

## **Installation Instructions**

### **VT-UHF Sunvisor Tag**

#### **PLEASE READ BEFORE ATTACHING TAGS**

*The VT-UHF Sunvisor 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 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 the vehicles. The reader must be mounted at the side of the travel lane, or above the lane. For all sizes of **passenger cars**, typical mounting 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 VT-UHF **tag** must be installed inside the reader's effective RF field, usually 12-15 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 is usually clipped on the bottom edge of the driver's sun-visor, facing the reader through the windshield.
- If the reader is at the right side of the travel lane, the sun-visor tag must be clipped on the passenger's sun-visor.

The VT-UHF tag should not be held in the fingers or inserted in a card pouch for code reading. When you test the tag, it is best to have the white plastic clip in the tag's slot, and hold the clip by your fingers with the tag away from your hand.

#### **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 VT-UHF tag by squeezing the clip 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. Slip the tag under the smaller tab of the clip, with the slot at the end of the tab.
3. Press the tag away from the larger tab. This locks the tag on the clip's tab.
4. Lower the sun-visor. Push the clip over the bottom edge of the visor.  
The tag should face forward, toward the reader through the windshield.
5. After the tag is read, raise the sun-visor. The tag then cannot be read.

The tag reads best when it is *not* held in the fingers. It can be moved easily from one vehicle to another. It can be carried in a pocket between uses.

#### **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.

