

## Installation Instructions

### MT-UHF Metal-Mount Tag

## PLEASE READ BEFORE ATTACHING TAGS

The MT-UHF Metal-Mount 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. This tag has many applications, usually outside vehicles. Common uses are in industrial and commercial facilities. The installing dealer must give instructions to the customer.

### 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 where it faces the planned location of the MT-UHF tag. **Examples** of reader locations are (a) high above the travel lane (aimed straight down), (b) 8 feet high at the side of the lane (aimed at the front of approaching vehicles), and (c) a post or pedestal beside the lane (aimed straight across toward the side of the vehicle or container). Other locations are possible.

### TAG LOCATION

- The MT-UHF tag must be installed inside the reader's effective RF field, usually 4 to 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 MT-UHF tag is for permanent attachment to a flat surface outside the vehicle. It may be exposed to weather.

### APPLICATION CHARACTERISTICS

1. The MT-UHF tag may read best when it is fastened flat on a large metal surface, or with ¼ inch stand-offs at the ends.
2. The MT-UHF tag reads best when it faces the reader. It may be OK if it is rotated with a long edge nearer the reader.
3. If the MT-UHF tag is located on the side of a vehicle and the reader is beside the lane, **vertical** orientation of the tag may give best reading characteristics. Vehicles may then be able to move at higher speed past the reader.

### 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 using wire or cable ties, or tape over the tag's 2 screw holes. Tape should be easily peelable (masking, electrical, duct tape – not clear mending or sealing tape). Keep the tag 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 in place. The same test tag may be used repeatedly.)

### ATTACHING THE TAG

- **By adhesive:** Prepare the surface – clean it with glass cleaner and paper towels. Peel the protective paper from the back of the tag. Press the tag firmly against the flat surface. Allow the adhesive to cure for permanence.
- **By fasteners:** Push out the 2 screw-hole plugs from the ends of the tag. Select fasteners with a head that fits inside the screw-hole recesses. Mark and drill holes in the flat mounting surface.

For **removable tag:** Leave the paper covering the tag's adhesive. Use machine screws or self-tapping screws to hold the tag on the surface.

For **permanent tag:** Peel the paper cover from the adhesive on the back of the tag. Use screws or rivets to secure the tag on the surface.

**Last,** press the 2 plugs back into the ends of the tag, covering the fasteners.

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

**FOR END USERS** Prepare written instructions for the customer. Train a technician in this installation procedure.

