

Appendix C – Antenna positioning

When working with DVB-T products, how and where to position antennas, to achieve the best reception performance possible is an often asked question.

Nevertheless, there is no single best working global solution because DVB-T broadcasting is not really standardized and varies even within one country from region to region. Also the highest reception performance usually requests a higher visibility of the antennas which the vehicle owners usually reject.

The following rules which derive from our testing experience may help to find your personal best mix of reception performance and visibility of antennas.

We strongly recommend to first test your chosen antenna positions before final installation!

Glass-mount antennas

1. Make sure the windows which the antennas are mounted on are not metal coated (e.g. dark foil or anti-sun coats might contain metal)
2. Choose opposite windows for installation (e.g. front and back or left and right).
Best is front right and rear left.
3. In most areas there is vertical broadcasting, therefore mount vertical. If broadcasting is mixed or horizontal try also horizontal positions.
4. Performance is better if installed in a low position of the window.
5. Performance is better if installed with some distance to the window frame.

Alternative antenna (positions)

1. External roof-mount antenna – best reception
2. Flexible waterproof antenna inside side mirrors – very good reception, but must be first tested because metallic paint and mirror parts may disturb reception.
3. Waterproof antenna in bumper – totally invisible, but reception usually lower because of the low position. Might be hard to position antennas vertically.