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### Fundamentals of infrared and visible detector operation ...

The infrared regions are classified as follows: Near Infrared 12,500 to 4,000 cm<sup>-1</sup> (0.8 to 2.5 μm) Mid Infrared 4,500 to 400 cm<sup>-1</sup> (2.5 to 50 μm) Far Infrared 400 to 12.5 cm<sup>-1</sup> (50 to 800 μm) Using these units, visible light is from 0.36 to 0.75 μm, or 27,778 to 13,333 cm<sup>-1</sup>.

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Using these units, visible light is from 0.36 to 0.75 μm, or 27,778 to 13,333 cm<sup>-1</sup>. There is a discussion of these units below. In the case of infrared spectroscopy, infrared light passes through a sample and certain frequencies of the light are absorbed by the chemical bonds of the substance, leading to molecular vibrations.

### The Fundamentals of Infrared Spectroscopy

Infrared light or thermography is the use of an infrared imaging and measurement camera to see and measure thermal energy emitted from an object. Thermal, or infrared energy, is light that is not visible because its wavelength is too long to be detected by the human eye; it's the part of the electromagnetic spectrum that we perceive as heat.

### What is Infrared? | FLIR Systems

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$NA = \sin \theta$ , where light incident on the lens at angles up to  $\theta$  is imaged onto the focal spot. In terms of the diameter of the lens,  $D$ , and the focal length,  $f$ ,  $\tan \theta = D / 2 f$ .  $F / \# = f / D$ , so for small angles where  $\sin \theta \approx \tan \theta \approx \theta$ ,  $NA \approx 1 / [2 F / \#]$ . FIGURE 2-3 The Airy disk.

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### Measurements and Uncertainty - Fundamentals of Infrared ...

Infrared light from the Sun accounts for 49% of the heating of Earth, with the rest being caused by visible light that is absorbed then re-radiated at longer wavelengths. Visible light or ultraviolet-emitting lasers can char paper and incandescently hot objects emit visible

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