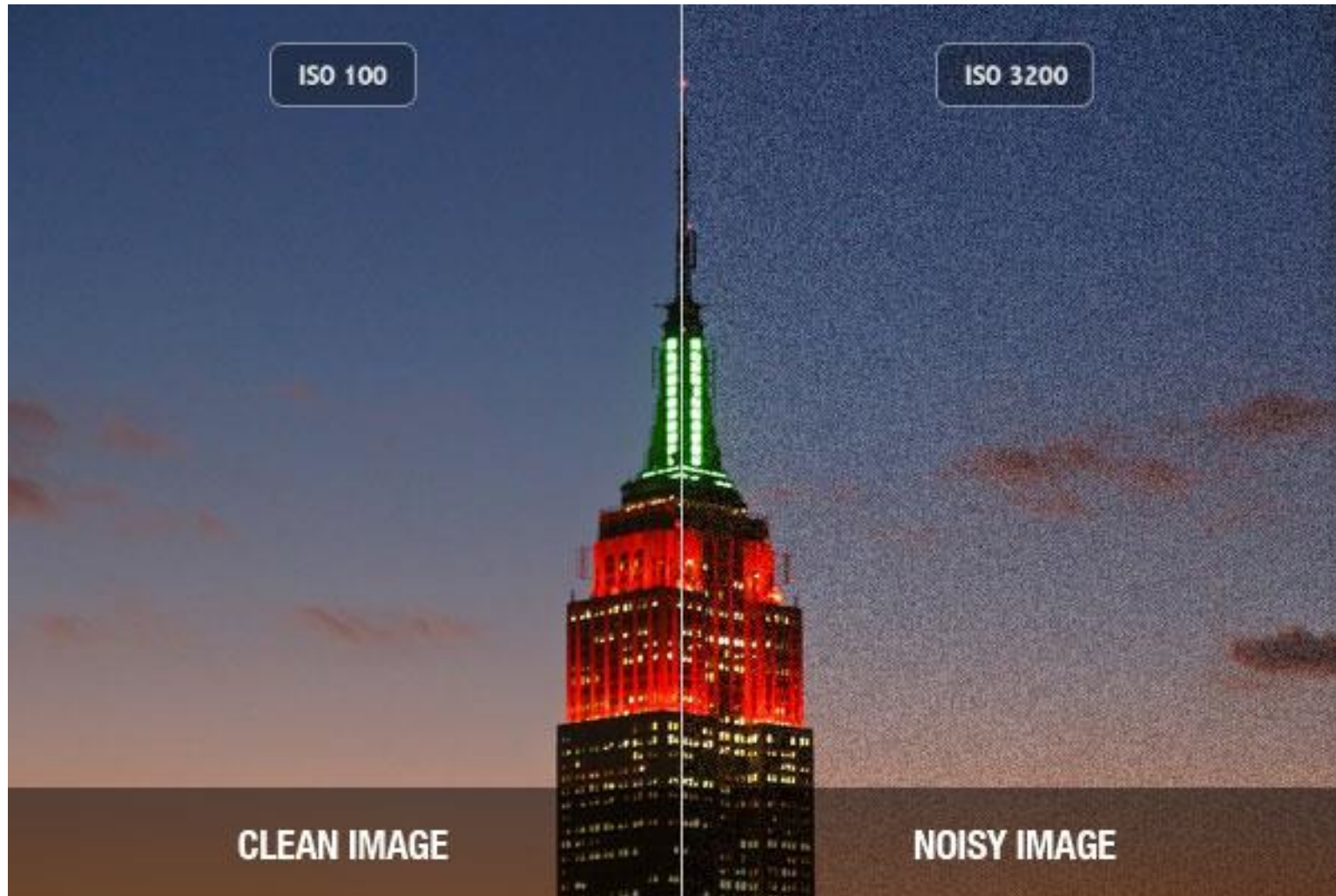
New Light Meter Reading

-2..1..0..1..2
|

New ISO Setting:

800

Standard ISO Number – 100 – 200 – 400 – 800 - 1600 – 3200 - 6400



ISO – NOISE



ISO 100

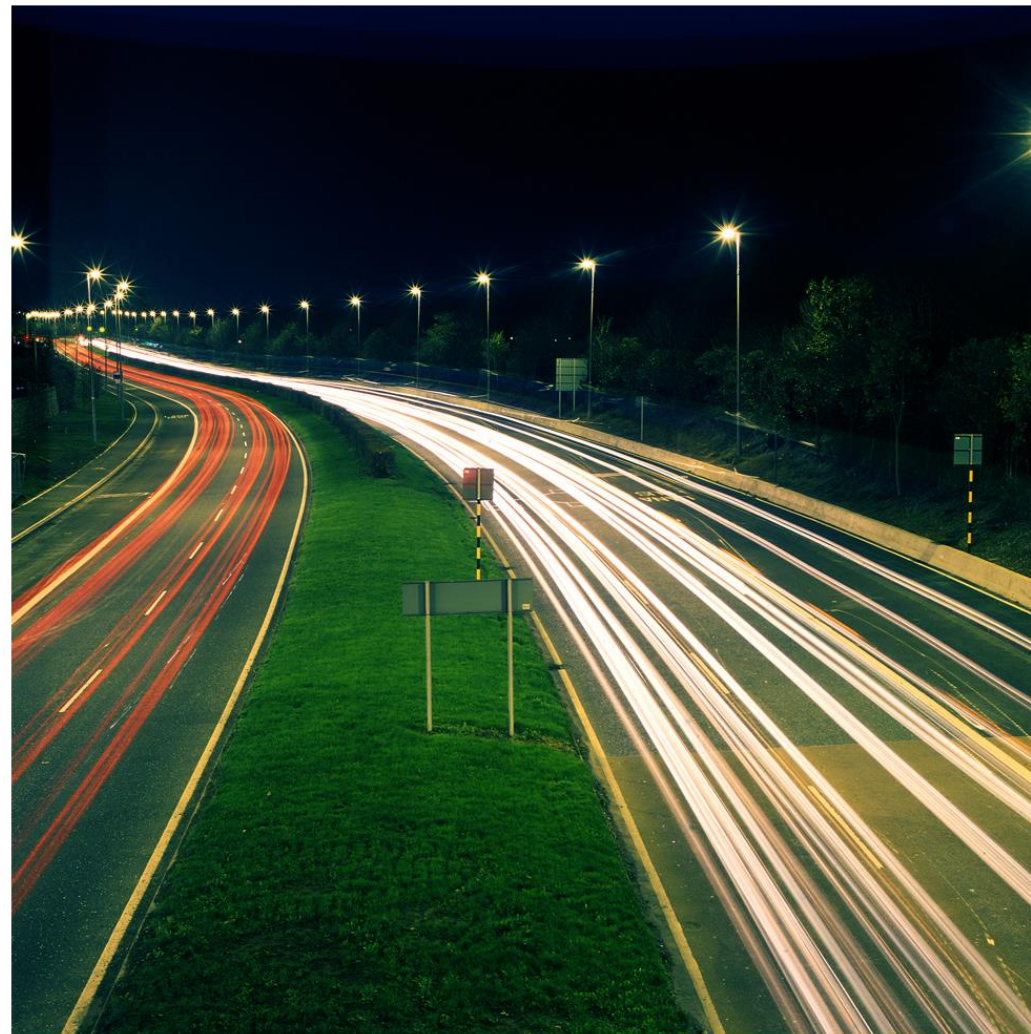
ISO 800

ISO 1600

ISO 3200

ISO – NOISE

You Have
Mastered Manual Mode!



Summary

- ✓ Fully manual mode
- ✓ Using aperture and shutter together in manual mode
- ✓ ISO

Congratulations you have just completed Lesson 6

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

Blog: www.shawacademy.com/blog

Your Next Lesson

Lesson 7

- The next session is “The Colour of Light”
- Colour temperature/White Balance
- Focusing Techniques
- Attend all of the lessons LIVE and your knowledge will grow