Digital Cameras

Dynamic Range

1/80s, ISO 400, f/10

Photo by Dan Armendariz, 2006
Digital Cameras

Dynamic Range

Photons (Light)

Pixel ("Bucket")

Collected Light
Digital Cameras

Sensor Sizes

Sensor Sizes

1/2.5”
6 MP

APS-C (SLR-sized)
6 MP
Images from http://www.dpreview.com/learn/?/Glossary/Optical/Perspective_01.htm

1. 33mm. 2. Crop of #1. 3. 80mm from same distance. 4. 33mm & closer

Sensor Sizes

Focal Length and Perspective
Sensor Sizes

Focal Length and Perspective

Sensor Sizes  Focal Length and Perspective

Sensor Sizes

Focal Length and Perspective

Sensor Sizes

1/2.5”
0.5 MP

APS-C (SLR-sized)
6 MP

Same size pixels.. still dark?
Sensor Sizes

Depth of Field

Image from http://www.clarkvision.com/photoinfo/dof_myth/