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and test infrared and visible detectors. The  
book provides a convenient reference for  
those entering the field of IR detector



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2. What is infrared (1) It is not visible as its wavelength is longer than the visible light. It is independent from the brightness or darkness of the visible light. (2) It is

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radiated naturally from all objects having the temperature of absolute  $0^{\circ}\text{K}$  or higher.

## ~~BASICS OF INFRARED~~ ~~BASICS OF INFRARED~~

Using these units, visible light is from  $0.36$  to  $0.75\ \mu\text{m}$ , or  $27,778$  to  $13,333\ \text{cm}^{-1}$ .

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Detector Operation 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~~

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In this study, we report novel  
diazocoumarin compounds that can be  
photoactivated by visible (430 – 490 nm)

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and near-infrared light (800 nm)

irradiation to photo-uncage reactive  
carbene intermediates, which could  
subsequently undergo an insertion

reaction with concomitant fluorescence  
“ turned on ” .

~~A Visible and Near-Infrared Light~~

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The infrared regions are classified as  
follows: Near Infrared 12,500 to 4,000

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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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Extending from the red edge of the visible region to 1 mm on the wavelength scale, IR radiations were first come across by Sir William Herschel in the nineteenth century by sensing the temperature escalation across the visible zone and then from the visible zone to beyond, which was then soon identified as the IR region [3, 4,

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5]. Akin to the situation in the ultraviolet region, the IR radiations are invisible to the human eye.

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Detectors." National Research Council.  
2010. Seeing Photons: Progress and Limits  
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Arrays. Washington, DC: The National  
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UV-visible spectra generally show only a few broad absorbance bands. Compared with techniques such as infrared spectroscopy, which produces many narrow bands, UV-visible spectroscopy provides a limited amount of qualitative information. Most absorption by organic



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compounds results from the presence of  
(that is, unsaturated) bonds.

Primer—Agilent

The first Infrared spectra were generated using gratings to scan the infrared spectral region, slits to isolate spectral lines, and thermopiles for the detection of infrared

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light. Fourier Transform Infrared (FTIR) spectrometers do not use gratings, but rather spectra are generated in the time domain, following the position of a moving mirror ...

~~FTIR Spectroscopy – Theory and  
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Infrared (IR), sometimes called infrared light, is electromagnetic radiation (EMR) with wavelengths longer than those of visible light. It is therefore generally invisible to the human eye, although IR at wavelengths up to 1050 nanometers (nm)s from specially pulsed lasers can be seen by humans under certain conditions.

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