

AI-01185 AC Remote Control Low Signal Hack

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☰ Tags	Problem
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I have 2 Samsung Split Type Windfree indoor units in my living room and I want to utilize one unit most of the time.

What is the technology used in regular AC remote control? How can I reduce the strength of the signal to make it turn on 3 feet or less only of the unit?

Regular AC remote controls typically use **infrared (IR) technology** to send signals to the air conditioner A. The remote control has an IR LED that emits infrared light, which is detected by an IR receiver on the AC unit A.

To reduce the strength of the signal so that it only works within a 3-feet range, you can try the following methods:

1. **Obstruct the Signal:** Place an object like a piece of cardboard or a book between the remote and the AC unit to block the signal.
2. **Use a Signal Reducer:** Create a signal reducer by placing a piece of aluminum foil or a similar material around the IR LED on the remote to limit its range.
3. **Adjust the Remote's Angle:** Point the remote directly at the AC unit and avoid tilting it too much, as this can affect the signal strength.
4. **Check for Interference:** Ensure there are no other electronic devices or sources of infrared light nearby that could interfere with the signal.

Would you like more detailed instructions on any of these methods?

The technology used in regular AC remote controls is **infrared (IR) technology**. IR signals are invisible to the human eye and are emitted in short bursts. The remote control sends these signals to the AC unit, which is equipped with an IR receiver.

When the receiver detects the correct signal, it triggers the AC unit to perform the desired function.

To reduce the strength of the IR signal from your AC remote control, you can try the following methods:

1. **Increase the distance between the remote and the AC unit:** The farther away you are from the AC unit, the weaker the signal will be.
2. **Use a reflective surface:** Place a reflective surface, such as a mirror, between the remote and the AC unit. This will help to concentrate the signal and make it less likely to reach the AC unit from a distance.
3. **Use a weaker battery:** A weaker battery in the remote control will produce a weaker signal. However, this may also affect the range of the remote control.
4. **Modify the remote control:** Some people have attempted to modify their remote controls to reduce the signal strength. However, this is not recommended as it may damage the remote control or void the warranty.

It's important to note that these methods may not be completely effective, and the exact results will vary depending on the specific remote control and AC unit. Additionally, reducing the signal strength may also make it more difficult to control the AC unit from a distance.

