

BIOCAM Series Product Installation Guide

Version: 1.0 Date:2014.3

⚠️ Precautions



Do not connect when power is on!

- **DO NOT connect cables when the power is on.**
- **Working Conditions**

Operating temperature: -10 °C ~50 °C. **Operating humidity:** 10% ~80%.
- **Communication Distance**

When communication distance exceeds 80 meters, please use relay device.
(Remarks: under the POE[Optional] mode, if transmission distance is greater than 60 meters, please use a repeater.)

- Keep the lens clean. If the lens is too dirty, use a tidy and soft cloth to clean the lens.
- Do not point the camera against an object emitting strong light for a long time. Otherwise, the image sensor of the camera may malfunction, which leads to absence or distortion of images.

☺️ **Tips:** The product is applicable only to indoor installation. Do not install the device outdoors; otherwise, the warranty is not granted.




Please use repeater when exceeding 80m.



DC12V/1.5A

- **Power Requirement**

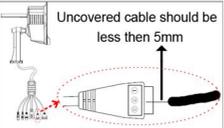
The power must be **DC 12V**, rated current ≥ 1.5 A.

- All uncovered cable should be less than 5mm, to avoid exceptional device damage. Recommended horizontal distance from the user to face recognition camera is about 3 meters. (Applied to height range 1.5~1.9m)

- **Suggest Condition**

Install the device indoors at least 10 feet (3m) away from windows, and 6.5 feet (2m) away from light fixtures. Preferable light intensity should range between 0~800 LUX

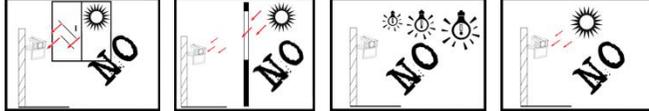
- **The area in which face recognition can be implemented is defined as follows:** the left-to-right distance is about 0.35 m, and the front-to-rear distance is about 1 m. (For details, see Appendix > Face Recognition Area)



Uncovered cable should be less than 5mm



- **Installing positions that affect the use effect of the device**



- **Reference luminance of the light source in the installation environment**



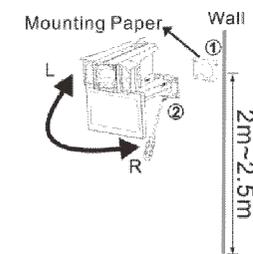
10Lux
1200+ Lux
50-800Lux

Chapter 1: The Installation of Device

1. Install Device

● Wall Mounting

1. Attach the installation template to the wall where you want to mount the camera and drill holes. (The Mounting Paper is 2.4 meters off the ground; according to needs, you can adjust it to 2~2.5 meters)
2. Fix the camera on the wall using four screws. (The device can be rotated left to right so that screws can be conveniently fastened.)

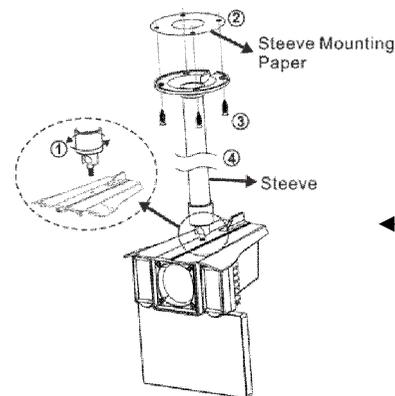


Floor

● Top Mounting

1. Connect the steeve to the device
2. Attach the steeve mounting paper onto the wall or ceiling where the device will be installed. Drill holes according to marks on the steeve mounting paper
3. Use screws to fix the steeve
4. Adjust the length of the steeve to ensure that the **Face Recognition Camera** is 2.4 meters off the ground. (Note: according to needs, you can adjust it to 2~2.5 meters)

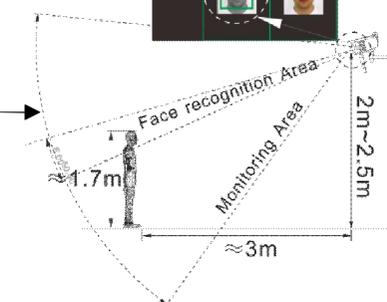
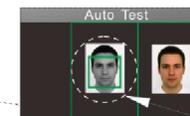
☺️ **Note:** The steeve is not included in the standard configuration. The device supports three types of steeves that are respectively 40 cm to 60 cm, 60 cm to 80 cm, and 80 cm to 120 cm long.



2. Adjust the camera to the best angle

After successful installation of the device, adjust the camera to the best angle to implement face recognition and video surveillance. Detailed adjustment methods are as follows:

- (1) Press the [F8] key on the Remote Control and the **Auto Test** interface appears.
- (2) The angle adjuster stands with an about 3 meters' horizontal distance from the **Face Recognition Camera**. (**Note:** That the adjuster must be about 1.7 meters high.)
- (3) Rotate the device up, down, left, and right to ensure that the facial image display inside the green box on the **Auto Test** interface (as shown in the figure on the right); that is to adjust the camera to the best angle.



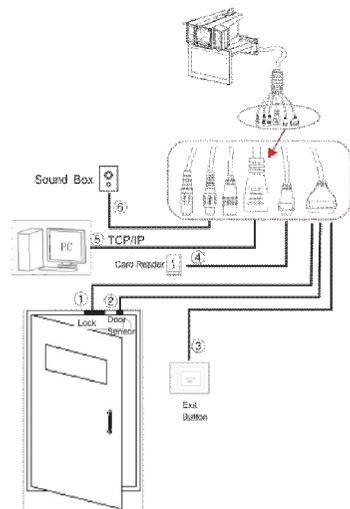
📌 Note:

- (1) In order not to affect the effects of the device and to prevent repeated disassembly of the device, ensure that you connect the device after the camera angle of the device is adjusted to the optimum position. (For details about how to connect cables, see **Chapter 2** and **3** in this guide.)
- (2) Users can adjust the human face parameters of the device according to the actual installation scenario and requirements. These parameters include the 1:1 matching threshold, 1: N matching threshold, exposure, and quality. For details about how to set these parameters, see the *BIOCAM Series Product User Manual* in the CR-ROM that is delivered with the device.

Chapter 2: Function Connection Diagram

Access Control Function Intro:

- ① When a registered person is verified; the device will output a signal to open the door.
- ② Connect **Door Sensor**.
- ③ Can connect an external **Exit Button**. Convenient to open the door from the inside.
- ④ Can connect an external **Card Reader**.
- ⑤ Use the ZKivision Client software to manage multiple devices via TCP/IP to network with PC.
- ⑥ Can connect a **Sound Box** for voice play.



Chapter 3: Connection Terminal

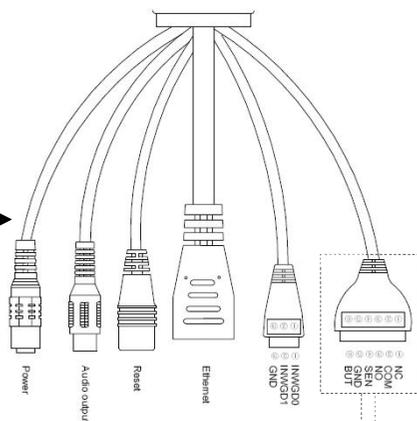
1. The intro for device terminals

Power interface: Connected to the standard power adapter. Do not use other power supplies; otherwise, the device may be damaged.

Network interface: It is a 10/100M self-sensing Ethernet interface, through which the device can be connected to various network devices, such as switches, routers, or hubs.

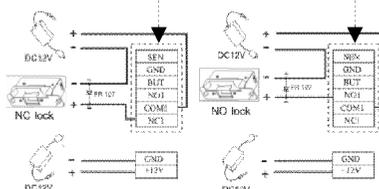
Audio output: Connects with external play devices (such as Sound Box) to realize broadcast function.

Reset button: Long press this button for more than 5 seconds when power on for 40 seconds, the camera will recover to default configuration.



2. Connect with Lock

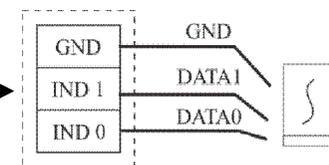
The device can connect with **NC** or **NO** lock by connecting to the corresponding terminal. For the lock is open when power on and close when shut down, please use **NO** terminal. For the lock is close when power on and open when shut down, please use **NC** terminal. (**Note:** Device and lock don't share power supply.)



3. Wiegand Input

The device has Wiegand input function, can connect the external card reader. Device and card reader can be installed respectively inside and outside of the door, control the lock together, control out & in.

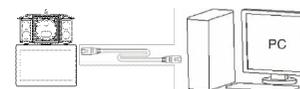
- (1) The distance between device and access controller or card reader shouldn't be over 90 meters (If a longer distance is needed or there is interference in using environment, please use Wiegand signal delay.)
- (2) To ensure the stability of the Wiegand signal, the device must share the GND with controller or Wiegand reader.



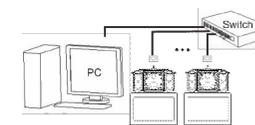
Chapter 4: Device Communication

The device has two types of communication methods to communicate with PC software. Exchange data and remotely manage.

① Connection between device and PC via twisted pair cable.



② LAN Connection



1. Connect the device to network and power on it.
2. Change the IP address for PC to make sure the PC and the device's IP address are in the same network segment.
3. Run the browser. Enter the device's IP address (for example, <http://192.168.1.88>) in the address bar, and press Enter key to enter the Login interface.
4. Enter the User Name and Password and click [Login] button to enter the Preview interface, then plays the real-time videos collected by the camera.

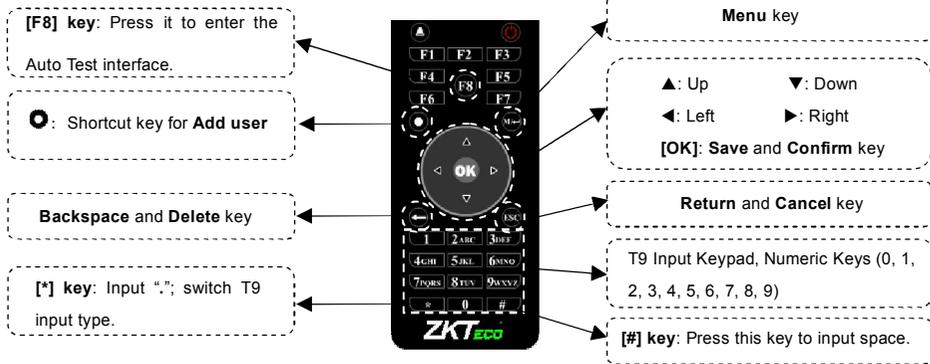


Notes:

- (1) If you use a browser to access the device for the first time, you need to download and install the ActiveX (**ActiveXPlugin.ocx**). Enter the device's IP address in the Address Bar and press Enter key, the ActiveX download window will popup. Then follow instructions displayed on the ActiveX download window to download and install the ActiveX. For details about how to use a browser for video surveillance, see the Web Server User Manual, which is available on the disk delivered with the device.
- (2) Configure the IP address **before** installing the device. For more information, please see the **BIOCAM Series Product User Manual** on the disk delivered with the device.



1. Instruction of Remote Control keys



☺ Tips: If the device is in dormant state, you can press any key on the Remote Control to wake up the device.

2. Add User

Press **○** key on the Remote Control to enter the Add user interface, shown as Figure 1:

Face: Enroll a user's face.

User ID: Enter a user ID. 1- to 9-digit user IDs are supported by default.

ID card: Enroll a user card.

Role: Set the rights of a user. A user is set to **(Ordinary) User** by default and can also be set to **Administrator**. **(Ordinary) Users** are only granted the rights of facial verification, while **Administrators** are granted the access to the main menu for various operations apart from having all the privileges granted to **(Ordinary) Users**.

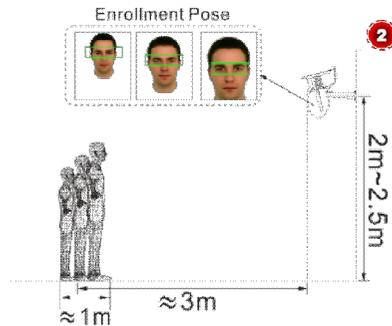


● Enrolling Face

(1) On the Add User interface, press [OK] key to enter the Face enrollment interface.

(2) According to the prompt appears on the device's screen (Focus eyes in box, shown as Figure 2). During face registration, you need to move from back to front to adjust the position of eyes. Display the face in the centre of screen as possible.

(3) If your facial image is enrolled successfully, the system will display a prompt message and automatically return to the Add User interface.



● Enrolling Card

(1) On the Add User interface, press [▼] key on the Remote Control to move the cursor on the Card button, and then press [OK] key to access the Enroll Card interface,

(2) The [Punch Card!] interface pops out as shown in Figure 3. Swipe your ID card properly in the swiping area.

(3) If the card passes the verification, the device displays a prompt message "Read Successfully! Card No.: *****", as shown in Figure 4, and returns to the Add User interface.



3. Verification Modes

● 1: N Facial Verification

(1) Compare the facial in a proper way. (Same as enrolling Face) Place the face in the area in which the camera can capture images, the device automatically distinguishes face verification

(2) Comparison of interface display the current image collected by the camera. If the verification is successful, an interface as shown in Figure 5 will display.

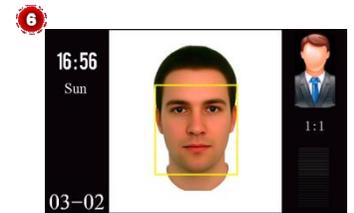


● 1: 1 Facial Verification

(1) Punch a registered ID card on the card reader in the correct way.

(2) After card authentication is passed, the system enters the 1:1 face image authentication mode. At this time, the face image on the interface is highlighted and a prompt "1:1" is displayed, as shown in Figure 6.

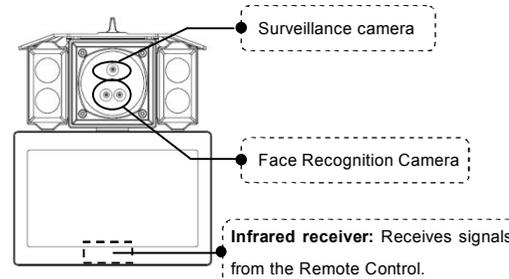
(3) Compare the facial in a proper way. Comparison of interface display the current image collected by the camera, as shown in Figure 5.



☺ Tips: For details about how to use the device, see the *BIOCAM Series Product User Manual*, which is available on the disk delivered with the device.

4. Product Appearance and Face Recognition Area

● Product Appearance



● Face Recognition Area

