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visible detectors. The book
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2. What is infrared (1) It is
not visible as its

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wavelength is longer than the visible light. It is independent from the brightness or darkness of the visible light. (2) It is radiated naturally from all objects having the temperature of absolute 0°K

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Using these units, visible light is from 0.36 to 0.75 μm , or 27,778 to 13,333 cm^{-1} . There is a discussion

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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

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novel diazocoumarin
compounds that can be
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(430–490 nm) and near-infrared light (800 nm) irradiation to photo-uncage reactive carbene intermediates, which could subsequently undergo an insertion reaction with concomitant fluorescence

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“turned on”. Detector

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The infrared regions are
classified as follows: Near

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Infrared 12,500 to 4,000 cm^{-1} (0.8 to 2.5 μm) Mid Infrared 4,500 to 400 cm^{-1} (2.5 to 50 μm) Far Infrared 400 to 12.5 cm^{-1} (50 to 800 μm) Using these units, visible light is from 0.36 to 0.75 μm , or 27,778 to

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13,333 cm⁻¹. Detector

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Extending from the red edge of the visible region to 1 mm on the wavelength scale, IR radiations were first

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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

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region [3, 4, 5]. Akin to the situation in the ultraviolet region, the IR radiations are invisible to the human eye.

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UV-visible spectra generally show only a few broad absorbance bands. Compared with techniques such as infrared spectroscopy, which

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produces many narrow bands,
UV-visible spectroscopy
provides a limited amount of
qualitative information.

Most absorption by organic
compounds results from the
presence of π (that is,
unsaturated) bonds.

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

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the detection of infrared 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

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Infrared (IR), sometimes called infrared light, is electromagnetic radiation (EMR) with wavelengths

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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

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