

Radio Waves



Radio waves have the lowest energy and are used for transmitting signals over long distances.

Microwaves



Microwaves are used in everyday appliances and for communication.

Infrared



Infrared radiation is felt as heat and is invisible to us. It can be detected using special sensors.

Visible Light



Visible light, ranging from red to violet, can be detected by the human eye.

Ultraviolet



Ultraviolet light can make some materials glow and can cause sunburn.

X-Rays



X-rays have very high energies and can penetrate most substances.

Gamma Rays



Gamma rays have the highest energies in the electromagnetic spectrum.

Broadcasting radio and TV signals, communication

Radar, satellite communication, cooking (microwave ovens)

Remote controls, thermal imaging, heating

Vision, photography

Sterilization, fluorescent
lights, tanning

Sterilizing medical
equipment, medical
imaging, security scanners

Nuclear reactions