

# GUARD TOUR MANAGEMENT SYSTEM USER'S MANUAL

WM-5000V8



## WM-5000V8 Guard Tour System User's Manual

### 1. What is guard tour system?

A guard tour system is a system used to help companies and organizations to organize, log and execute guard tours and patrols in their assets ensuring that the officers will accomplish their tasks within the predefined time intervals. There is a wide variety of guard tour systems, which can be divided in two major categories: Wand guard tour systems based on handheld devices and cloud guard tour systems based on modern mobile and cloud technology. Guard tour systems provide a means to check and record the time that a guard executes his guard tour by scanning specific checkpoints assigned on the area he patrols.



## 2. Applications

warehouse systems  
improving rent a car systems  
monitoring proper service  
supervising personnel work time and place  
monitoring scheduled technical maintenance  
supervising guards  
supervising service producers  
supervising drivers  
monitoring rent systems  
airport protection and supervising workers  
hotel protection and supervising workers  
protection for other public institutions



## 3. Functional Diagram



## Working Prompts

|                          |                                                                                |
|--------------------------|--------------------------------------------------------------------------------|
| Reading Successfully     | 1 vibration and the LED screen shows "Reading Successfully" and recording time |
| 2.4G Searching           | 1 vibration and LED Screen shows "2.4G Searching"                              |
| 2.4G Searching Failed    | 3 vibrations and LED Screen shows "2.4G Searching Failed, Please researching " |
| The data is almost full  | 2 vibrations and the LED screen shows "Reading Failed, please upload".         |
| The data is already full | 6 vibrations and the LED screen shows "Reading Failed, please upload".         |
| Wrong Clock Data         | 3 vibrations and the LED screen shows "Reading Failed, please timing".         |
| Wrong Storage Data       | 4 vibrations and the LED screen shows "Reading Failed, please read again".     |



## 4. Technical Information

| Model                 | WM-5000V8                                                                                                                                        |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Physical              | Metal body with silicon shell outside                                                                                                            |
| Dimensions            | 148mm×42mm×34mm                                                                                                                                  |
| Weight                | 243g                                                                                                                                             |
| Tag reading           | RFID                                                                                                                                             |
| Frequency             | 125KHz and 2.4G                                                                                                                                  |
| Reading Distance      | 125KHz : 3-5cm<br>2.4G ≥ 30m                                                                                                                     |
| Operating Temperature | -40°C to +85°C                                                                                                                                   |
| Storage Capacity      | 60,000 pieces records                                                                                                                            |
| Memory                | 16Mb Flash ROM                                                                                                                                   |
| IP rating             | IP67                                                                                                                                             |
| Charging time         | 2.5 hours                                                                                                                                        |
| Battery               | 3.7V Lithium Recharge Battery                                                                                                                    |
| Standby Time          | Reading checkpoint 500 times a day , can be used for 3.5 days, Reading checkpoint 500 times and flashlight 2 hours in a day be used for 26 days. |
| Communication         | T8 Download Station                                                                                                                              |
| Humidity              | 10% to 90% non-condensing                                                                                                                        |

## RFID Tags

| Model  | Checkpoint                                                                          | Frequency | Dimensions     | Weight |
|--------|-------------------------------------------------------------------------------------|-----------|----------------|--------|
| WM-28B |    | 125kHz    | 6.6mm*27.7mm   | 1.7g   |
| WM-226 |    | 125kHz    | 36mm*28mm*6mm  | 3.8g   |
| WM-30A |    | 125kHz    | 30mm*4mm       | 2.8g   |
| WM-70A |   | 125kHz    | 76mm*56mm*10mm | 19g    |
| WM-70Y |  | 125kHz    | 76mm*56mm*10mm | 19g    |

## 5. System Components

- 1) WM-5000V8 reader
- 2) Standalone Software
- 3) Magnetic cable
- 4) Charger
- 5) Holster
- 6) Checkpoint Tags(optional purchase)
- 7) Guard Tags(optional purchase)
- 8) T8 Download Station(optional purchase)
- 9) Event wallet (optional purchase)
- 10) 2.4G Tags(optional purchase)



## Technical Specifications

### WM-5000T8

|                        |                              |
|------------------------|------------------------------|
| Communication Distance | ≤10m                         |
| Reading Distance       | 1-3cm                        |
| Communication Speed    | 5000 records per minute      |
| Communication          | 2.4G+USB<br>(CH341H USB2.0 ) |
| Frequency Range        | 2400MHz ~ 2483.5MHz          |
| Operating Temperature  | -40°C to +85°C               |
| Humidity               | 10% to 90% non-condensing    |

### WM-2.4GC

|                       |                                        |
|-----------------------|----------------------------------------|
| Card Number           | 8 hexadecimal number                   |
| Battery               | CR123A-3.0V Disposable Lithium Battery |
| Reading Distance      | ≥30m                                   |
| Frequency Range       | 2400MHz ~ 2483.5MHz                    |
| Operating Temperature | -40°C to +85°C                         |
| Humidity              | 10% to 90% non-condensing              |
| Standby time          | 3 Years                                |

## Working Prompts

### WM-5000T8

|                                     |                                            |
|-------------------------------------|--------------------------------------------|
| Power on                            | The read light is always on                |
| 2.4G Connecting                     | The blue light flashes                     |
| 2.4G data transferring ,delete data | The blue light quickly flashes             |
| 2.4G disconnecting                  | The blue light flashes 1 second and 1 beep |
| Searching tags                      | The yellow light flashes                   |
| Reading tags                        | The yellow light flashes and 1 beep        |

### WM-2.4GC

|           |                                           |
|-----------|-------------------------------------------|
| Power on  | 3 flashes                                 |
| Power off | The light off                             |
| Standby   | The light flashes 1 time during 5 seconds |

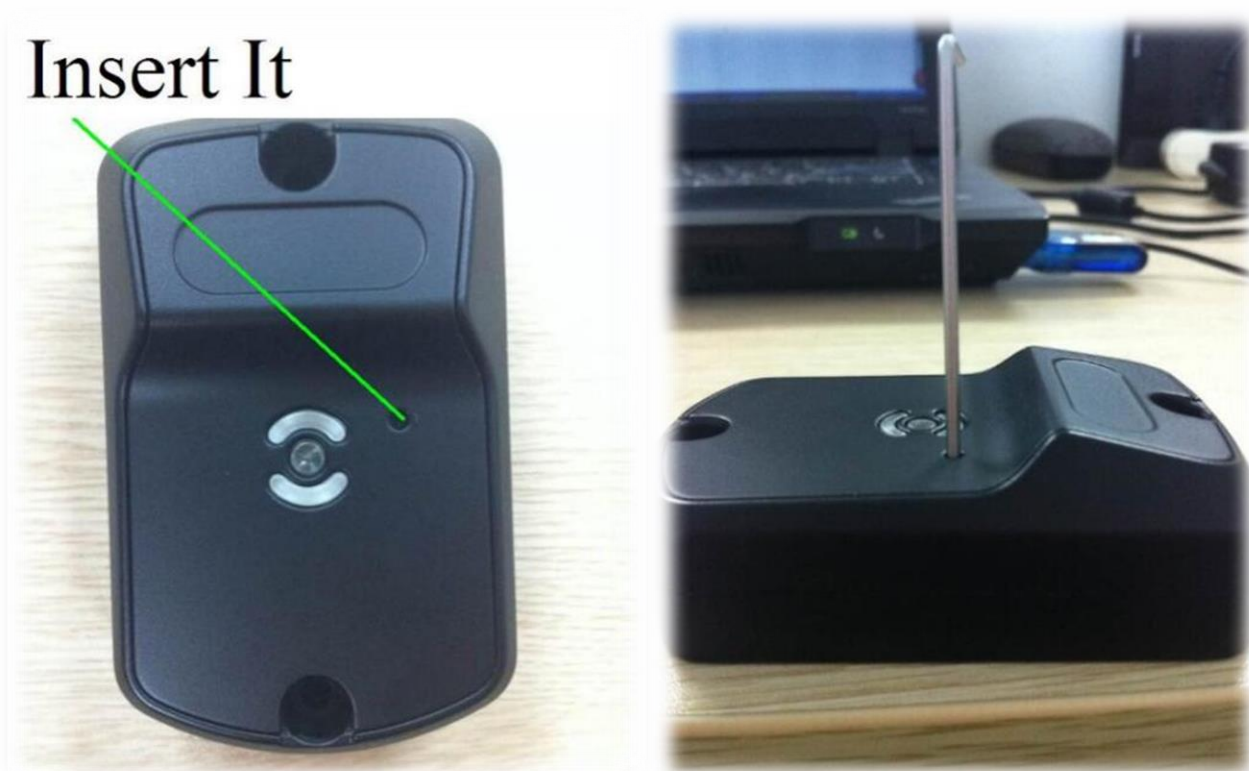
## How to use 2.4G Card?

### 1) Start the 2.4G card

- 2.4G card is off usually when you receive it in case power consumption since there is battery inside. Battery will be used for about 2 years once it is on.
- Before installing it on the wall, we need start it --- using little wrench we provided together with the card to insert the hole, you will feel to touch a rubber button inside and once it is on, you will feel there is a little “click” feeling...
- Once the red light is blinking, and later it will be keep blinking every 5 seconds, that means the card is on.
- The hole is just like an on/off button.
- Please note: DO NOT use too sharp thing to poke the hole heavily to break it.

Please check below picture

Insert It



- 2) Start 2.4G function for 5000V8 reader
  - 5000V8 can read both 125Khz card and 2.4G card.
  - reader will keep scanning 125K tag at any time since it is always in "on" situation because this will not take so much power...
  - while once reading 2.4G, we need press the LCD screen and once the "JWM" logo showing on the screen, do not move finger from the button, keep pressing it for 2 seconds, then 2.4G reading function is starting
  - when reader scan 2.4G card successfully, it will show "read ok" on the screen with one vibration, then screen will shut down.



## 6. User Flow

- 1) Make a sketch of the checking places that the guard needs to check.
- 2) Install tags on each checking place.
  - \*The round shape tag can be stuck or screwed on the wall.
  - \*For the cylinder glass tag, make a hole in the wall, and then put it inside and cover it.
- 3) Install software and make settings in software
- 4) The guard uses the reader to starts patrol, he needs go to each checking place and uses the reader to scan tags installed on the wall.
- 5) The guard will take the reader back to the control center and use T8 download station to upload data to software.



### Installation

