

12. Possible factors for short RF transmission distance of LC-01:

There are some 4 factors will affect the transmission distance between Base and Remote.

- 1> Antenna Installation: Most cases fall in this regard. Must be very carefully while assembling and installing the antenna without damaging it. It happened mostly that:
 - A. The installer only connected the antenna tube but forget the inside solid cord;
 - B. The antenna set, including the outer tube and inside solid cord, were all well tuned before delivery, and they are not supposed, and actually strictly forbidden, to bent or straightened any bit by the installer; but the installer did it carelessly or without knowing it.

These situations affect the transmission distance substantially. Sometimes, it limited the distance below 2Km.

- 2> Geographical blocking: hill, high buildings, strong power field....
- 3> Antenna Gain: If the connecting distance is still not satisfied, then you may consider using a higher gain antenna, say Yagi antennas.
- 4> RF Power: if the results is still not satisfied after using a higher-gain antenna, then we may consider the bigger power.