

## Question: What does a CCTV system's video transmitter "line of sight" mean?

**Answer:** Line of sight means that no physical obstacles are in the path of the microwave transmission and the antennas can actually see each other.

	<p>Microwave signals will not go through hills. The density of the hill and water it contains in the soil absorbs the signal.</p>
	<p>Microwave signals will go through branches of trees but remember that they will be attenuated greatly by water. Vegetation is full of water so fit the best directional antennas and/or avoid the trees.</p>
	<p>In modern buildings sometimes the structure is lined with "FOIL". This can reflect or "ground" the wireless signal. Avoid transmitting through such "shields". If wiring is not an option then try mounting the receiver unit on the exterior of a building in an ABS box.</p>
	<p>Remember if you are installing on a day when the weather is good the signal will be good. However, when it is raining heavily microwave signals will be absorbed by the rain and reduce the distance it travels. Always keep the distance to a minimum and allow for the use of additional directional antennas.</p>
	<p>On some sites you may have other RF equipment that can interfere with the transmission unit. The best solution for a site like this is fitting directional antennas as they help "block" out the interference.</p>



**VideoMitter Lite**  
**Product Code:**  
**MITKIT-LITE**

This CCTV installation tip is aimed at helping you to install CCTV equipment. If you are looking for answers on "how to fit CCTV" or perhaps "how to network a DVR or NVR" or even "how to get CCTV on your mobile phone" why not check out our full range of CCTV installation tips at: [www.systemq.com](http://www.systemq.com)

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