

<u>Type of EM Waves</u>	<u>Use</u>	<u>Detector</u>	<u>Danger</u>	<u>Protector</u>	<u>Source</u>
Radio & TV	communication (under the sea, in space, radio and TV) Watching TV programmes, films, listening to the news,	Aerial	Large doses of radio waves are believed to cause cancer, leukaemia and other disorders.	metal	transmitter, outer space
Microwaves	cooking through microwave ovens, communications	Aerial	cataracts	metal screen	magnetron, transmitters, outer space
Infra Red	Turning on TVs through remote controls, security systems.	Photodiode, thermocouple, thermistor	Some people claim that the very low frequency field from overhead power cables near their homes has affected their health, although this has not been reliably proven.	aluminium foil, thermal insulators	warm objects, sun
Visible	humans viewing the world, photography,	Photodiode / photographic film	cataracts	polarising glasses, filter glasses	Stars and the sun
Ultra violet	detecting forged bank notes, causing white shirts to look cleaner?	Photodiode / photographic film / fluorescent materials	skin cancer, Arc eye is caused by UV radiation. This damages the outmost protective layer of cells in the cornea.	glass / sunscreen cream	Fluorescent tubes, very hot objects, sun
X-Ray	detecting broken bones, checking suitcases at the airport,	Photodiode / photographic film	cancer premature ageing	lead	X-ray machines, stars
Gamma Rays	medical tracers to detect cancer, killing bacteria, sterilising instruments, detecting broken pipes underground	Photodiode / photographic film / Geiger Muller Tube	cause damage to DNA, cancer	several cm of lead or several m of concrete	Radioactive nuclei, outer space (stars)

"cataracts" in your eyes, is a clouding of the lens preventing you from seeing clearly <http://www.darvill.clara.net/emag/>