

## Installation Instructions

### HT-UHF Hangtag

### PLEASE READ BEFORE ATTACHING TAGS

The HT-UHF Hangtag 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 may be moved easily between different vehicles. The installing dealer 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 inside vehicles as they are read. The reader may be mounted at the side of the travel lane, or above the lane. For a tag hooked on the rear-view mirror, typical reader height is 8 feet if the reader is at the side of the lane, or 9 feet for clearance if the reader is above the lane.

#### TAG LOCATION

- The HT-UHF **tag** must be hooked or held inside the reader's effective RF field, usually 10 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 tag may be held by fingers at the hook, so that the large surface of the tag faces the reader directly
- If the reader is at the side of the travel lane, the driver may need to unhook the tag and hold it facing the reader.

#### 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, hold the HT-UHF tag by squeezing the hook between your fingers. Keep the tag facing the reader through the windshield.
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 tape the test tag inside the glass. The tag reads best when it is at a distance from the glass.)

#### ATTACHING THE TAG

1. For security, record the tag's code, then pull the printed code label off the tag.
2. On the **rear-view mirror**, press the tag's hook over the post of the inside mirror. Either side of tag may face the reader. The tag should hang freely. If necessary, tilt the tag by fingers so that the tag faces the reader directly.
3. In the **fingers**, squeeze the tag's hook to hold the tag facing the reader.
4. When reading, the Hangtag should be away from material on either side.

The HT-UHF Hangtag can be moved easily from one vehicle to another. It can be carried in a pocket between uses. Keep the tag flat when moving it.

#### ALTERNATIVES

AWID has other tag types for installation inside and outside vehicles. Please see AWID's Credentials product sheet and Technical Reference "Alternatives for 'Difficult' Cars", 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.

