# haptic feedback for intangibles

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My long term interests are in computational situational awareness, privacy, and security. In my studio work, I am currently looking at how we can translate intangible information from "Hertzian Space" via passive, haptic feedback mechaisms using vibration, touch, pressure, heat, etc.

In this project I use data from a software defined radio to detect the presence of hidden cameras and relay information via a tactor band.

video camera under 10 minute tick

2.4 GHz transmitter
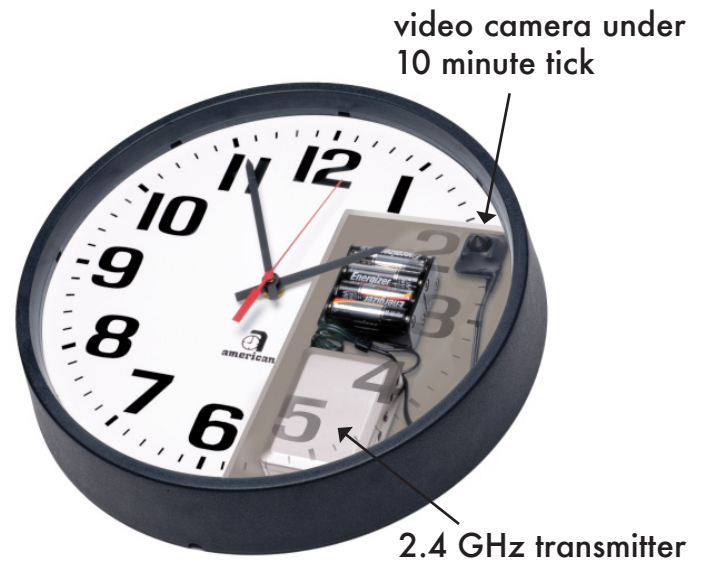
"This covert wall clock video camera is shown with the self contained DVR upgrade option that comes complete with SD memory card. [...] you can discreetly and safely view an entire room without fear of detection!"
– www.supercircuits.com
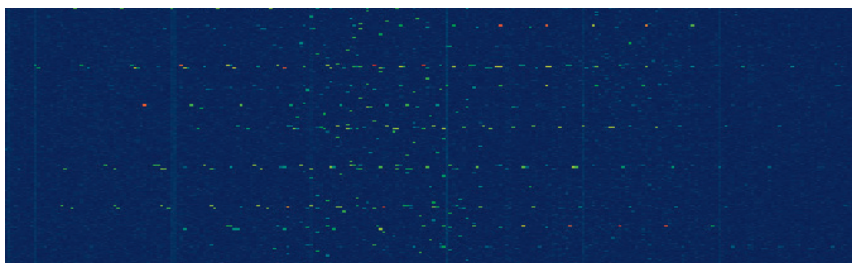
2.4Ghz ISM band with typical traffic: 802.11, Bluetooth(R)
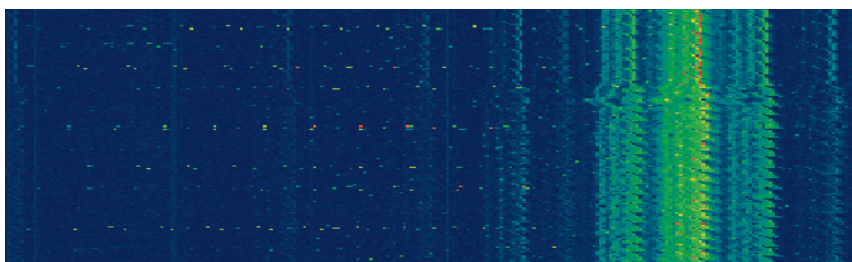
Signature of a common 2.4ghz wireless camera
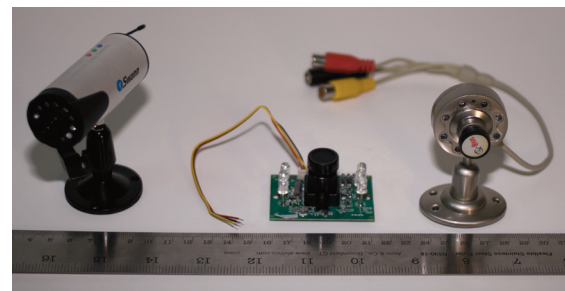
Common, of-the-shelf components for DIY hidden cameras in the US$50 price range.

tactor band

Tactor band can be worn above or below clothing, on upper arm, thigh, or waist. Because of adjustment and resizing issues, upper arm has been the easiest to use when working with test subjects. Power supply and signal processor weight have complicated long-term testing.

Eight Lilypad tactors arranged in a compass formation, driven by an Arduino Mega. The next iteration will use EAI tactors or similar commercial device.