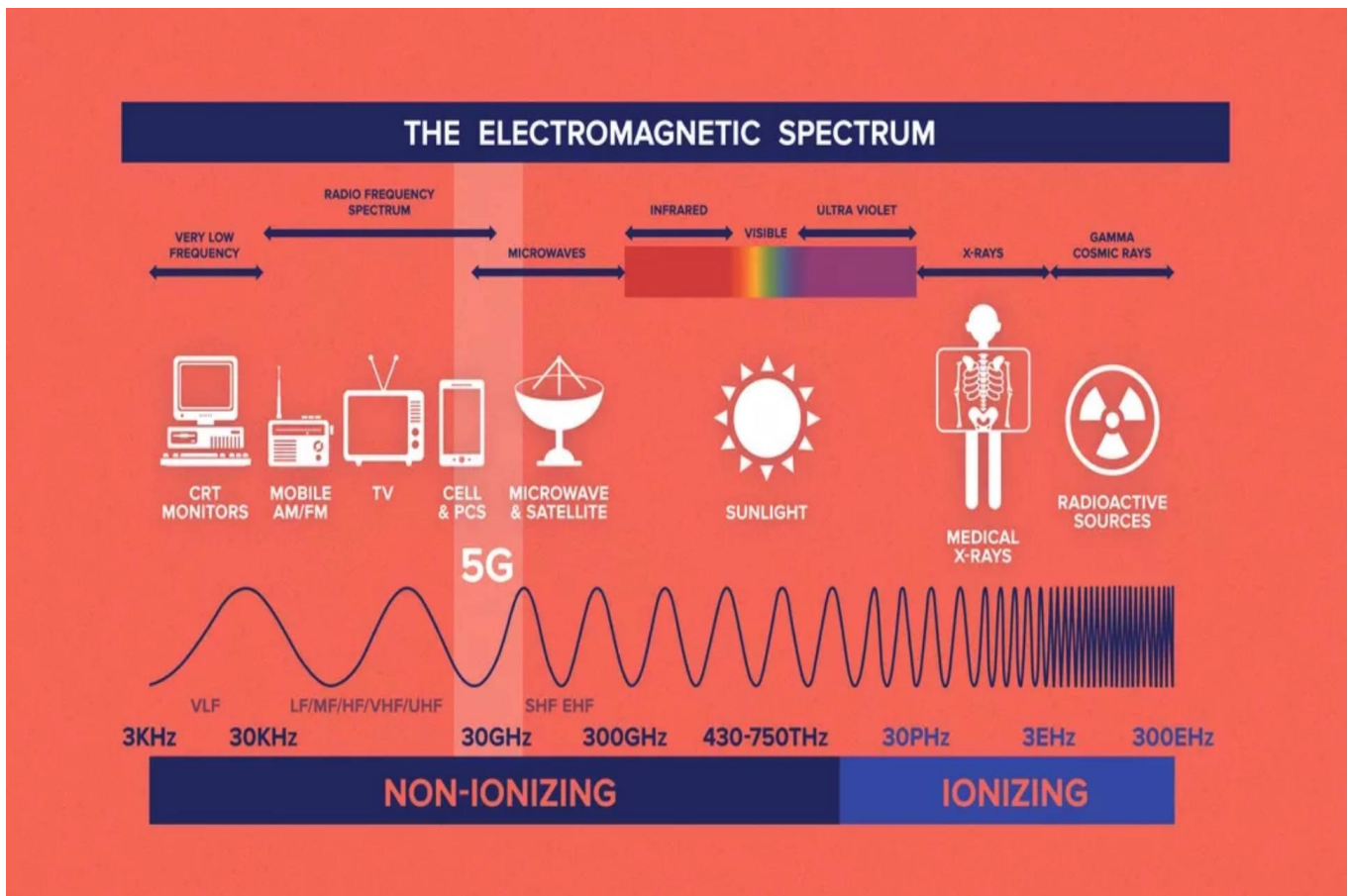


5G

By Roy Bardowell, CDDC



April of 2019, the very first 5G network was launched by Verizon. 5G, which stands for 5th generation, operates on a different scale than its predecessors, producing more electrical magnetic radiation.

Radiation is the emission (sending out) of energy from any source and can be harmful to humans. X-rays are an example of radiation, so is the light that comes from the sun and the heat that is constantly coming off our bodies.

Radiation exists across a spectrum from very low-energy (low-frequency) radiation to very high-energy (high-frequency) radiation. This

is sometimes referred to as the **electromagnetic spectrum**.

Electrical magnetic radiation is ubiquitous meaning it is literally everywhere. In the safe comforts of your own home, you are walking through an electrical magnetic flux. First, we had short wave radio signals for the transmission of radio. Soon to follow, television signals were established. Before long every home had an antenna on the roof. Personally, I have never heard of any potential dangers associated with radio (RF) or television transmissions. But, to be honest I didn't really care because I enjoyed the entertainment television shows provided.

The fifth-generation network is more complicated. 5G operates within two frequency ranges on the electromagnetic spectrum, ranging from ultra-high frequency to extremely high frequency. The first is the frequency range below 6 GHz, the same range currently used by existing 2G, 3G and 4G legacy systems. This year, cellular network carriers will broadly shift to this version of 5G, the main benefits being increased data speeds and reduced latency.

Both the United States and Canada are [investing billions of dollars to purchase spectrum](#) in auctions and deploy 5G infrastructure between 2020 and 2026.

Still, the BIG question remains; Is 5G harmful to humans? Two big factors influence that answer- proximity and exposure time.

I think the question is bigger than “what does this technology do to our bodies”?

Currently, new products are being developed to prevent the harmful effects 5G creates. Take for example, a new paint that is produced in Germany, capable of reflecting 5G rays. If you paint over a metal strip and connect the strip to an Earth ground the 5G radiation will be sent into the ground rendering it harmless. There will always be other places where 5G electromagnetic radiation can enter your home, such as windows or doors. Surprisingly, steel garage doors containing an outside skin made from galvanized steel, will reflect the 5G waves back into the public domain. This may offer some comfort, but in builder’s communities, all the garage doors will be the same. Meaning your neighbors doors can bounce 5G waves back toward your home. This bouncing can happen between many homes at the same time. Unfortunately, there is not much we can do other than just accept the situation as progress and hope for the best.

Roy Bardowell, CDDC, served as Operations Manager at Guardian Access & Door Hardware until 2014. He has been in the door and operator industry since 1973 and is known as one of the industry's most experienced operator technicians and trainers. Roy received the IDEA Commitment to Excellence award in 2008 and IDA's Jerry R. Reynolds Volunteer Service Award in 2017. Contact him at roythedoorman@gmail.com