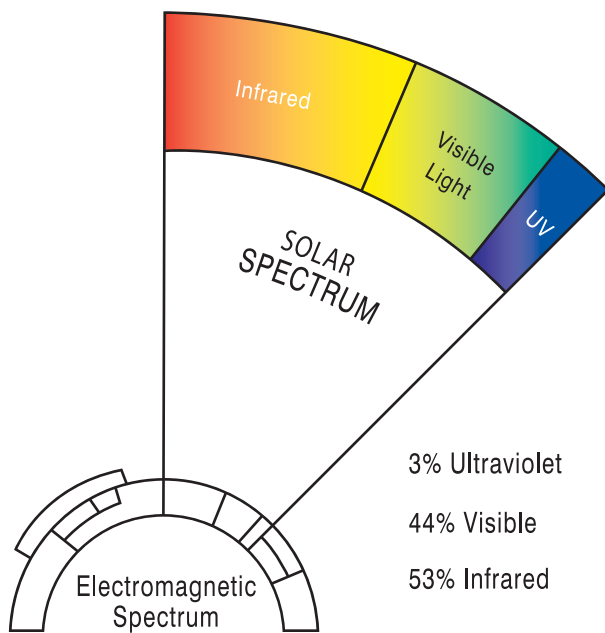
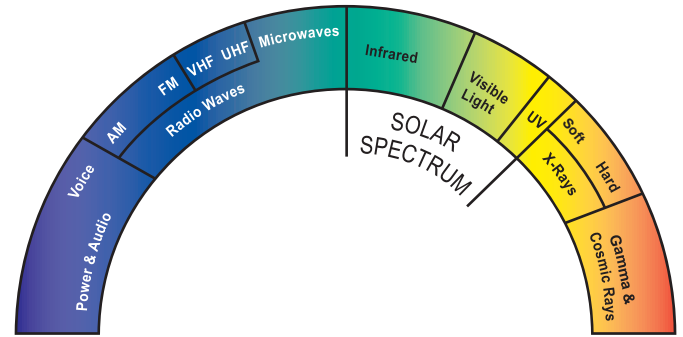


# THE ELECTROMAGNETIC SPECTRUM

## MEASURING LIGHT ENERGY WAVELENGTHS

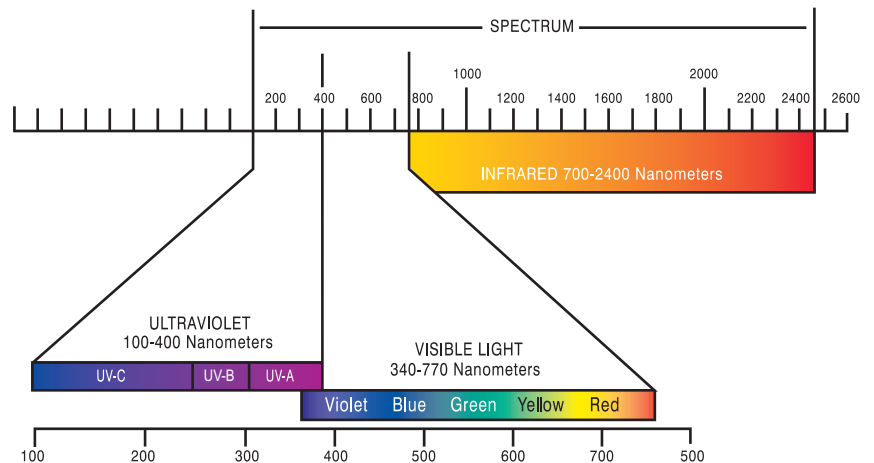
The electromagnetic spectrum measured in nanometers starting at the low end of the scale with very short, high-energy wavelengths. These short wavelengths are the ones which represent voice and power audio waves for AM and FM radio and microwaves.



## VISIBLE AND INVISIBLE LIGHT AND SOLAR HEAT

Roughly 44% of the sun's radiant energy is received by the earth in the form of visible light. Invisible light in the form of infrared solar heat accounts for another 53% of the sun's rays, with ultraviolet radiation making up the final 3%. Solar control window films are designed to reflect infrared heat waves and to filter out most ultraviolet radiation.

## SOLAR RADIATION



What is considered the visible band of the solar spectrum runs from roughly 380 nanometers to 780 nanometers. This is the only part of the spectrum visible to the naked eye. Above 780 nanometers come other invisible rays which we cannot see, but can only feel as heat. These are called infrared rays.