



## Maximum RFID

# UHF CREDENTIALS for VEHICLE MOUNTING with LR-2000, LR-2200 & LR-3000 READERS

### WS-UHF-0-0 Windshield Tag

- Self-adhesive — tag adheres permanently **inside windshield glass**
- Tag is destroyed if it is ripped off windshield after adhesive cures
- Hands-free identification — out of driver's line of sight
- Secure tag — for one-time use — slits give evidence of tampering



### RV-UHF-0-0 Rearview Mirror Tag

- Tag adheres permanently on shell of rear-view mirror
- Self-adhesive — tag is destroyed if it is pulled off after curing
- Hands-free identification — **low visibility** — black side faces reader
- Secure tag permanently attached inside or outside the vehicle



### MT-UHF-0-0 Metal-Mount Tag

- Bar-type tag — variety of locations and fastenings — reads **on metal**
- Self-adhesive — also held by screws, rivets, cable ties . . .
- Use inside or outside, on front or side or top of vehicles
- For big trucks, buses, forklifts, containers, golf carts, wheelchairs . . .



### SV-UHF-0-0 Sideview Mirror Tag

- Tag adheres permanently on edge of mirror shell
- Self-adhesive — tag is disabled if pulled off after adhesive cures
- Hands-free — small, thin, simple, **out of sight** under mirror
- Secure tag — flexible use in other outside locations



### PT-UHF-0-0 Portable Tag

- Tag installs like a toll highway tag on windshield behind mirror
- Hook-and-loop adhesive strip holds tag firmly in reading position
- Hands-free use inside vehicles — **move tag** easily to other vehicles
- For readers installed above the traffic lane or at either side



### VT-UHF-0-0 Sunvisor Tag

- Hand-held — tag can be held by fingertips on clip — or . . .
- Hands-free — tag clips to sunvisor — easily moved to other vehicles
- Clip holds tag facing reader through windshield when visor is down
- Lower visor to read tag — tag is **out of sight** when not reading



### HT-UHF-0-0 Hangtag

- Tag hooks on rearview mirror's post — easily moved or carried
- Hook lets tag hang free — to read, driver can turn tag by fingers
- Hands-free identification — also portable like a card — hold to read
- **Visible through windshield** for printed or laminated identification



### ST-UHF-0-0 Supertag

- Large tag with **superior read range** in tough assignments
- Attaches by double-side adhesive tape, screws, rivets, cable ties . . .
- Permanent or temporary mounting — for rugged use and bad weather
- Perfect in industrial and commercial applications — inside or outside





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**NOTE:** For UHF credentials **held by hand**, see product sheet "UHF Credentials for Holding by Hand". For **vehicle-mounted** tags, see below.

### Reading Distances – Up to These Distances in Practical Applications

Tag . . . Conditions	LR-2000, LR-2200, LR-3000	X-Series Readers	UA-612 Reader
WS-UHF-0-0 on windshield	25 feet (7.6 meters)	(Not applicable)	(Not applicable)
RV-UHF-0-0 on mirror shell	20 feet (6.1 meters)	(Not applicable)	(Not applicable)
MT-UHF-0-0 on metal surface	15 feet (4.6 meters)	(Not applicable)	(Not applicable)
SV-UHF-0-0 on sideview mirror	25 feet (7.6 meters)	(Not applicable)	(Not applicable)
PT-UHF-0-0 on windshield	15 feet (4.6 meters)	(Not applicable)	(Not applicable)
VT-UHF-0-0 clipped on visor	15 feet (4.6 meters)	(Not applicable)	(Not applicable)
HT-UHF-0-0 hanging on mirror	10 feet (3.0 meters)	6 inches (15 cm)	12 inches (30 cm)
ST-UHF-0-0 fastened on metal	35 feet (10.7 meters)	(Not applicable)	(Not applicable)

### Reader Selection

With vehicle-mounted tags, use LR-2000, LR-2200, LR-3000, and their "HiLo" variations.

### Technology in Tags

- UHF communications: Bi-directional between UHF readers and credentials.
- Excitation frequency: 865-868 MHz for the LR-2200 reader; 902-928 MHz for other UHF readers.
- Read repetition rate: Set in the readers. For "LR" readers, rep rate is 3 reads per second (field-programmable to slower rates).

### Encoding for Tags

- Code format type – Wiegand. • Open code formats – 26-bit-STD and 37-bit-AWI. • For a custom format, call AWID.

### Information Required in Purchase Order (Include leading zeros in facility code and ID numbers.)

- Quantity. • AWID's part no. • Code format (example: 26-bit-STD). • Facility or site code. • Start ID number sequence.

### Environmental Conditions

- Operating temperature: -31° F to +150° F (-35° C to +65° C).
- Operating humidity: 0% to 95% non-condensing.
- Exposure to weather: All tags accept exposure to bright sunlight. "Outside" tags are for use in rain, snow, and car washes.

### Size of Tags and Cards (Approximate)

Tag	Width	Height	Thickness	Notes
WS-UHF-0-0	4 inches	1 inch	<1/32 inch	Peel-off sheet covers adhesive.
RV-UHF-0-0	4-3/16 inches	1-1/8 inches	<1/32 inch	Peel-off sheet covers adhesive.
MT-UHF-0-0	8 inches	15/16 inch	1/4 inch	Self-adhesive. 2 holes for fasteners.
SV-UHF-0-0	4-3/8 inches	1/2 inch	<1/32 inch	Peel-off sheet covers adhesive.
PT-UHF-0-0	3-1/8 inches	1-5/8 inches	3/8 inch	Peel-off sheet covers adhesive strip.
VT-UHF-0-0	4-1/2 inches	2-3/8 inches	1/32 inch	Includes U-clip for sunvisor.
HT-UHF-0-0	2-1/4 inches	6-1/2 inches	1/32 inch	With hook to hang on mirror.
ST-UHF-0-0	5-1/2 inches	7-3/4 inches	3/4 inch	Flat back. 4 holes for fasteners.

### Slots and Holes

- WS-UHF, RV-UHF, SV-UHF, PT-UHF, HT-UHF: Must have **no slots or holes**, punched or drilled.
- VT-UHF: **Contains a slot** for the sunvisor clip (supplied with the tag).
- MT-UHF, ST-UHF: **Contains holes** at the ends for screws, rivets, cable ties. Must not be punched or drilled.

### Applications

- Use tags on cars, trucks, buses, fire trucks, forklifts, motorcycles, golf carts, transit vehicles, wheel chairs, gurneys, rail cars, etc.
- For **security**, WS-UHF and RV-UHF tags tear when they are ripped from their cured adhesive. SV-UHF tag is for one-time use only.
- For user **convenience**, all other tags may be moved easily from one vehicle to another vehicle.
- Tag type and mounting location must be **consistent** for all readers in a particular installation.
- If used with a "HiLo" reader (dual antennas), credentials may be different types, in different locations, on different vehicle types.

### Custom Graphics

- For quotation, send original artwork to AWID. • A local printer may be able to print graphics. • *Not* for ST-UHF tag.

### Literature for UHF Credentials

- Before installing any tag, read AWID's "Installation Instructions" sheet for that tag type.
- Visit AWID's Web site [www.AWID.com](http://www.AWID.com) to download all literature.

### Options and Accessories

- LR-TEK LR Reader Tech Kit: *Required* -- a one-time purchase for every installing dealer.



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