Installation Instructions

RV-UHF Rearview Mirror Tag

PLEASE READ
BEFORE ATTACHING TAGS

The RV-UHF Rearview Mirror Tag is for vehicle identification in access systems that use AWID's UHF long-range readers LR-2000, LR-2200, LR-3000, and their "HiLo" variations. The tag is attached securely on the shell of the inside mirror. The installer must give instructions to the customer. End users need assistance for correct use of this tag.

READER LOCATION

The UHF long-range reader is usually installed facing a clear, open, balloon-shaped space, about 30 feet long and 16 feet diameter. An adjustable-head bracket lets you aim the reader toward the location of tags. The reader must be mounted above the travel lane or at another location where the reader faces the tag directly. For all sizes of **passenger cars**, typical mounting height is 9 feet for clearance if the reader is above the lane, or 8 feet if the reader is at the side of the lane.

TAG LOCATION

- The RV-UHF tag must be installed inside the reader's effective RF field, usually 15-20 feet in front of the reader.
- The tag reads best if it is in line with the reader, face-to-face, with clear line of sight between the tag and the reader.
- The RV-UHF tag is usually adhered to the shell of the inside rearview mirror, where the tag faces the reader directly.
- Other locations for the RV-UHF tag: (a) inside the windshield in the dark tinted area (where the tag is not seen) and (b) outside the vehicle on a dark surface – the front bumper, or a bar on the grille, or the shell of a side-view mirror.

The RV-UHF tag has only **one application** – permanent attachment on the selected surface, using the tag's single-use self-adhesive. When reading, this tag should not be held in the fingers, or carried, or taped, or inserted into a card pouch.

VEHICLE CHARACTERISTICS

Most vehicles read a tag well through the windshield. A few vehicles may have **metallic coating** on the windshield, or **wires embedded** in the glass, which shorten the read range. If so, we may need to use a different tag location or tag type. A successful location may be behind **top-center** of the windshield, where most recent cars have an uncoated area.

TEST FOR RELIABLE TAG READING

1. Move the vehicle so that the selected tag location is in the planned reading space. At the selected tag location, support the tag (black side facing the reader) using tape on the tag's outer edge. The tape should be easily peelable (masking or electrical tape – not clear mending or sealing tape). Keep the tag flat at all times, facing the reader directly.

2. Tag reads are indicated by AWID's LR-Sounder clipped to the reader's wires, or by the reader's LED, or by gate or door opening. (Do not use adhesive to hold the test tag against the glass. The same test tag may be used repeatedly.)

3. If the RV-UHF tag is tested on the windshield or outside the vehicle, move the test tag to different positions. Try both "portrait" and "landscape" orientations. Stay several inches from the edge of the windshield to avoid tag "shading".

ATTACHING THE TAG

1. Prepare the mirror's shell – clean it with glass cleaner spray and a paper towel.
2. Keep the tag flat while you peel the plastic sheet gently from the tag's adhesive.
3. Hold the tag at the smooth surface at the selected location.
4. Press the tag firmly so that it is flat and smooth on the surface – no bubbles.

This is a *destructible* tag for *one-time* application. After the adhesive cures, the tag will be destroyed if it is ripped off the mirror. The tag has slits for tamper-evidence.

ALTERNATIVES

- This tag can be installed on the side of a vehicle if the reader is at the side, facing the tag. Attachment on a side window is OK if the window is unmovable.

- AWID has other tag types for installation inside and outside vehicles. Please see AWID's Credentials product sheets or talk with the Sales or Technical staff.

FOR END USERS   Prepare written instructions for the customer. Train the customer's technician in this installation procedure. The end users may not be able to install tags well.