

JWM Hi-Tech Development Co., Ltd.

Real Time Guard Tour System

WM-5000V5

User's Manual



I. System Introduction







1. Hardware quick start guide

1. Before use the equipment, you should install the software to the computer and have the initial setup, for example: time synchronization, communication test, register tag ID number and name it as a place name, make route, set guard name and set sending message mode etc. Then through USB cable, download all these information to the reader.
2. After preparation work, then the patrolling guard can start patrol. He takes the reader and read his own Guard ID to identify himself with the system
3. Then the guards go to the checkpoints, the Reader will automatically read each signal card (EM tag) and no need touch it. When reading successfully, a flash of the red indicator light accompanied by a “beep” means that a reading has been made. Then through download station, the patrol records can be uploaded to control center.

2. Applicants (Tour Areas)

- a. Ideal for Security Personnel, monitoring Factories, Offices, Hotels, Car parks, Shopping centres, Leisure park facilities and more...
- b. Rounds Personnel, Cleaning rounds, Vending facilities, Amusement machines, Arcades, Care workers, Health visitors, Outpatient visiting...
- c. Service Technicians, Health & safety, Tracking Electrical safety, Fire Extinguisher checks, Safety, Goods issue, Inventory, Asset tracking etc...

II. System Components

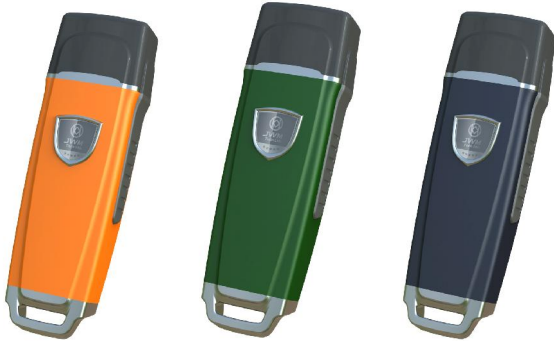
1. Reader 
2. USB cable 
4. Signal cards (EM tags) 
5. Cylinder RFID tag 
6. Guard ID key 
7. Software 

8. event wallet



III. WM-5000V5

1. Reader



Features:

Military component

Silicon tank, metal body with rubber shell outside, super durable
IP67 standard

Pogo pin USB connector, high download speed

Non-contacting reading of RFID tag

completely water proof and guard proof

Sabotage absorbent, resistant to electrical shock

Super storage capacity 4Mb Flash, 60000 records

Power off protection

REG colorful LED display

Reading distance ≤ 5 cm

Brilliant exterior design, easy operation

Real time internal clock

Low power consumption and long battery life, 270 000 continuous reads

Technical Information:

	WM-5000V3
Physical	metal body with rubber shell outside
Demensions	130mm 40mm 28mm
Working Frequency	125KHz

Operating Temperature	-45° to +85° C
Humidity	10% to 90% non-condensing
Memory	4Mb Flash ROM
Storage Capacity	60000 pieces records
Battery	3.7 V Lithium Recharge Battery, 800m Ah;
Signal Card Detection	Auto induction card-reading
Card Reading Distance	3cm---5cm
Communication	Pogo pin USB cable 57600 BPS, 4000 records per minute
Weight	150g

Functions:

WM5000V3 is an updating product on basis of 5000V+, with adoption of touch point USB contact instead of normal USB port, makes the device more durable and waterproof. it works with RFID tag, reading information from the tags, then upload all the patrol records to the computer by USB cable after the whole guard patrol. The information records can demonstrate the guards patrolling activities.

2. EM ROUND SHAPE TAG



Features:

EM signal cards are constructed to withstand intentional sabotages, which can be read from long distances(0-12cm) and operated in wide temperature ranges. They are also completely waterproof, and can be sealed inside non-metalic material walls; Button, circle, keyring, nail and cylinder-shaped cards used as guard tour checkpoints. These can be installed either on or beneath wall surfaces; Key chain-attachable type personnel / incident card used to identify patrol personnel or events and incidents. Its working frequency is 125KHz

Technical Information:

	EM signal card
Physical	Water-resistant ant, ASB plastic case
Shape	Round shape, etc.
Weight	About 2 g
Operating Temperature	-20° C to +50° C
Working Frequency	125KHz
Battery	None
Data Storage	Unique 64-bit serial number (read-only)

3. POGO PIN USB communication



This pogo pin USB cable can be used to connect between the reader and PC, which is according with DY/T1019, IEC61156, ANSI/EIA/TIA-568 standard.

4. Event wallet



Event wallet are designed to hold the signal cards(RFID tags) that has been pre-identified the number of the cards by the reader first, and then name those cards by different events which usually happens during the patrol at certain checkpoints(for example, like door open, power off, ect.) by the software. The guard take the reader and also the event wallet to begin a guard patrol. It's better that to put a special label with the same event name on the correct card, then it will be more easier for the guard to identify the signal cards in time of reading the cards.

4. Battery Charging



Recharge:

* 2-3 hours each charging time

* Connect the reader to charger with USB cable, then you will find red indicator will be steady on, it means the battery is charging, when battery fully charged, red indicator turned to green.

IV. Operation Flows

- >1. **Software setup**
- > 2 **initialize the reader by connecting with computer first**
- > 3. **download guard name, station name and event to the reader**
- > 4. **choose guard name, start to patrol**
- > 5. **read tags installed on places, read tags inside the event wallet if any incident happened**
- > 6. **download all the records to the computer via USB cable.**
- > 7. **use software to make a patrol analysis and statistics.**

a. After software installation and setup, all the EM tags have been labelled names (checkpoint names, personnel names or events), which are as same as being assigned in the software. Then fixing checkpoint signal cards to the proposed positions. Make sure that, the correctly named EM tags will be installed in the correct places of the proposed tour.

V. Notice

1. Status Indications

- a. 1 vibration With 1 flash of blue indicator ----- Reading is successful
- b. red indicator flashes every 3 seconds----- The battery is low and needs to be changed ASAP
- c. red indicator light on means battery is charging
- d. green indicator light on means battery is fully charged
- e. 3 vibrations with 3 flashes of while indicator ----- There is an time error within the reader. It needs to be connected with the computer, have its time calibration.
- f. 6 vibrations with 6 flashes of while indicator ----- The reader is full, no more records can be read. For this case, please make a full download of data to your PC and then erase the memory to reset, now your reader will be ready for the next load cycle of 60000 new recordings.
- g. 4 vibrations with 4 flashes of while indicator -----something wrong with data storage.

2. Warning

- a. it is strictly forbidden burying the Reader or immersing it into liquid.
- b. it is strictly forbidden hitting or breaking the Reader and EM signal cards intendedly.
- c. it is strictly forbidden opening the Reader, or taking apart it into pieces except changing the battery.
- d. it is strictly forbidden placing the Reader in wet environment, in order to keep it from water or other liquids.
- e. it is strictly forbidden drying or warming EM signal cards by the fire.
- f. Keep them away from corrosives, detergent or chemical substances. Use alcohol to clean them.
- g. Make sure that the guard cards are not read in the middle of patrol routes, which can cause the data will be showed by the software that a no-name guard have the former part patrolling.