

# GM-UHF-LR



## INSTALLATION MANUAL

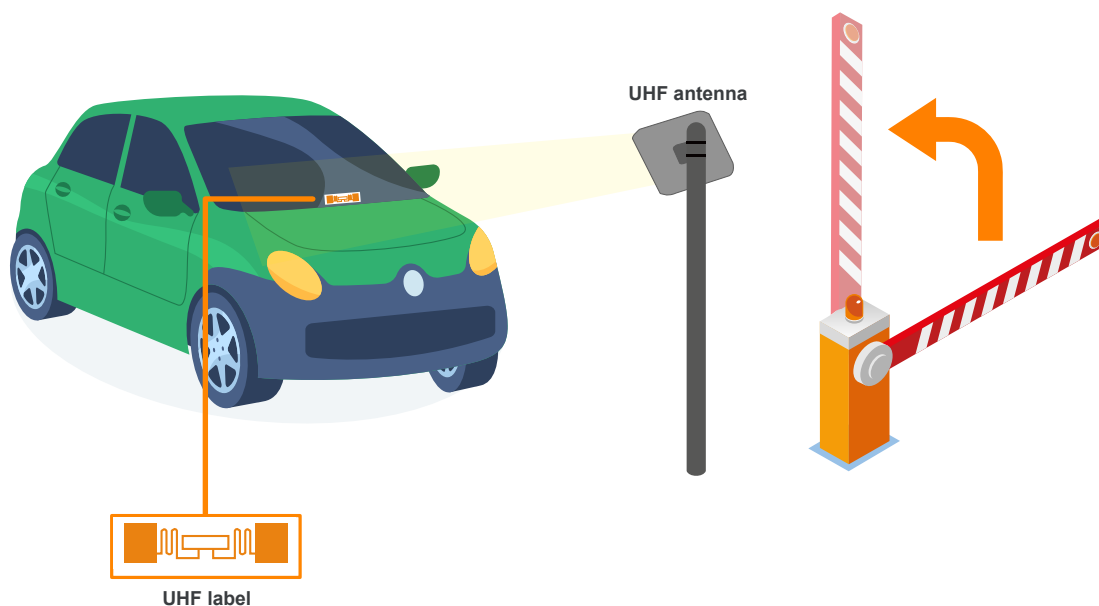
## INTRODUCTION

This manual details how to make use of UHF identification in iP-Opener.

This type of identification is especially suitable for vehicle access management, as well as for wanderer control.

### Vehicle access management

A vehicle containing a UHF tag previously registered in iP Opener is detected and access is granted by opening the barrier.

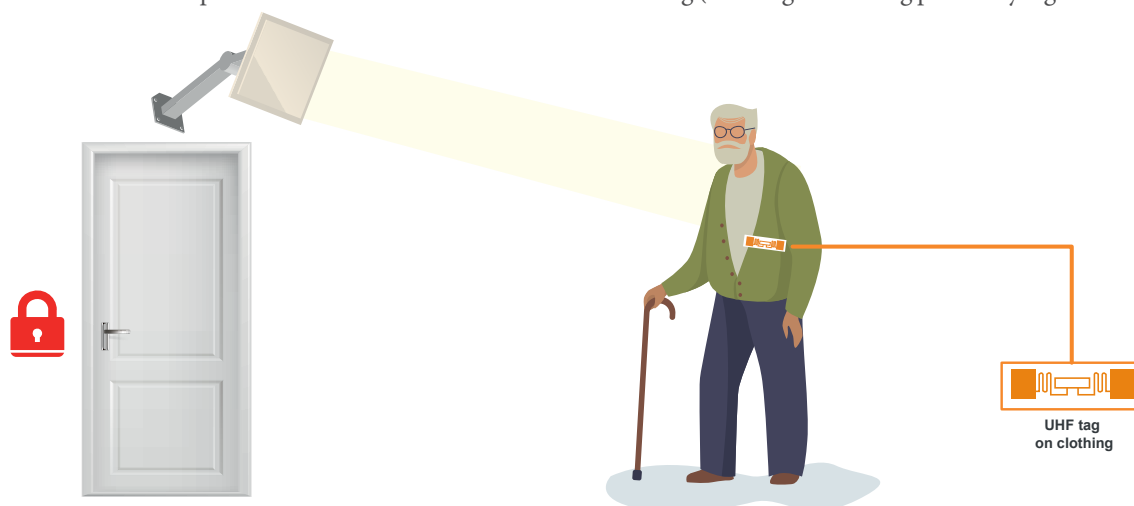


### Wanderer control

The door remains unlocked allowing the entry of people.



The door is locked when it detects a person who is not authorized to leave the building (UHF tag on clothing previously registered in iP Opener).



## RANGE OF PRODUCT

The elements that compose the UHF product range are described below.

| REFERENCE         | CODE     | IMAGE                                                                              | DESCRIPTION                                                   |
|-------------------|----------|------------------------------------------------------------------------------------|---------------------------------------------------------------|
| GM-UHF-LR         | 20720041 |   | Long-range UHF reader antenna (8~10m)                         |
| GM-USB-UHF        | 20700101 |   | Desktop reader for UHF credential identification.             |
| GM-UHF-CARD       | 20710040 |   | UHF identification in card format.                            |
| GM-UHF-LABEL      | 20710041 |   | UHF identification in sticker format.                         |
| GM-UHF-LAUNDRY    | 20710042 |   | UHF identification in tag format to be placed on clothing.    |
| GM-UHF-WINDSHIELD | 20710043 |   | UHF identification in sticker format for vehicle windshields. |
| GM-UHF-PULDOOR    | 20710044 |  | UHF identification in wristband format.                       |

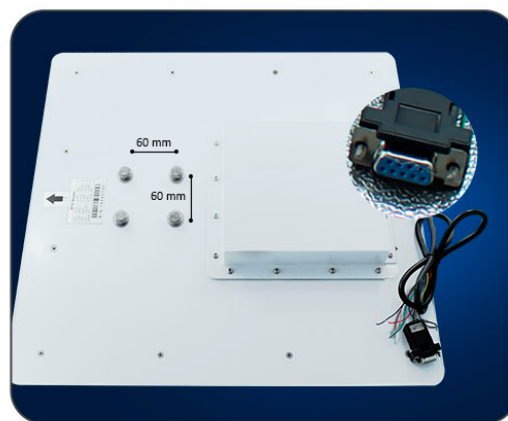
Acquire the reader antenna, the desktop reader and the type of credential required for identification.

## GM-UHF-LR ANTENNA READER MOUNTING

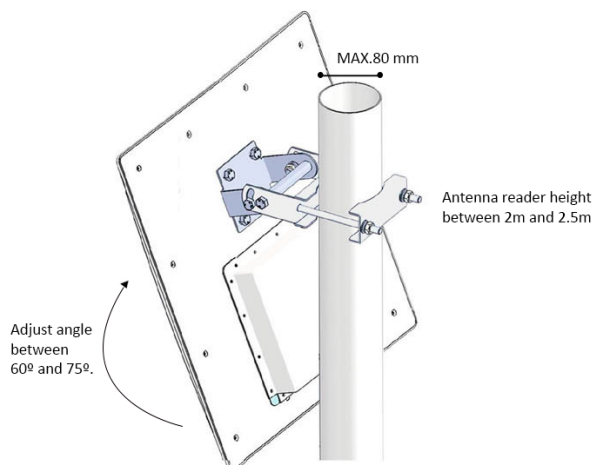
The reader antenna includes the following material.

| PRODUCT            | IMAGE                                                                               | DESCRIPTION                                          |
|--------------------|-------------------------------------------------------------------------------------|------------------------------------------------------|
| UHF antenna reader |  | Antenna for UHF credential identification.           |
| 12Vdc power supply |  | 12V DC adapter                                       |
| RS-232 cable       |  | DO NOT USE.                                          |
| Bracket            |  | Bracket for placement of antenna reader on the mast. |

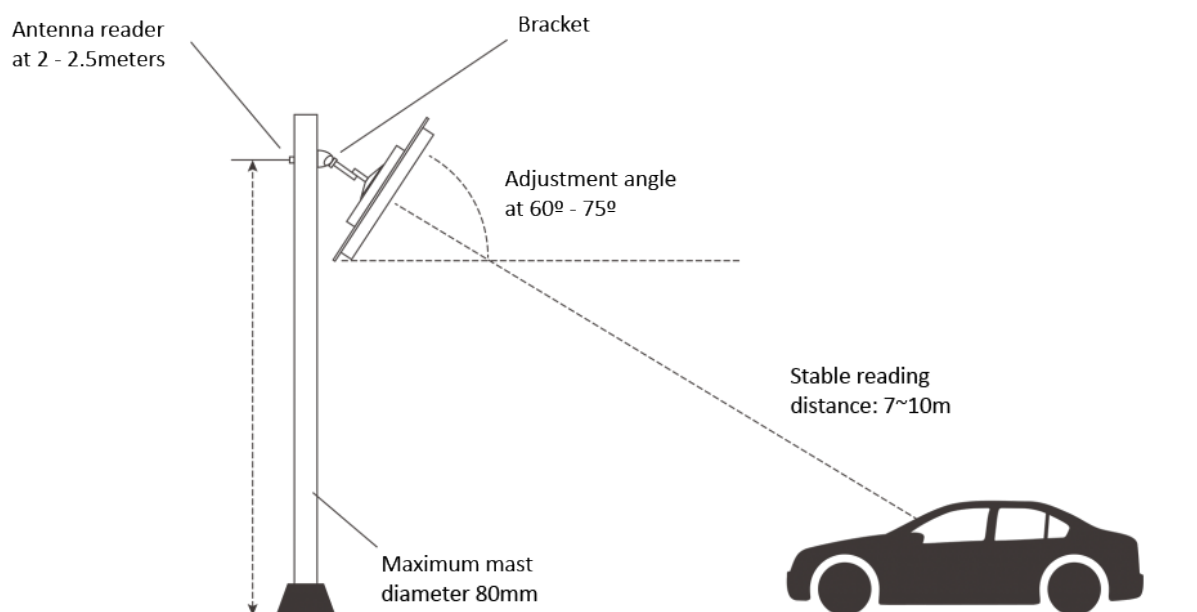
The dimension of the antenna is 445(W) x 445(H) x 40(D) mm. While the antenna fixing holes for bracket placement keep a distance of 60mm between them.



First, attach the bracket to the back of the reader antenna, then attach the bracket to the mast. This should be done on a mast with a maximum diameter of 80mm and it is recommended to do it at a height between 2 and 2.5 meters. Finally, direct the antenna towards the desired identification point at an angle of 60° to 75°.

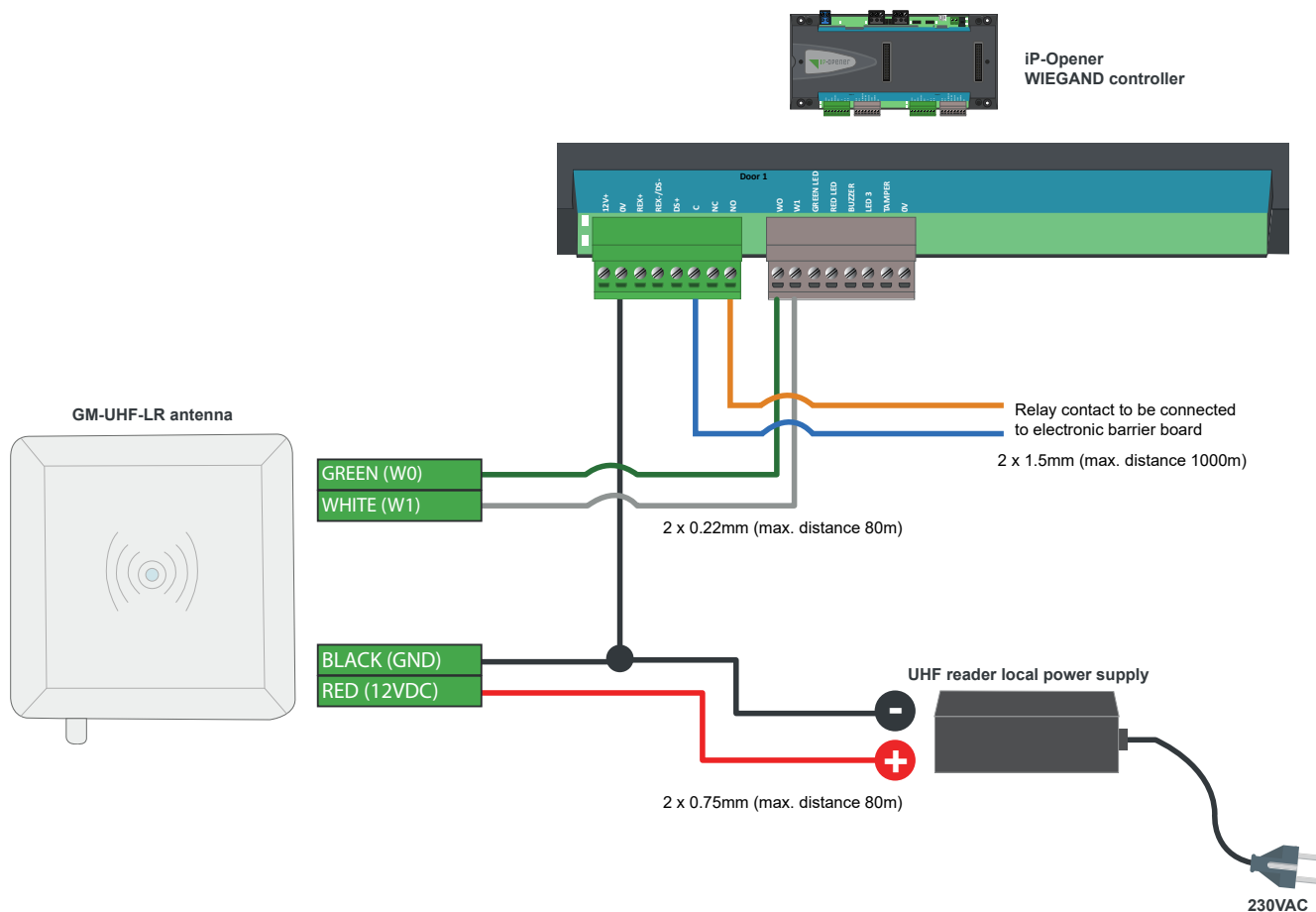


See assembly example below:



**IMPORTANT:** The maximum read range can only be achieved under optimal installation and operating conditions, such as proper antenna positioning and orientation, the absence of physical obstacles, and an interference-free environment. Furthermore, the range will depend on the type of credential used, with greater range achieved by those that incorporate a larger antenna (metal track printed on the tag). For this reason, the GM-UHF-WINDSHIELD and GM-UHF-CARD credentials offer the longest read ranges among the available tags.

## WIRING DIAGRAM



## PROGRAMMING

The UHF antenna works as a slave reader and depends on the configuration set in iP Opener, consult Golmar for the cost involved in the remote configuration of the system.

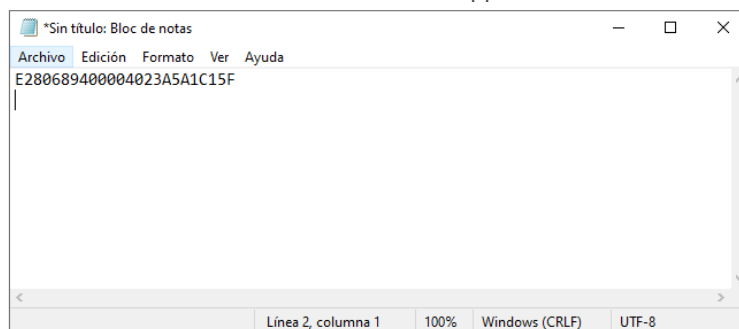
## CREDENTIALS REGISTRATION

To register UHF credentials in iP Opener follow the procedure below:

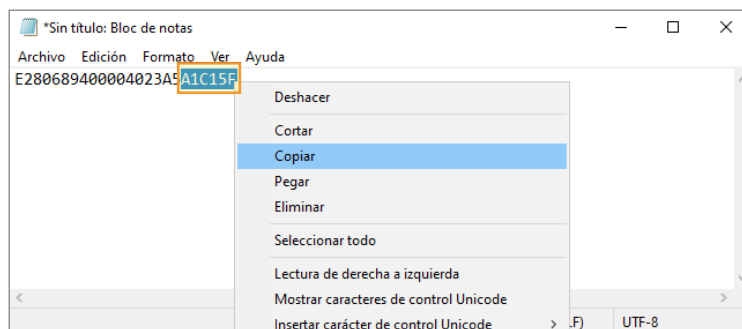
- 1) Connect the GM-USB-UHF Desktop Reader to your computer:



- 2) Open the “notepad” or some other text application.
- 3) Bring the UHF ID close to the GM-USB-UHF reader, the ID will appear on the screen.



- 4) Copy the last 6 digits of the ID.



- 5) Finally, generate a user in iP O opener with credential type “Other (hexadecimal)” and paste the last 6 digits of the ID copied previously.

To do so, go to the “Access profile and badges” menu , select the access profile that the user to be created is going to use, click on “Add a user”  and then “Add a credential” .

 A screenshot of the iP O opener web interface for creating a user. The "Last name" field is filled with "UHF user 1". The "First name" field is empty. The "Type" dropdown is set to "Resident". The "Door/zone access" dropdown is set to "UHF". Below these fields are expandable sections for "Additional profiles", "Extra options", and "Additional information". The "Credentials" section is expanded, showing a "Type" dropdown set to "Other (hex)" and a "Code" field containing "A1C15F". There is also a "Colour" field with a color picker icon. On the right, there is a user profile icon with a "Browse" button and a "Tag" icon.

The registered credential will be authorized:

 A screenshot of the "Events" log in the iP O opener interface. The log shows a single event: "Access by single credential" at "2024-05-30 16:25:11". The event details include "Element: WIEG CONTROLLER - Door 0001", "Information: UHF user 1", "Identifier: A1C15F", and "Priority: 5". The log is filtered to show results limited to 60 items.

In case it is required that a same user has different credentials, select the user, click again on “Add a credential”  and register the new credential as you have previously proceeded.

This image shows a single sheet of white paper designed for handwriting practice. It features 20 evenly spaced, horizontal dashed lines that run across the entire width of the page. The lines are thin and light gray, providing a guide for letter height without being distracting. There are no margins, text, or other markings on the paper.



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