

# HPM against Electronic Systems

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Modern military and commercial systems are more and more basically relying on electronics, sensors and networks. High Power Microwave (HPM) seems to be a promising non lethal weapon to disturb the electronic systems. This could lead to an abort of the actual mission.

The paper describes basics of the HPM technology. It covers differences between narrowband, ultra wideband (UWB), damped sinusoidal (DS) waveforms in time and frequency domain. Requirements for front door and back door coupling into electronic equipment are formulated.

After an overview on the technology on UWB sources including antennas, typical scenarios for HPM based non lethal weapons are discussed.

On electronic systems different effects caused by HPM sources are explained.

The contribution ends with a description of autonomous HPM systems and their future capabilities for further applications as non lethal weapons.