

# Radio

It's Radio.

## Excerpt from General Radio Information

Radio is the wireless transmission of signals, by modulation of electromagnetic waves with frequencies below those of visible light.

Electromagnetic radiation travels by means of oscillating electromagnetic fields that pass through the air and the vacuum of space. It does not require a medium of transport. Information is carried by systematically changing (modulating) some property of the radiated waves, such as their amplitude or their frequency. When radio waves pass an electrical conductor, the oscillating fields induce an alternating current in the conductor. This can be detected and transformed into sound or other signals that carry information.

Full spectrum, Dual-Modulation, range theoretically unlimited except by interference. Practical range is short, since the waves only travel at light-speed. A computer system can also jam the spectrum with white noise and intelligent false radio traffic (such as fake missile guidance commands and IFF traffic).

## For the Abwehrans

In space, it's primarily used to keep in contact with EVA Repair Crews for warships or to communicate with more primitive species. It can also be used to broadcast emergency signals in a general area. On planets, however, Radio is the primary form of communication. Military and Civilians alike use Radio in everyday life to communicate over moderate distances.

## Range Variation

Transmission Medium	Effective Range
Stations	10 Light Seconds (2,997,924 Kilometers)
Warships	2 Light Seconds (599,584 Kilometers)
Civilian Starships	1 Light Second (299,792 Kilometers)
Strike Craft	0.5 Light Seconds (149,896 Kilometers)
Civilian Small Craft	0.25 Light Seconds ( 74,948 Kilometers)
Planetary Facilities (Space Transmission)	1 Light Minute (17,987,547 Kilometers)
Planetary Facilities (Planetary Transmissions)	400 Kilometers
Military Vehicles	30 Kilometers
Civilian Vehicles	10 Kilometers
Powered Armor	6 Kilometers

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