Electromagnetic shielding equipment

Posted by Grupo Alpha - 19 Aug 2011 21:33

Alejandro Linconao, our new friend and collaborator technology expert, gives us here a lecture about "shielding" our electromagnetic equipment conveniently in this way to get optimal results in our field work. We guarantee that it is a must have item for anyone interested in conducting a paranormal investigation with the utmost rigor. Welcome to the Alpha Group partner!

Faraday's Law states that magnetic fields induce electric fields and vice versa so there is no magnetic or electrical fields or "pure", "separated". This is not our purpose exactísimo but alcanza.Estos electric fields to influence electrical conductors generate an electric current in the mismos.Comentario for purists: The intensity of induction will be related not only to the electromagnetic field strength but also same frequency, conductivity of the material, skin effect and several etcéteras.Ahora imagine that a very intense electromagnetic field is close to an electronic device In which the apparatus would be affected? Happen that the electromagnetic field generate electrical currents inside the device, currents "parasitic" as intense as the intensity of the magnetic field is exposed.

This is because the electronics common reason may be operating in front of a large electromagnetic field such as this in a CT room (see note 1)

This same principle is used in weapons of electromagnetic pulses (EMP)

http://en.wikipedia.org/wiki/Electromagnetic_pulse

That's easy: an electromagnetic field can affect electronic

The Shield

To protect an electronic device may use different materials to perform what is known as "shield." Good choices for this are aluminum and copper, the thicker the material the greater the degree of protection. Iron "sweet" (see note 2) is more effective at low frequencies than aluminum but is more cumbersome to have but that is commonly chooses the latter.

youtu.be/KRI-Wg0RfKQ

In the practice of paranormal research teams can be affected in certain places which may indicate that something unusual happens. The teams wrap in aluminum (see note 3) is useful for any measuring or collecting data without being at the mercy of electromagnetic fields or to have a computer "immune" to electromagnetic fields serving as a witness in be affected if similar equipment.

notes:

1 - remaining in electronic devices operating at 1,000 volts / meter, and are destroyed with a flow close to 4,000 volts / meter

2 - generically speaking iron is more effective against magnetic fields (below 1.3 kHz) and aluminum against electrical although these fields noted above are not independent.

3 - Aluminum is more effective the higher the frequency of the EM field

Related link:

Patent for a new material for electromagnetic shielding:

http://www.espatentes.com/pdf/2089467_t3.pdf

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