

Newmarket Camera Club

Shoot Your First Video

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Core Concepts

- ❖ Your DSLR or Mirrorless Camera is a better video camera than most pure video cameras
- ❖ Video is pretty straightforward, not nearly as complicated as some people would have you believe
- ❖ Go with some basic standard settings and you WILL get technically solid video

Think Like A Filmmaker

- ❖ Stills require the viewer to craft the story
- ❖ Video and film TELL a story
- ❖ Clips are segments to a video, think of them as a “shot”
- ❖ Clips should in general be between 6 and 12 seconds to avoid viewer fatigue, unless they are part of a tutorial
- ❖ Bad audio wrecks good video, so at first, forget about recording audio at all

Video Jargon To Learn and Ignore

- ❖ Frame Rate - the number of frames stored per second to create the video
- ❖ Region Code - NTSC or PAL - where you would play a DVD or video tape
- ❖ Shutter Angle - term from old film cinema cameras, same concept as shutter speed, but different scale - DON'T WORRY ABOUT IT
- ❖ IPB - intraframe compression, smaller files, less able to do frame level editing, because not all frames are retained
- ❖ All- I - intraframe compression, each frame compressed individually, larger files, more editable content

Resolution? What?

- ❖ 1080 means 1080 horizontal lines and 1920 vertical lines effectively 1920 x 1080 pixels so ~2MP, aka FullHD
- ❖ 720 means 720 horizontal lines and 1280 vertical lines so ~0.9MP aka HD
- ❖ P stands for progressive scan, each horizontal line is displayed one after the other
- ❖ I stands for interlaced scan, where odd numbered lines are displayed followed in 1/60 with the even numbered lines

All About Live View

- ❖ Unless your camera has an electronic viewfinder, you will use the LCD to shoot
- ❖ You will see what is being recorded, including the exposure (make sure exposure simulation is turned on)
- ❖ Same button starts and stops “filming”
- ❖ Uses battery more quickly, be prepared with spares

Match Shutter Speed to Frame Rate

Frame Rate

Shutter Speed

23.98 / 24 fps

1 / 50

29.97 / 30 fps

1 / 60

59.94 / 60 fps

1 / 125

120 fps

1 / 250

Canon Frame Rate Settings

Movie rec. size

1920x1080 24fps 29:59

Low comp. (intra frame, ALL-I)

1920 30 ALL-I

1280 60 ALL-I

1920 30 IPB

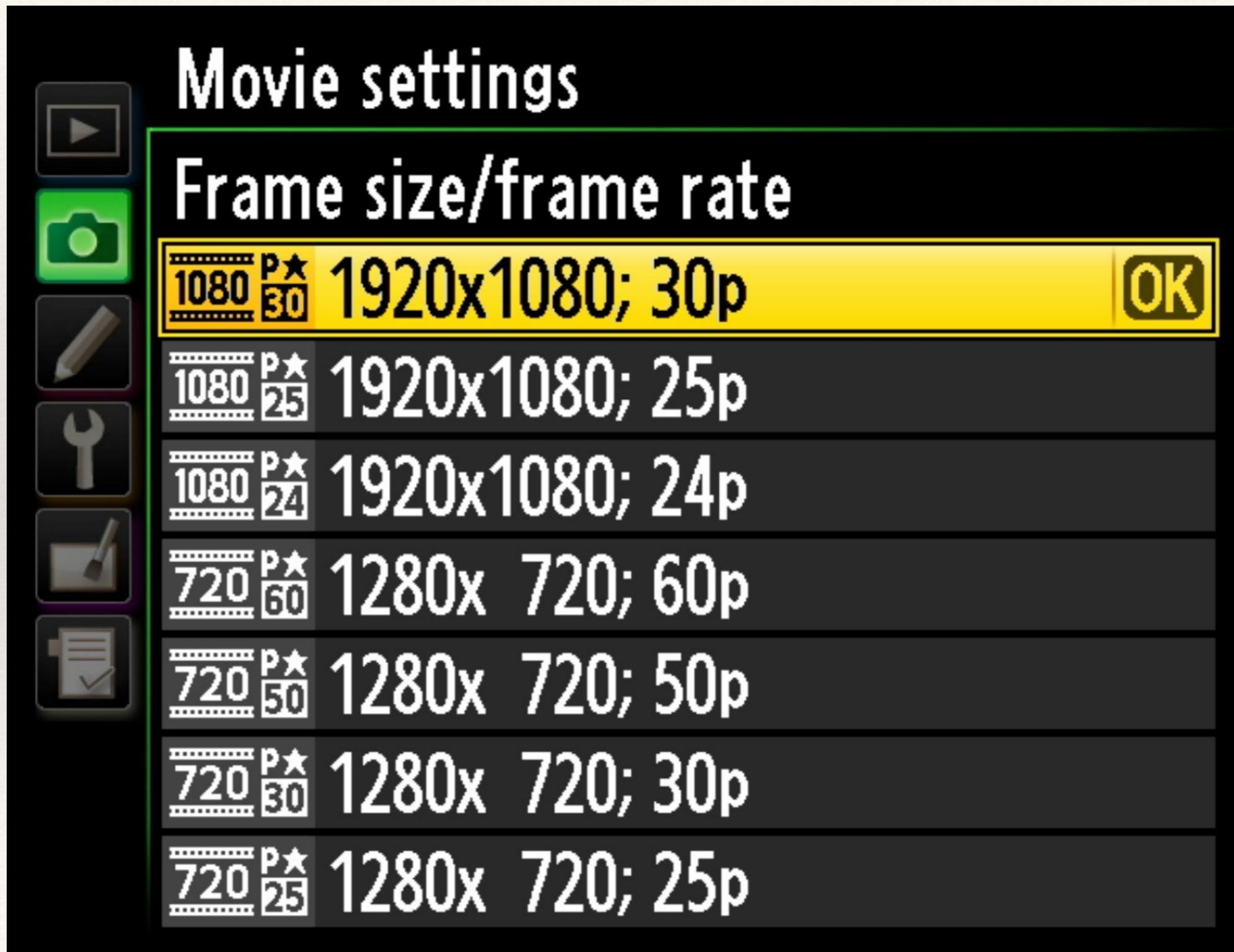
1280 60 IPB

1920 24 ALL-I

640 30 IPB

1920 24 IPB

Nikon Frame Rate Settings



The image shows a Nikon camera's menu for movie settings. The menu is titled "Movie settings" and is currently set to "Frame size/frame rate". The selected option is "1080 P★ 30 1920x1080; 30p", which is highlighted in yellow. An "OK" button is visible to the right of this option. Other options include "1080 P★ 25 1920x1080; 25p", "1080 P★ 24 1920x1080; 24p", "720 P★ 60 1280x 720; 60p", "720 P★ 50 1280x 720; 50p", "720 P★ 30 1280x 720; 30p", and "720 P★ 25 1280x 720; 25p". A vertical toolbar on the left contains icons for playback, camera, pencil, wrench, brush, and a checkmark.

Movie settings

Frame size/frame rate

 P★ 30	1920x1080; 30p	OK
 P★ 25	1920x1080; 25p	
 P★ 24	1920x1080; 24p	
 P★ 60	1280x 720; 60p	
 P★ 50	1280x 720; 50p	
 P★ 30	1280x 720; 30p	
 P★ 25	1280x 720; 25p	

Starting Settings

- ❖ ISO 800
- ❖ Shutter Speed to align with frame rate
- ❖ Aperture for depth of field first, exposure second
- ❖ Adjust ISO to fit
- ❖ Turn audio recording off for the moment

Canon Audio Settings

Sound recording

Sound rec.

Auto

Rec. level



Wind filter

Disable

-dB 40

12

0

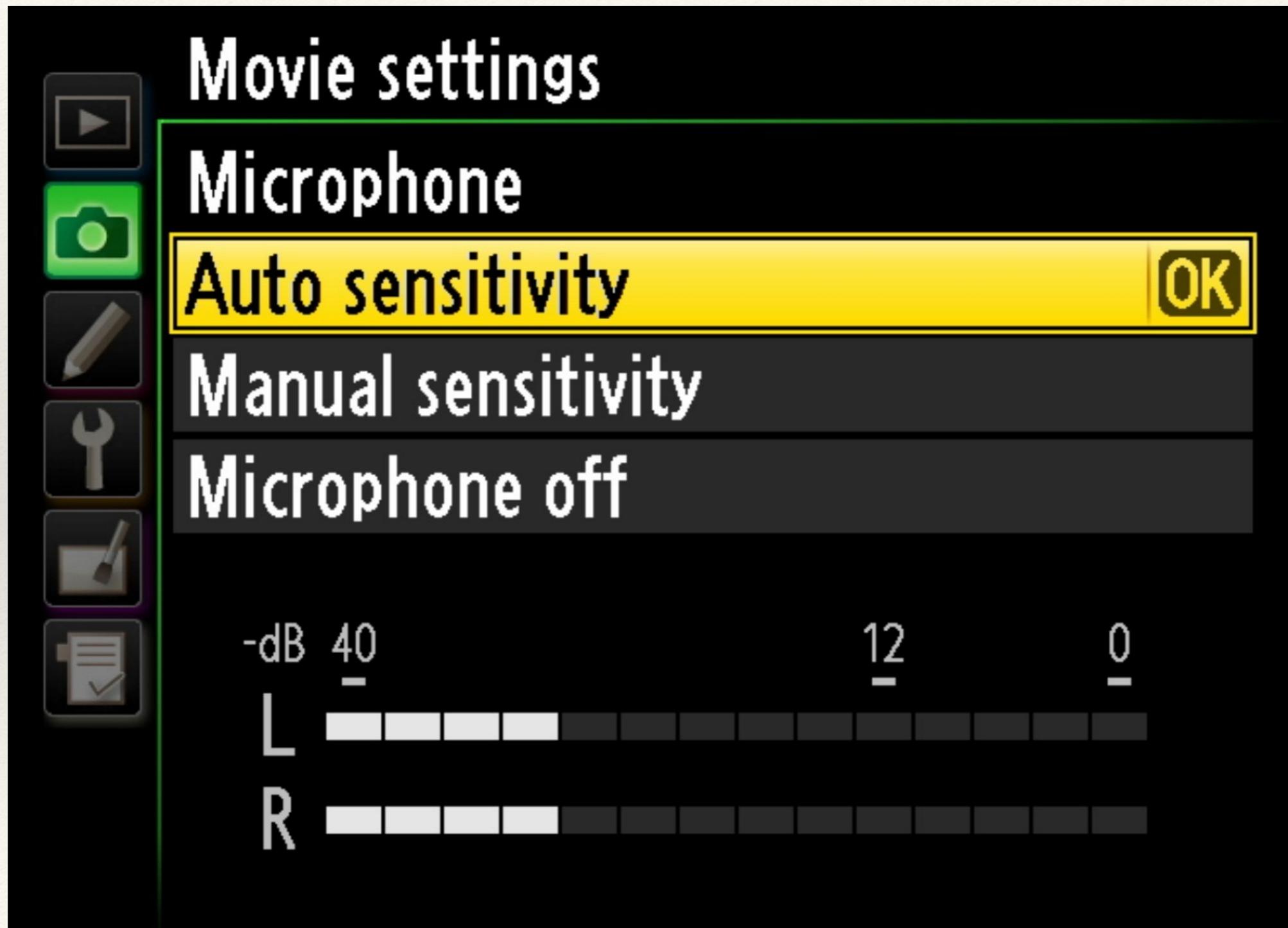
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R



MENU ↩

Nikon Audio Settings



Card Size, Transfer Rate and Storage

Card Size / Transfer Rate	16GB	32GB	64GB
5 MB / s	360 m	720 m	1440 m
10 MB / s	120 m	240 m	480 m
25 MB / s	70 m	140 m	280 m
50 MB / s	35 m	70 m	140 m

Let's Shoot Some Video!

Exercise One

- ❖ Set ISO to 1600
- ❖ Set frame rate to 30 fps at 1080p
- ❖ Set aperture to give a nice exposure in Live View
- ❖ Shoot a series of 6-10 second long clips of your partner doing something, fiddling with the camera, writing notes, some kind of action

Autofocus in Video

- ❖ All current cameras can autofocus in video, but most are very slow, and the autofocus motors are noisy
- ❖ Manual focus for a subject at a given distance, combined with appropriate depth of field can work very well
- ❖ Takes a bit of practice but not a huge issue

Bringing in Audio During the Shoot

- ❖ Turn the audio on
- ❖ Worst case, really the worst, use the built in microphones
- ❖ Better is to plug an off camera microphone into the camera's microphone jack e.g. RODE VideoMic
- ❖ Best is to record using an off camera microphone into a standalone audio recorder e.g. Zoom H6 with shotgun microphone or lavalier

Exercise Two

- ❖ Same settings as before, audio on using internal microphone
- ❖ Partner should speak on some topic for 10 seconds or so will looking into the camera, like an interview
- ❖ The audio will not be brilliant, lots of noise and background
- ❖ You will see why dedicated audio makes sense when you choose to use audio

Separate Microphone



Fluid Tripod Head



LED Light Panel



Camera Mount HDMI Monitor



Ok, You Have Video, Now What?

- ❖ If you have a Mac, you have iMovie
- ❖ If you have a Windows PC, you have Windows Movie Maker
- ❖ Both come with simple to follow tutorials on how to import and edit your “footage”
- ❖ Editing demonstration

Thank You!

- ❖ Video is VERY easy to add to your repertoire
- ❖ Clients LOVE hybrid content, mixing video and stills
- ❖ Most still photographers still don't shoot or add video, being multi-disciplined can help you differentiate
- ❖ Even if you don't sell your services, you can change the way others see your work