



Introduction to DSLR Video



Introduction to DSLR Video

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



p = progressive 1080 lines per frame
i = interlaced 540 lines per frame

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

.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

<https://www.imaging-resource.com/PRODS/nikon-d7100/nikon-d7100A.HTM>



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SD card speed classes

www.sdcard.org



90MB/s

V30 2K Video

U3

**D7100 170MB per
minute of video**

Minimum Sequential Write Speed	Speed Class			Corresponding Video Format
	Speed Class	UHS Speed Class	Video Speed Class (NEW)	
Card Image				<div>The necessary speed varies by each recording / playback device condition, even in the same format.</div> <div>8K Video</div> <div>4K Video</div> <div>Full HD / HD Video</div> <div>Standard Video</div>
90MB/sec			V90	
60MB/sec			V60	
30MB/sec		U3	V30	
10MB/sec	10	U1	V10	
6MB/sec	6		V6	
4MB/sec	4			
2MB/sec	2			

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**
- ***f*8 ***
- **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