

An introduction to Electronic Warfare – exploiting the electromagnetic spectrum



EW Support

Threat detection

Electronic support intercepts, identifies, and locates energy signals emitted from threats.

Frequency (Hz)

10^5

10^6

10^7

10^8

10^9

10^{10}

10^{11}

10^{12}

10^{13}

10^{14}

10^{15}

10^{16}

10^{17}

10^{18}

10^{19}

Radio Waves

Microwaves

Millimeter waves

Infrared

Ultra Violet

X-rays / Gamma Rays

Electromagnetic spectrum



EW Attack

Threat suppression

Electronic attack or jamming then directs energy toward those threats to disrupt and neutralize their effects.



EW Protection

Threat neutralization

Electronic protection protects personnel, facilities, equipment, and platforms from incoming enemy threats as well as from enemy or friendly disruption of combat capabilities.



Visible Light