

## **15. Reasons for unstable connection? Why RF connection is sometimes very bad and sometimes extremely good?**

Interference could be the main reason, please check follows,

1)Electron magnetic wave interference; please check the environment of the site where the device is installed, is it in a factory? or a factory with big machine near by it? or any big power field source nearby?

2)is the antenna alignment perfect?

3)is the problem only happening when certain machine is in operation?

If the answer is yes, then situation becomes clear and simple now,

1>check the site of unit, keep it as farther as possible (height is helping greatly) from the machines.... it is a very common phenomenon that RF is very easily interfered by 'electromagnetic wave': big power field, motor, big machines; all are killers for RF;

2>check if the electrical power source is "NOT clean"; has the RF unit or PC shared the power with the machines? Please do make the power source is 'clean' for the RF unit; Separate the power source if they are sharing the same power source area. Definition for same power source is:

A>the same circuit loop (same fuse);

B>same control box;

Remedy to power interference: give an independent power source for the RF unit by connecting new power wire from the 'most outer' (or the most origin) in the 'inlet' of power cord from public loop. Make such power cable bypass other loop may share with the machines. If it is too troublesome, then a 'power filter' is required.