



Introduction to DSLR Video



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What you need to get started



DSLR with Video Function

Video Class SD card (or CF)

Tripod

ND filters

Video Editing software

Microphone

Focus /Zoom Puller



Introduction to DSLR Video

The camera Nikon D7100 APS-C



1,920 x 1,080 2K

(Full HD / 1080p)

at 60i, 50i, **30p, 25p, 24p**

frames per second

1,280 x 720 (720p)

at **60p, 50p**

frames per second

p = progressive

1080 lines per frame

i = interlaced

540 lines per frame

.MOV H.264/MPEG-4



Introduction to DSLR Video

The camera Nikon D7100 APS-C



Autofocus can be triggered during movie mode

Manual focus also available in movie mode

Shutter speed and **ISO** can be controlled in Manual mode

Aperture can be controlled in **AP** or **Manual** ***but only before recording begins***
(D800 in movie mode)

Class 6 or faster SD memory card



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SD card speed classes

www.sdcard.org



90MB/s
V30 2K Video
U3
D7100 170MB per minuite of video

Minimum Sequential Write Speed	Speed Class			Corresponding Video Format
	Speed Class	UHS Speed Class	Video Speed Class (NEW)	
Card Image				The necessary speed varies by each recording / playback device condition, even in the same format.
90MB/sec			V90	8K Video
60MB/sec			V60	4K Video
30MB/sec			V30	Full HD / HD Video
10MB/sec			V10	Standard Video
6MB/sec			V6	
4MB/sec				
2MB/sec				

https://www.sdcard.org/developers/overview/speed_class/index.html



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Camera Operation - Controlling Exposure



Shutter Priority

Shutter Speed should be
1/2x Frame Rate

e.g.

30 fps	shutter 1/60 secs
25 fps	shutter 1/60 secs
60 fps	shutter 1/125 secs

At base ISO, if scene too bright
at required aperture use
ND Filters to reduce exposure
e.g close up at f3.5 @ 1/60th



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Camera Operation - Sound Recording and Zoom Puller



Built In Mic

Set sensitivity via Shooting Menu

Can pick up Autofocus Movement

External Mic

Uses jack on camera

Stereo or Mono

Wind Cut options

Zoom Puller

Makes Zooming smoother!



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Camera Operation - Basic Settings



- **1920 x 1080 px 2K**
- **ISO 100**
- **30fps**
- **1/60 second**
- ***f8* ***
- **Manual Focus (fixed)**
- **External Mic**
- **Three Way Tripod Head**
- **Zoom Puller**

* Aperture will vary depending on lighting conditions



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Editing

Export as **H.264** codec (Medium Resolution)

Photoshop

Lightroom

Premiere Pro + Speedgrade

iMovie

Windows Movie Maker

adobe.com/how-to/video-editing

adobe.com/how-to/photoshop-apply-filters-clips

techradar.com/news/the-best-free-video-editors