

User Manual CMP-200

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English

Thank you for choosing our product. Please read the instructions carefully before operation. Follow these instructions to ensure that the product is functioning properly. The images shown in this manual are for illustrative purposes only.



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About the Company

ZKTeco is one of the world's largest manufacturer of RFID and Biometric (Fingerprint, Facial, Finger-vein) readers. Product offerings include Access Control readers and panels, Near & Far-range Facial Recognition Cameras, Elevator/floor access controllers, Turnstiles, License Plate Recognition (LPR) gate controllers and Consumer products including battery-operated fingerprint and face-reader Door Locks. Our security solutions are multilingual and localized in over 18 different languages. At the ZKTeco state-of-the-art 700,000 square foot ISO9001-certified manufacturing facility, we control manufacturing, product design, component assembly, and logistics/shipping, all under one roof.

The founders of ZKTeco have been determined for independent research and development of biometric verification procedures and the productization of biometric verification SDK, which was initially widely applied in PC security and identity authentication fields. With the continuous enhancement of the development and plenty of market applications, the team has gradually constructed an identity authentication ecosystem and smart security ecosystem, which are based on biometric verification techniques. With years of experience in the industrialization of biometric verifications, ZKTeco was officially established in 2007 and now has been one of the globally leading enterprises in the biometric verification industry owning various patents and being selected as the National High-tech Enterprise for 6 consecutive years. Its products are protected by intellectual property rights.

About the Manual

This manual introduces the operations of CMP-200 product.

All figures displayed are for illustration purposes only. Figures in this manual may not be exactly consistent with the actual products.

Document Conventions

Conventions used in this manual are listed below:

GUI Conventions

For Software				
Convention	Description			
Bold font	Used to identify software interface names e.g. OK , Confirm , Cancel			
>	Multi-level menus are separated by these brackets. For example, File > Create > Folder.			
For Device				
Convention	Description			
<>	Button or key names for devices. For example, press <ok></ok>			
[]	Window names, menu items, data table, and field names are inside square brackets. For example, pop up the [New User] window			
1	Multi-level menus are separated by forwarding slashes. For example, [File/Create/Folder].			

Symbols

Convention	Description
	This implies about the notice or pays attention to, in the manual.
·	The general information which helps in performing the operations faster.
*	The information which is significant.
•	Care taken to avoid danger or mistakes.
\triangle	The statement or event that warns of something or that serves as a cautionary example.

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1 Product Introduction

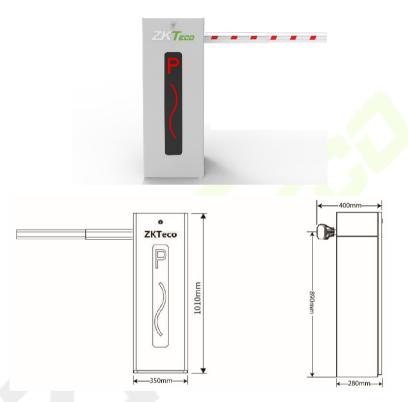
The Automatic Barrier Gate CMP-200 series is a modern barrier gate technology combined with the practical implementation of automated barrier gate products in the industry. This product's appearance and structure design are adapted to the market, and the industry requirements and the traffic light indication has the humanized experience. As an economical automatic barrier gate device, the user can adjust the telescopic straight boom according to the actual requirement to meet various application scenarios.

2 What is in the box

The box comes with;

- The barrier gate*1
- The boom*1
- The remote control*2
- The barrier fixed screw*4
- The boom fixed plate*1
- The boom fixed screw*2
- The key*2
- The user manual*1

2.1 Appearance and Dimensions



Left and Right Cabinet View



L: The cabinet on the left

R: The cabinet on the right

3 Product Installation

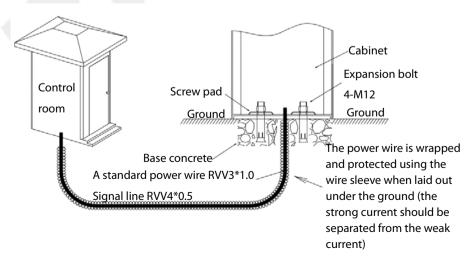
3.1 Installation Precautions

 Install the parking barrier on level ground. If the ground is not firm and steady, then a cement base is required before installation.

- The boom can be cut, but cannot be increased. Cut the boom to the required length, and then set the spring to balance and achieve the new height. Two plastic nuts that lie in the bottom of the spring is designed for adjusting the new balance.
- Do not change the wire connection inside when the power is on.
- The GND should be connected to the cabinet for secure protection.

3.2 Cable Embedding

- Prepare φ25 protective sleeve and cable in advance.
- Route the cables to be connected through the protective sleeves.
- Use a tool to open the cable board in the ground.



3.3 Boom Installation

Boom Installation Procedure

• Pull the barrier arm out from the main boom, and then fasten it with 2 screws as shown in Figure 1.

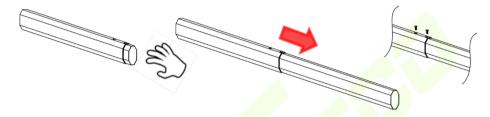


Figure 1 Connect the main boom with vice together by 2 screws

Install the boom to the chassis (the frame), as shown in Figure 2.

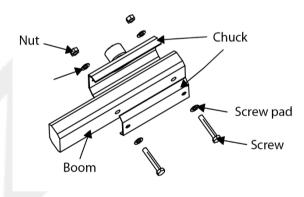


Figure 2 Installing the Boom to the Chassis

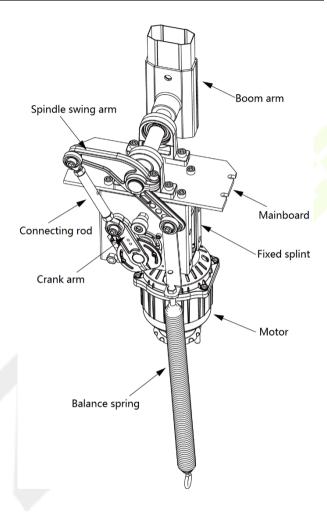
4 Technical Parameters

Power adaptability	Input voltage AC 220V/110V±20%, 50/60Hz	
Rated power	100W	
Max power	120W	
Remote control distance	Open field≤30m	
Remote control frequency	430MHZ, Learning code	
Chassis material	Cold gadolinium steel plate	
Boom material	Aluminum	
Working temperature	-25°C~+75°C	
Working humidity	<90%RH (no condensation)	
Protection grade IP54		
Shell size (W*D*H)	1010*350*280 (mm)	
Package size (W*D*H)	1100*375*430 (mm)	
Chassis net weight	45KG	
Chassis gross weight		
Boom type (The mainboard is	Telescopic straight boom, boom length≤4.5m, red and white color, the rise/fall speed is 3s	
the same)	Telescopic straight boom, boom length: 4.5m~6m, red and white color, the rise/fall speed is 6s	

5 Functions

- The opening and closing angles are 90°±2°.
- Up, Down and Stop operations interfaced with standard switch input.
- Anti-smash function: Supports loop detector, infrared detector, and radar functions.
- Controller timeout protection: When the boom operation is abnormal and exceeds the rise and fall time, the boom will stop the operation automatically.
- The barrier gate can be controlled by wireless remote control and wired control buttons to meet the needs of different field applications.
- It supports traffic lights with AC voltage and DC voltage of 5V or 12V.
- Mainboard built-in fuse, secure from overvoltage.
- Supports the connection of LPR, UHF reader controller, and other devices to recognize and control the automatic door opening.

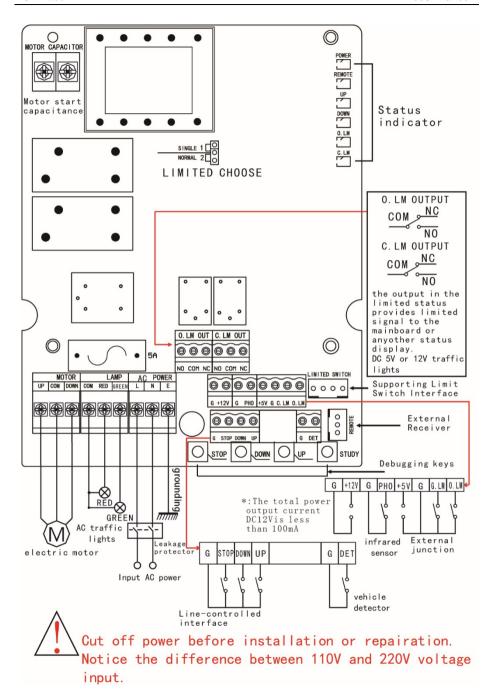
6 Movement Transmission Structure



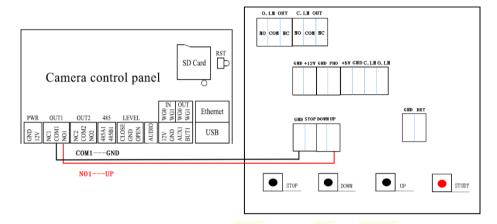
7 Control Board Wiring Installation

- Remove the wiring cover of the barrier gate main controller.
- Refer to the wiring diagram of the barrier gate controller and connect the lines one by one firmly. (Note: Power must be disconnected before installation or maintenance.)
- After checking and confirming reliable wiring, install the wiring cover back.
- Install the Desktop Remote Control: Place the Desktop Remote Control on the table in the guard room or attach it to the wall and plug-in the power.

The wiring diagram of the controller is as follows:

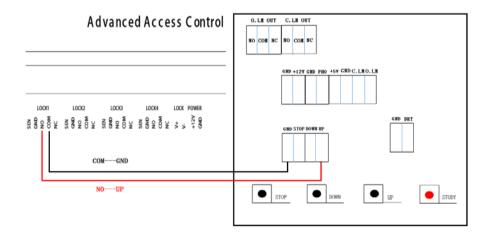


Connect to the LPR camera:

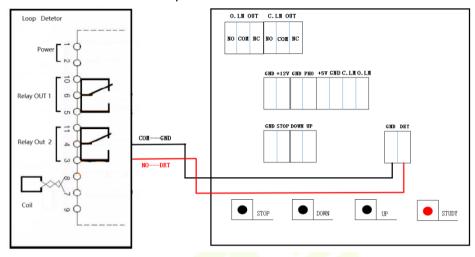


Connection with the UHF controller.

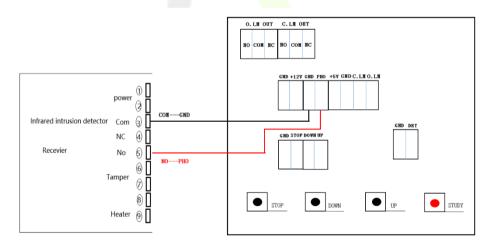
Note: The Reader1 and 2 of the inbio260 controller are corresponding to LOCK1, Reader3, and 4 are corresponding to LOCK2.



Connection with the loop detector.



Connection with the infrared detector

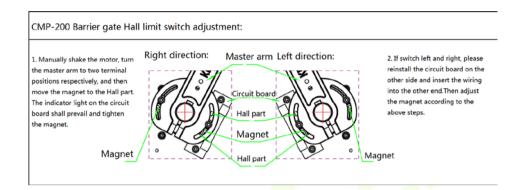


8 Commissioning Instructions

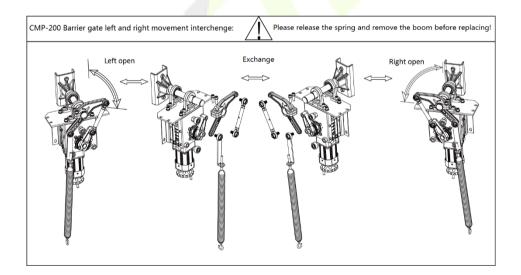
1. Check all the connections and make sure the connections are correct before connecting the power.

- 2. Please use the remote control or press the switch button on the mainboard to test whether the machine is running normally.
- Warning: Be sure to install the corresponding length of the boom before the power-on test. To avoid accidents, no one is allowed to stand under the boom during testing.
- 4. In the process of boom falling, short connect the infrared detector and public interface, so that the falling boom will start rising immediately, and will stop automatically after the rising limit. This is mimic the effect of infrared detectors.
- 5. In the process of boom falling, short connect the loop detector and public interface, the falling boom is transferred to rising immediately, which will fall automatically after the rising limit and stop automatically after the falling limit. In the process of boom rising, short connect the loop detector and public interface, the boom will fall automatically after the rising limit and stop automatically after the falling limit. In the open state, short connect the loop detector and public interface; the boom will automatically fall to the limit and stop. This imitates the effect of the loop detector.

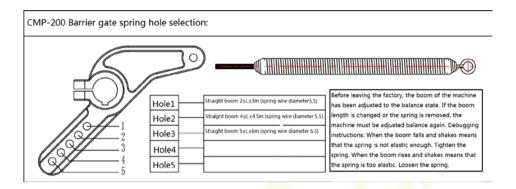
6. Barrier gate Hall limit switch adjustment:



7. Left and right movement interchange method:



8. Barrier gate spring and the corresponding boom length type:



Study/Delete Remote Control Code

Study code:

- In the **Stop** state, press the "**Study**" button on the main controller until the REMOTE indicator is ON and then release it.
- Then press any button on the remote control, the REMOTE indicator turns
 OFF. In this process, the code of studying will be completed.

Delete code:

- To process the Code deletion, in the STOP state, press the Study button on the main controller until the REMOTE indicator is ON, continue to press the 'Study' button, and hold on until the REMOTE indicator is OFF.
- Note: All the codes will be deleted in this process).

Note: One barrier can only study up to 20 remote controls. The matching remote control will be studied already, and there is no need to read again.

9 Troubleshooting

No.	Troubles	Fault Cause	Solution
1	The POWER indicator is not on, and the button is not responding.	1) The power supply is not connected.2) The fuse blew off.	 Connect the power. Replace the fuse.
2	The POWER indicator is on, no response by remote control.	 The remote-control code is wrong. Poor receiving module. The same frequency interference exists. 	1) Recode. 2) Replace the receiving module. 3) Change to other frequencies.
3	The POWER indicator is on, the boom UP and DOWN indicator is normal, the motor is not running.	 The motor wire is open or incorrectly connected. The motor is stuck. 	1) Connect the motor wire. 2) Manual release motor.
4	Unable to rise or fall boom to limit.	1) The limit line is misconnected.2) Limit switch is broken.	 Reconnect the rising and falling limit line. Replace limit switch.
5	The remote-control handle is not responding.	1) The battery of the handle is low.2) Handle broken.	 Replace battery. Replace the handle.



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