

HDSLR WORKSHOP

Presented By

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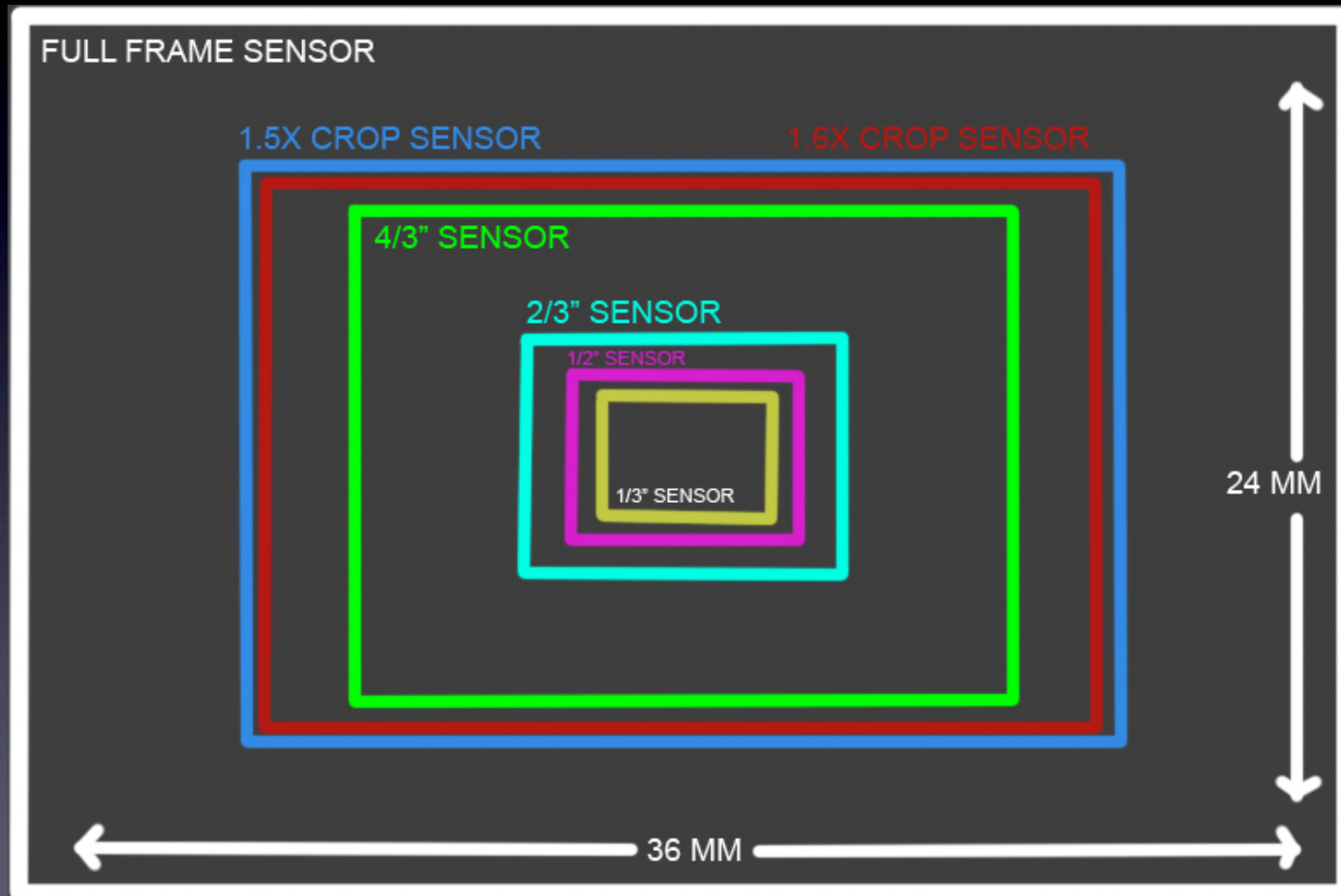
What is HDSLR?

- HDSLR is a combination of the terms “High Definition (HD)” and “Digital Single-Lens Reflex (DSLR).” Some also refer to it as VDSLR or HDDSLR. But, essentially, it is shooting video on DSLR cameras.

Why HD SLR?

- Large sensor sizes
- Picture Styles, Extended Dynamic Range
- Interchangeable lenses
- High Data Rate
- Over-cranking with some cameras

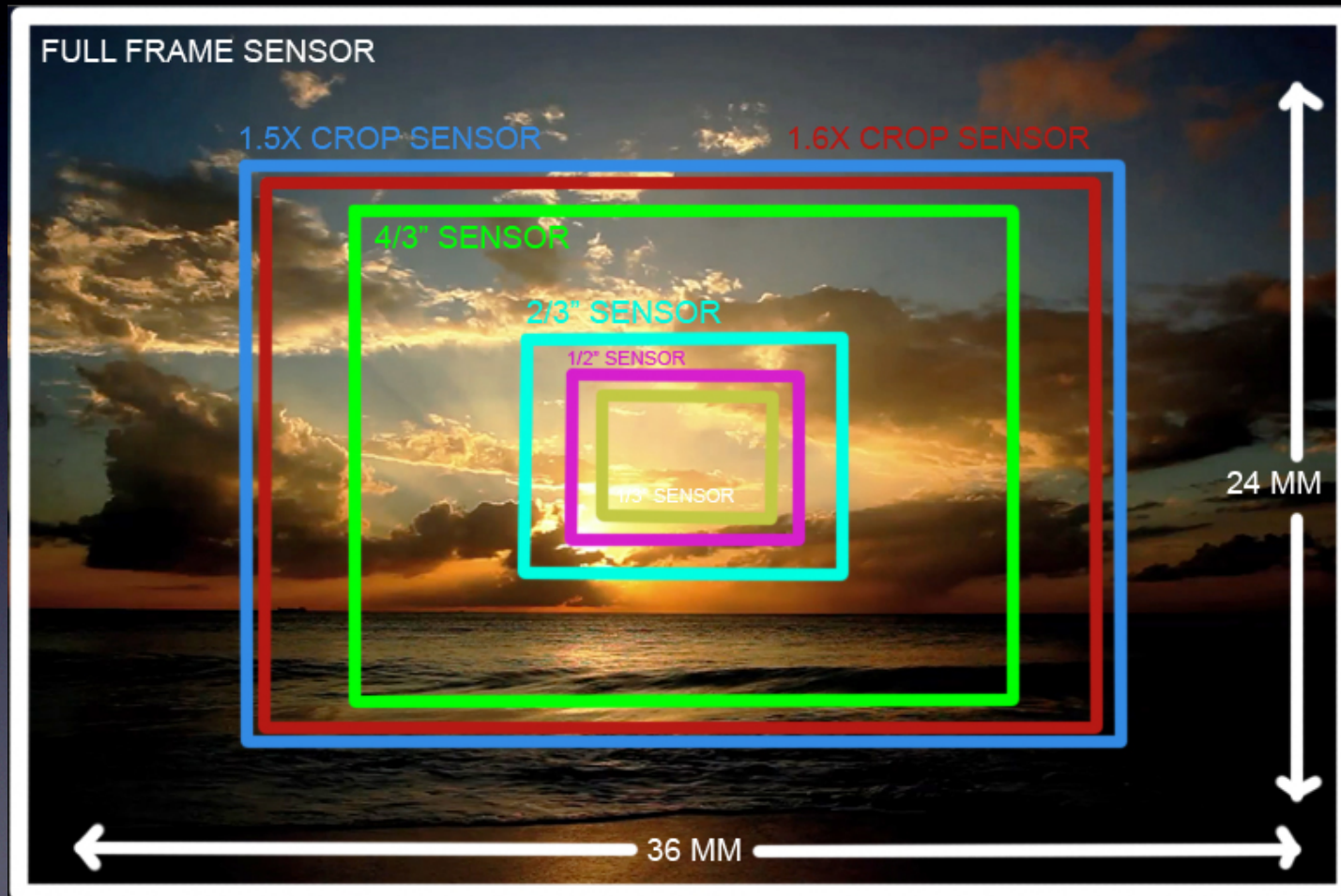
Sensor Comparison



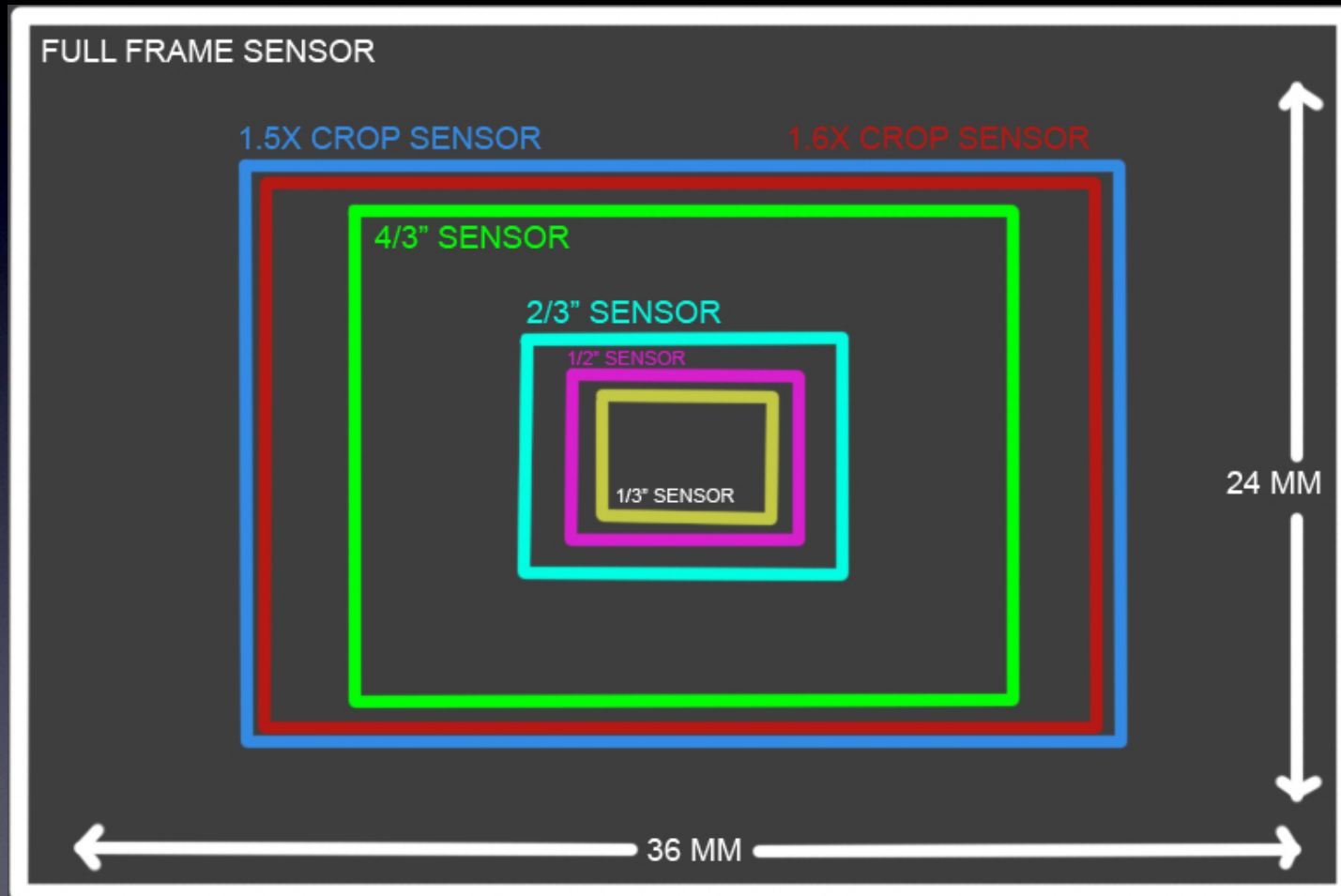
Sensor Comparison



Sensor Comparison



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Sensor Comparison

- Large sensors have more and bigger pixels that absorb more light. HD SLRS are ideal for low-light shooting situations.
- HD SLR sensors provide much more dynamic range than small video camera sensors.

Interchangeable Lenses

- Shooters can use a variety of new and vintage lenses on their HD SLRs, giving shooters great flexibility.
- SLR lenses can be fast and provide shallow depth-of-field not available in regular video cameras.

Video Data Rates

- Video cameras record at 24 to 35 Mbps
- HD SLRs record at 40 to 50 Mbps

Downsides

- Rolling Shutter (Jell-O Effect)
- Moire
- Audio
- Recording Time Limit
- Form Factor
- Lack of zebras, etc.

Rolling Shutter



Moire



Audio Issues

- Auto Gain Control (AGC)
- Lack of proper meters

Recording Limit

- Clips can be about 12 minutes
- Some HD SLRs have been known to overheat

Downsides

- Rolling Shutter (Jell-O Effect), moire, etc.
- Audio
- Recording Time Limit
- Panning with wide lens
- Form Factor
- Lack of zebras, etc.

HDSLR Comparison

- Canon 5D Mark 2, 7D, 60D, T2i (550)
- Nikon D7000
- Comparison Chart: [http://
blog.planet5d.com/2009/10/which-canon-
hybrid-camera-should-i-buy/](http://blog.planet5d.com/2009/10/which-canon-hybrid-camera-should-i-buy/)

Settings

- Picture Styles
- Shutter Speed
- Native ISO
- Aperture & when DOF is too shallow

Let's Shoot

- Shoot exercise #1: shoot a process

Fixing Audio Issues

- What is Dual Audio?
- Techniques for shooting and recording audio separately

Dual Audio

- Shooting Exercise #2: Shooting and recording separate audio. Do an interview and shoot a process.

Syncing Audio

- Using Pluraleyes in Final Cut Pro
- Setting up your projects
- File management

On-Board Audio

- 5D Mark 2 and 60D have manual audio

Lenses

- Canon Lenses?
- Nikon mounts!?!
- Vintage lenses

Monitor Solutions

- Loupes
- External monitors
- LCD screens

Support Gear

- Rigs, Rigs, and more Rigs
- Cheap choices: jag35.com, express35.com, ebay.com

Resources

- www.cinema5D.com
- www.planet5D.com
- www.photocinenews.com
- www.dslnewsshooter.com
- www.philipbloom.net