

人体测温门禁

Face Recognition &
Fever Screening Terminal

KEDACOM

快速安装指南

Quick Start Guide

一 前言

感谢您购买我司产品，如对本公司产品有疑问或需要，请随时和我们联系。

此内容（手册）的目的是确保用户正确使用本产品，以避免危险或财产损失。在使用产品之前，请认真阅读此手册并妥善保存以备日后参考。如果用户因没有按照以下安全说明，致使设备不能正常使用或损坏等情况，我司恕不负责，感谢您的配合。

二 安全使用注意事项

1. 电源要求

- 请在安装使用设备过程中，严格遵守当地各项电气安全规定。
- 请使用满足安全电压要求的电源，在设备运行之前检查供电电源是否正确。

2. 使用环境要求

- 请在允许的湿度和温度范围内运输、使用和存储设备。
- 请勿将设备置于潮湿、多尘、极热、极冷、强电磁辐射或照明条件不稳定等场所。
- 请勿让任何液体流入设备，以免内部元件受损。
- 请在运送设备时，重新以出厂时的包装进行包装，或用同等品质的材质包装。
- 请勿在运输、存储及安装过程中重压、剧烈震动、浸泡设备。

工作环境	
工作电源	电源：DC12V±10% 功耗：30W Max
温度	10°C ~40 °C
湿度	0%~95% (无凝结)
海拔高度	-60m~3000m
大气压	86kPa~106kPa

3. 使用说明

- 人体测温门禁设备的热成像镜头禁止对着拍摄太阳等高能物体，以免灼伤热成像探测器。
- 测温场所应选择室内（10℃~40℃的环境），避免阳光直接照射红外测温设备和被测者额头，以确保测温的准确性。若需要在室外使用，需搭建临时棚来创造专门的环境。室外环境搭建请参考下图：



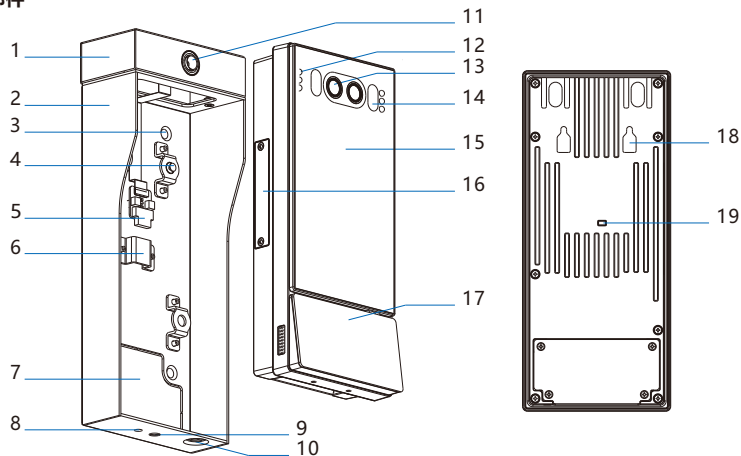
- 人体测温门禁设备上电冷启动，需要热机30分钟后再进行测温。
- 从户外进入室内的人员，建议在测量环境中至少停留2-5分钟后再进行测试。
- 人员应在运动或食用热食物30分钟后测量，且额头处应保持干燥、头发不得覆盖额头。
- 测温通道做到人流可控，人员有序通行，杜绝扎堆。在发现体温异常的人员时，能及时找到本人，进行医学复查。

4. 特别声明

- 本手册中的图示仅供参考，产品请以实物为准。
- 我们尽最大努力来保证本手册信息的正确性，如因升级等原因发生信息修改，恕不另行通知。
- 本手册能作为多个型号产品的使用指导，但不一一列举每个产品的使用情况，请您根据实际产品自行对照。
- 本产品需激活后方能使用，激活时请填写有效邮箱，方便找回密码。
- 为了提高产品网络使用的安全性，建议您设置高强度密码：密码长度必须达到8-16个字符，且至少由数字和字母或特殊字符中的两种或两种以上类型组合而成。请您定期更改用户名的密码，建议每3个月更新一次密码。如果设备在较高安全风险的环境中使用，建议每月或每周更新一次。请妥善保管好您的用户名与密码。
- 将本产品接入互联网需自担风险，包括但不限于产品可能遭受的网络攻击、黑客攻击、病毒感染等，本公司不对因此造成的产品工作异常、信息泄露等问题承担责任，本公司将及时为您提供产品相关技术支持。
- 如需获取最新文档，请至官网下载，官网地址www.kedacom.com。

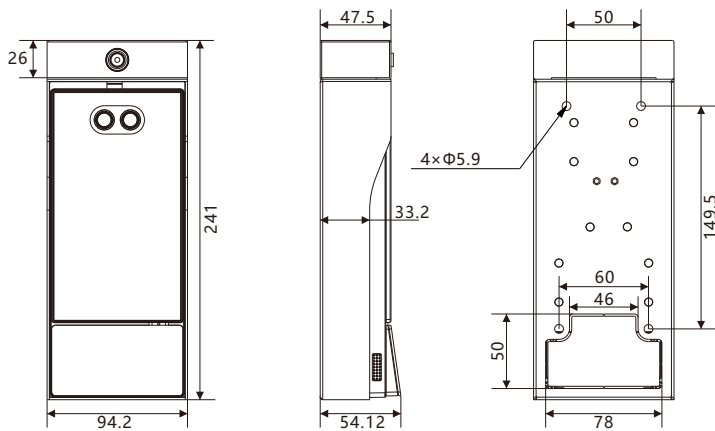
三 外观及接口

1. 外观部件



序号	名称	序号	名称
1	热成像模组	11	热成像镜头
2	防护罩	12	红外灯
3	4*螺孔 (固定墙面)	13	镜头
4	卡钉	14	白光补光灯
5	热成像模组接口	15	屏幕
6	支架	16	Micro SD卡插槽
7	凸形板	17	读卡区
8	三脚架卡孔	18	挂孔
9	三脚架固定螺孔	19	防拆按钮
10	固定螺钉		

2. 设备尺寸



单位：mm

3. 尾线

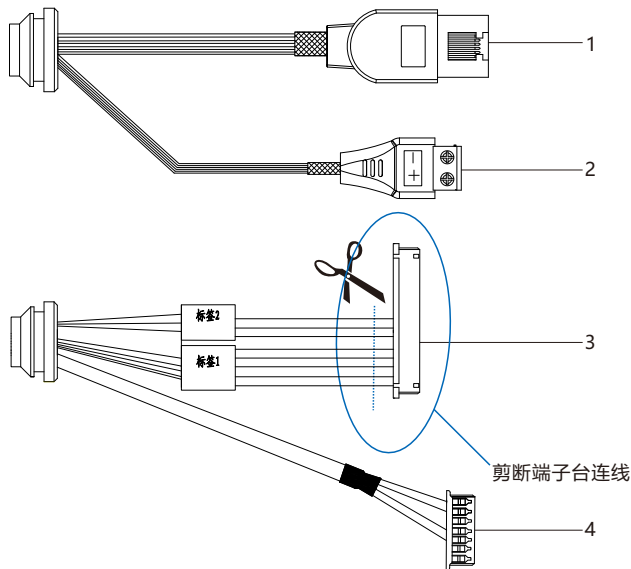


表1 线缆接口介绍

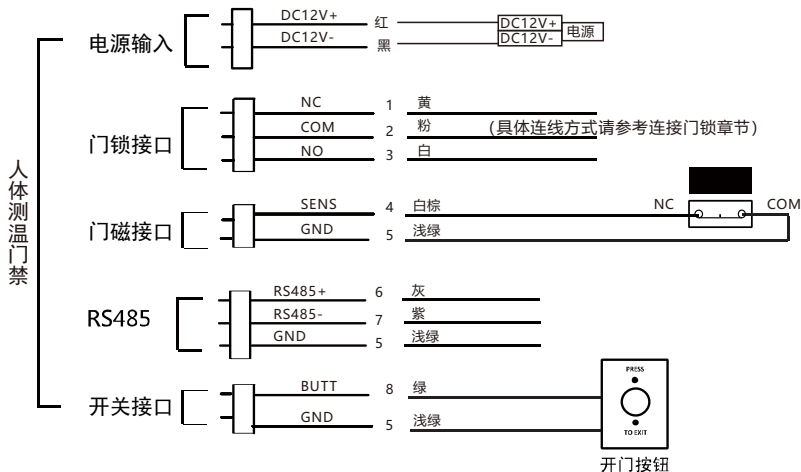
接口	接口名称	功能描述
1	网络接口	连接交换机等网络接入设备
2	电源接口	连接DC12V电源
3	用户线缆组合	包含门锁接口、门磁接口、RS485串口等
4	热成像模组接口	连接热成像模组

表2 用户线缆组合接口介绍

接口名称	序号	颜色	接口名称	功能描述
用户线缆组合	1	黄	NC	常闭型门锁接口
	2	粉	COM	门锁接口
	3	白	NO	常开型门锁接口
	4	白棕	SENS	门磁接口
	5	浅绿	GND	接地
	6	灰	RS485+	RS485串口，与外界设备交互控制，如控制第三方设备
	7	紫	RS485-	
	8	绿	BUTT	开门按钮接口

四 线缆连接说明

剪开用户线缆组合，可连接RS485、门锁、开门按钮、门磁、报警设备、读卡器等。



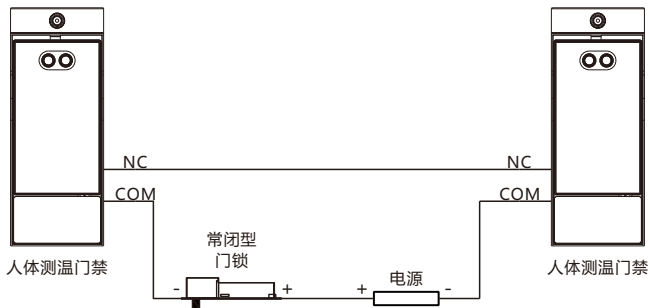
- 【说明】**
- 1) 门锁接口中，NC用于连接常闭型门锁，NO用于连接常开型门锁。常闭型门锁又称阳极锁，断电开门；常开型门锁又称阴极锁，通电开门。
 - 2) 默认状态下，设备门磁输入为常关，门磁接口SENS连接门磁开关NC接口，GND连接门磁开关COM接口；若门磁输入设为常开，则SENS连接门磁开关NO接口，GND连接门磁开关COM接口。进入设备门禁配置界面，即可查看、更改门磁输入。

连接门锁

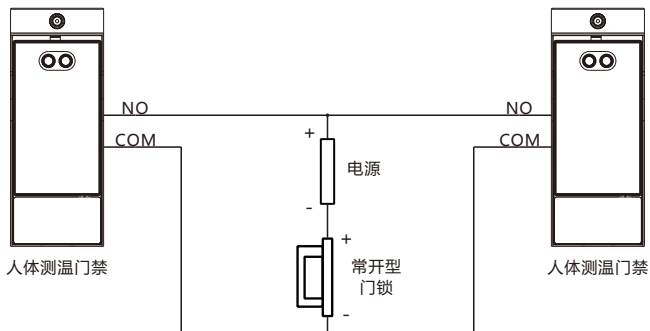
设备支持常开型和常闭型门锁，不同使用环境下，连线方式也有所不同，具体如下：

1) 两侧皆为人体测温门禁。

连接常闭型门锁：

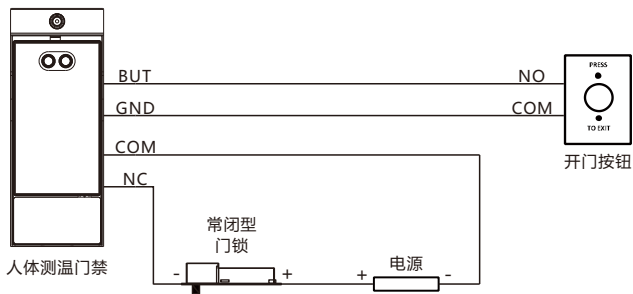


连接常开型门锁：

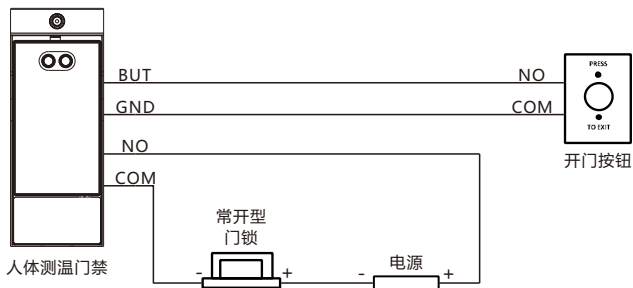


2) 外侧为人体测温门禁，内侧为开门开关。

连接常闭型门锁：

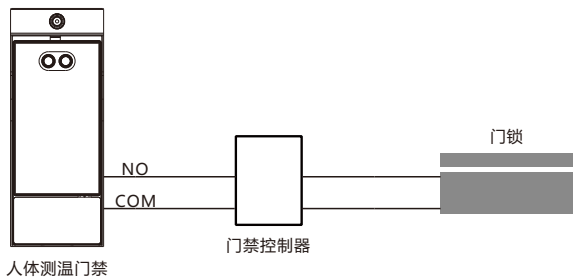


连接常开型门锁：



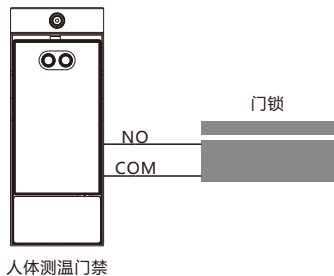
3) 带门禁控制器的接法。

门禁控制器提供两根线，短接执行开门动作。对接人体测温门禁时，将这两根线分别与门禁设备的NO和COM线相连即可。



4) 门锁自带控制器。

门锁提供两根线，短接开门。对接人体测温门禁时，将这两根线分别与门禁设备的NO和COM线相连即可。



五 设备安装

1. 三脚架安装

人体测温门禁可安装在配套的三脚架上，根据需要随时调整位置、高度和镜头朝向。设备配套的三脚架净重约1.4kg，收纳后高度为0.48m，最大工作高度为1.48m。

- 1) 从包装中取出三脚架；向外拨动三脚架顶端的锁扣，取下快装板。



- 2) 将快装板固定螺钉对准人体测温门禁设备底部的固定螺孔，调整快装板位置，使快装板上的按钮卡入设备底部的卡孔中，再沿顺时针方向拧紧螺钉，固定快装板。



- 3) 打开三脚架支架上的扳扣，根据需要调整支架长度，每根支架有三节可调节；将支架调整至合适的长度后，扣上扳扣以固定。



- 4) 展开支架，将横杆向下推到底，顺时针转动旋钮，锁紧三脚架；根据实际情况，将三脚架放置在合适的位置，观察三脚架上的水平仪，微调各支架长度，使气泡位于红圈内。



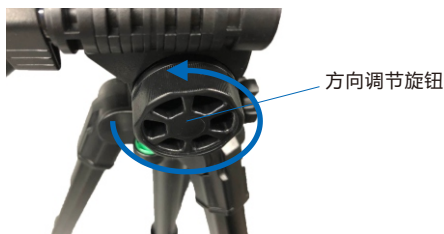
- 5) 如下图所示，向外拨动三脚架顶端的锁扣，将快装板卡入三脚架顶部的卡槽中；松开后，锁扣复位，即可将设备固定在三脚架上。



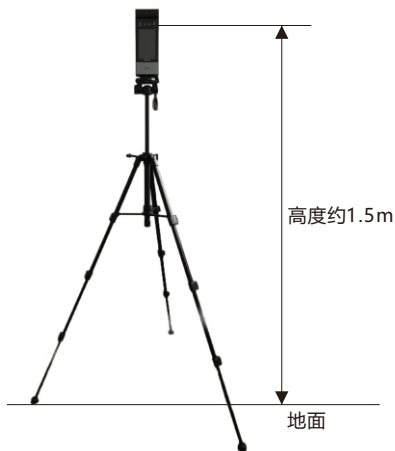
- 6) 固定完成后，沿逆时针方向拧松三脚架上的高度调节旋钮；再旋转把手调整设备高度，顺时针旋转可升高设备，逆时针旋转可降低设备；将设备镜头调节到大约1.5m处，再拧紧旋钮，固定设备。



- 7) 沿逆时针方向拧松三脚架上的方向调节旋钮，即可转动设备，调整设备朝向；将设备调整至合适的方向后，再拧紧旋钮，固定设备。

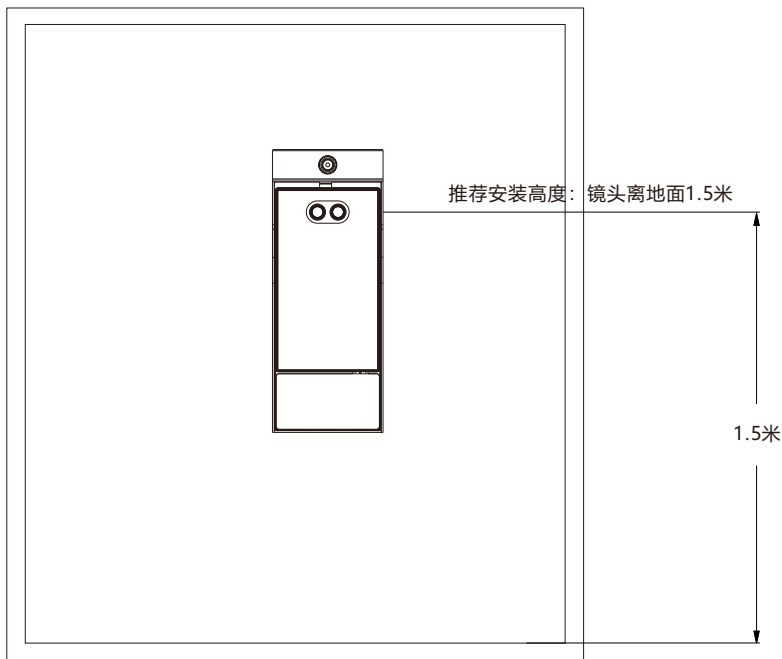


- 8) 安装完成后，撕除屏幕上的透明保护膜。



2. 壁装

【说明】安装之前请确保安装环境符合要求，具体安装环境注意事项请参考附录部分。
若将设备安装在室内，安装处距离光源至少2米，距离窗口及门口至少3米，避免阳光直射。
请保持环境光源照度大于100Lux。
推荐安装高度为设备镜头离地面1.5米，可根据身高情况自行调整。



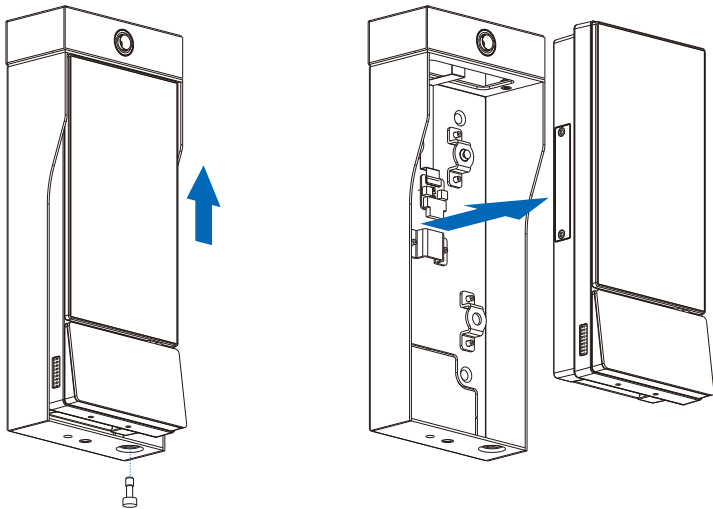
1) 拆卸防护罩。

【说明】人体测温门禁设备在进行壁装前，需先将防护罩拆下，并断开主机与热成像模组的连接。

a) 拧下防护罩底部的固定螺钉；

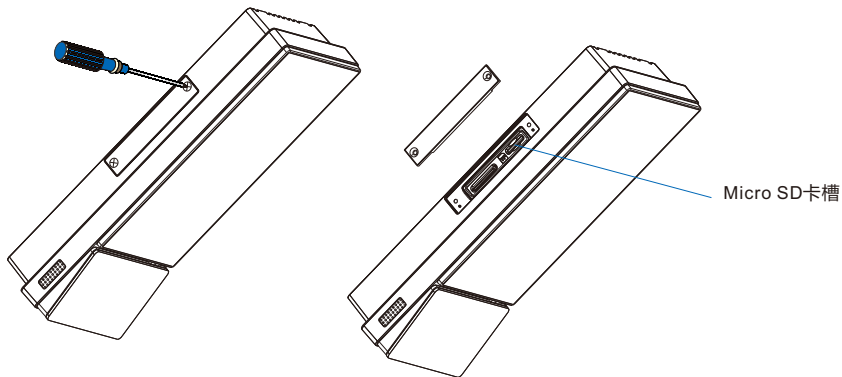
b) 向上推主机，使防护罩上的卡钉从主机后面板的挂孔中脱出；

c) 再向外取出主机，并取下设备尾线的热成像模组接口。



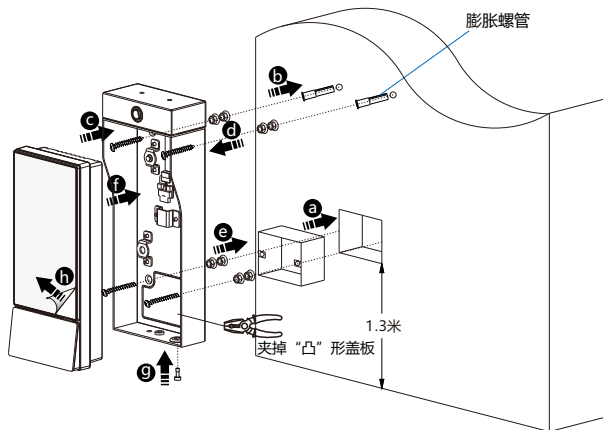
2) 安装Micro SD卡。设备出厂时，默认配置有Micro SD卡，如有需要，可参考以下方法拆装Micro SD卡。

- a) 如下图所示，拧松螺钉并取下卡盖；
- b) 在图示的Micro SD卡插槽中，插入Micro SD卡；
- c) 安装完成后，装回卡盖并拧紧螺钉。



- 【说明】** 1) Micro SD卡容量最大支持256G，Micro SD卡不支持热插拔，首次使用时需格式化。
2) Micro SD卡安装完成后，请务必装回卡盖，避免因进水而导致设备损坏。

3) 安装人体测温门禁。设备需配合86盒进行壁装，详细安装步骤如下：

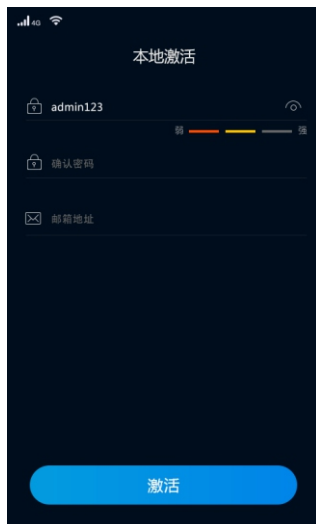
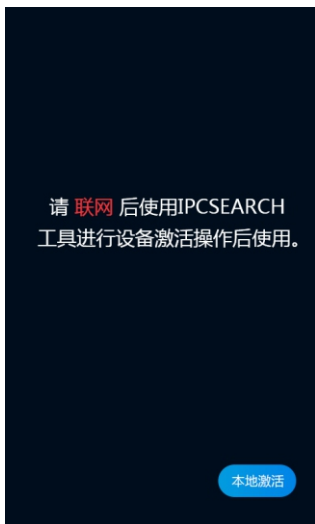


- 安装86盒（建议86盒安装高度为距离地面1.3米）；
- 将防护罩背面下方的两个螺孔对准86盒的两个螺孔，用记号笔在上方两个螺孔对应的墙面位置画记号，然后打孔并塞入塑料膨胀螺管；
- 用钳子拿掉防护罩上的“凸”形盖板，分别将两枚M4*50的十字槽沉头螺钉（设备出厂配置）穿过防护罩下方的两个孔位，再将两枚ST3.9*25C十字沉头不锈钢自攻螺钉（设备出厂配置）穿过上方的两个孔位，如图所示；
- 在防护罩外侧，每个螺钉上套入两枚M5六角法兰螺母（共高约1cm，仅用于垫高设备）；
- 将下方的两枚螺钉拧入86盒的两个螺孔，上方的两枚螺钉拧入膨胀螺管，拧紧螺钉，将防护罩固定在墙面上；
- 将设备尾线的热成像模组接口连接到防护罩上的热成像模组，设备尾线穿过防护罩，放在86盒中；主机背面挂孔对准防护罩上的卡钉，将卡钉穿过挂孔并往下拉主机，使主机挂在防护罩上；
- 拧紧底部的固定螺钉；
- 安装完成后，撕掉屏幕上的透明保护膜。

六 开始使用

1. 激活设备

首次使用设备需进行设备激活。设备上电启动后，进入激活界面，如下图所示。



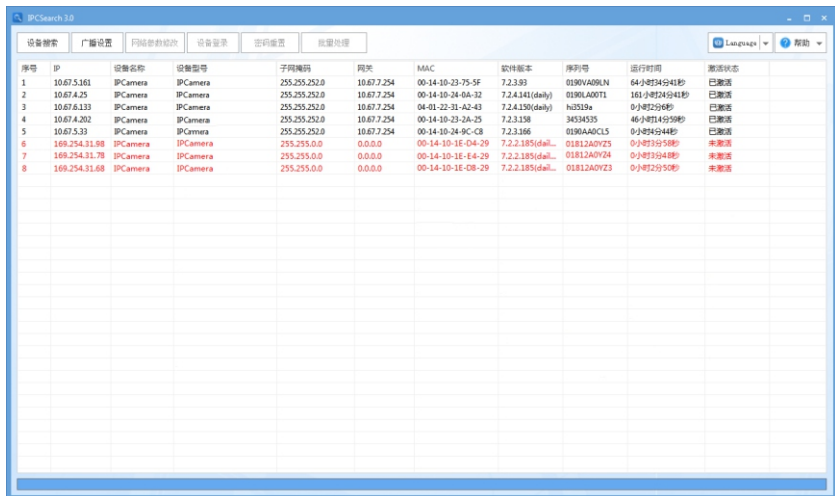
有三种方式激活设备：设备本地激活、通过IPCSearch激活和Web激活。

设备本地激活

在上图左边的界面中点击**本地激活**按钮，然后在右边本地激活界面设置密码、确认密码、输入邮箱（找回密码时用），点击**激活**按钮完成设备激活。

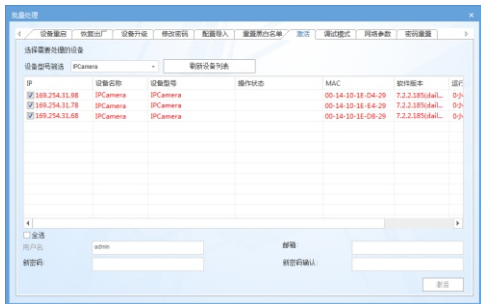
通过IPCSearch激活

IPCSearch可从官网获取。安装并运行IPCSearch，IPCSearch会自动搜索局域网内的所有在线设备。红色字体为未激活设备。列表中会显示设备IP、名称、型号等信息，如下图所示。



序号	IP	设备名称	设备型号	子网掩码	网关	MAC	软件版本	序列号	运行时间	激活状态
1	10.67.5.161	IPCamera	IPCamera	255.255.252.0	10.67.7.254	00-14-10-23-75-5F	7.2.3.85	0190VA08N14	54小时24分41秒	已激活
2	10.67.4.25	IPCamera	IPCamera	255.255.252.0	10.67.7.254	00-14-10-24-04-3E	7.2.4.341(daily)	0190LA00T1	161小时24分41秒	已激活
3	10.67.6.133	IPCamera	IPCamera	255.255.252.0	10.67.7.254	04-01-22-21-A2-43	7.2.4.130(daily)	h3519a	0小时2分08秒	已激活
4	10.67.4.202	IPCamera	IPCamera	255.255.252.0	10.67.7.254	00-14-10-23-2A-25	7.2.3.158	34534535	46小时14分59秒	已激活
5	10.67.5.33	IPCamera	IPCamera	255.255.252.0	10.67.7.254	00-14-10-24-9C-C8	7.2.3.166	0190AA0CL5	0小时24分44秒	已激活
6	169.254.31.98	IPCamera	IPCamera	255.255.0.0	0.0.0.0	00-14-10-1E-04-29	7.2.2.185(daily)	01812A0V25	0小时3分58秒	未激活
7	169.254.31.78	IPCamera	IPCamera	255.255.0.0	0.0.0.0	00-14-10-1E-E4-29	7.2.2.185(daily)	01812A0V24	0小时3分54秒	未激活
8	169.254.31.68	IPCamera	IPCamera	255.255.0.0	0.0.0.0	00-14-10-1E-C8-29	7.2.2.185(daily)	01812A0V23	0小时2分50秒	未激活

选中需要激活的设备，点击**批量处理**或右键选择**设备激活**，进入设备激活界面，如下图所示。



勾选需要激活的设备，在下方输入新密码、新密码确认、邮箱（找回密码时用），点击**激活**按钮完成设备激活。设备激活后将自动重启。

Web客户端激活

将PC机与设备设为同一网段，打开浏览器，输入http://设备IP:8080/，进入Web激活界面，如下图所示，输入密码、确认密码、邮箱（找回密码时用），点击**激活**按钮激活设备。



2. 修改网络参数

在IPCSearch中选中已激活的设备，点击网络参数修改，可在弹出的界面中修改设备网络参数。在IPCSearch中修改网络参数后，设备将自动重启。

修改网络参数

设备名称: IPCSearch
MAC: 00-14-10-10-00-02
设备型号: EDC120-48H-PC

设备地址

自动获取地址 (开启NOCF客户端)

自定义地址 (关闭NOCF客户端)

IP地址: 19 . 82 . 0 . 2
子网掩码: 255 . 255 . 0 . 0
默认网关: 19 . 82 . 255 . 254

选择注册平台地址

选择平台地址

IP地址: 224 . 1 . 1 . 1
域名: test.com
注册端口: 8110

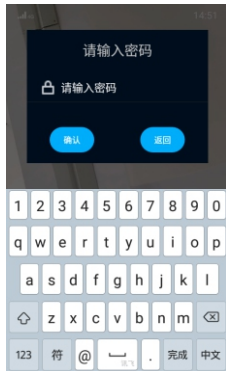
用户名: admin
密码: |

注：保存上述参数设备将自动重启并断电启动。

确认 取消

3. 登录设备

长按屏幕3秒以上，弹出登录界面，输入激活设备时设置的密码登录设备，登录成功后进入主菜单界面。

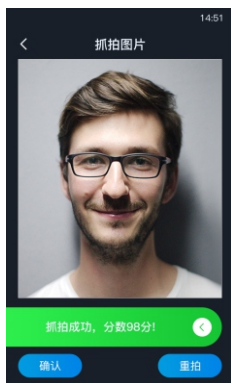
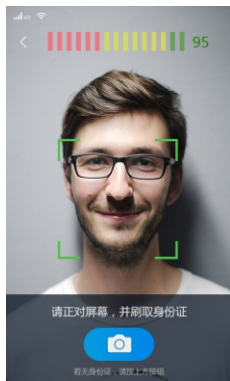


4. 人员登记

点击**人员管理-人员登记**进入界面。

将脸对准设备摄像头，点击**抓拍按钮**，界面会语音提示“请正对屏幕”，抓拍一张人脸清晰、大小适中的图片，然后点击**确认按钮**，进入人员登记界面输入人员信息。若所抓拍图片不符合要求，请点击**重拍按钮**，返回录入界面重新抓拍。

在人员登记界面输入人员信息时，如果特征提取失败，系统会报错，需返回界面重新抓拍。

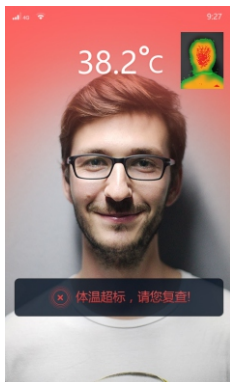
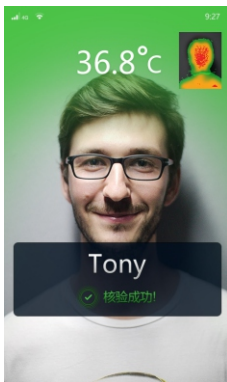


5. 测温参数设置

点击**系统设置-测温参数**进入界面。

点击**温度检测**按钮，开启温度检测功能，并根据实际需求设置温度超标阈值，范围为 0.0°C ~ 100.0°C ；点击**显示测温画面**按钮，开启后，人脸核验界面右上方将显示热成像图像。

- 【说明】**
- 1) 根据实际情况，填写室内温度，可提高测温准确性。
 - 2) 通常情况下，无需设置温度补偿；如出现测温结果普遍偏高或偏低的特殊情况，可根据实际情况，设置温度补偿，将测温结果增加或减少相应值，温度补偿范围为 -3.0°C ~ 3.0°C 。

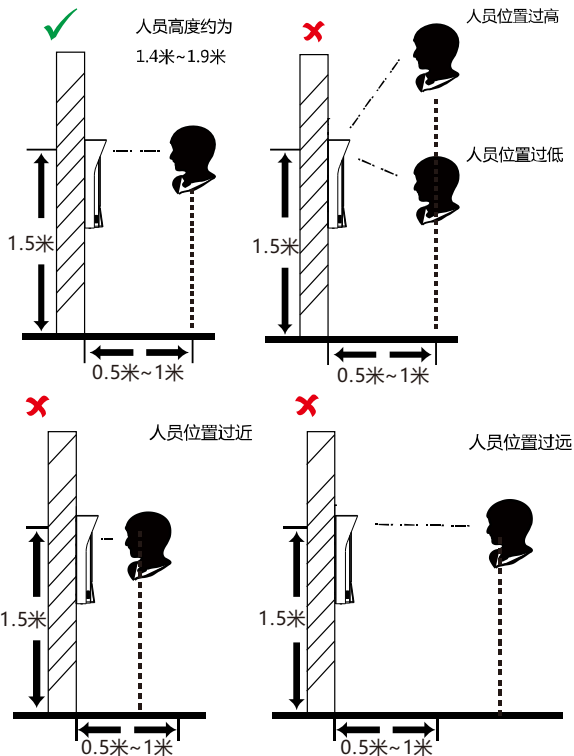


【说明】 更多操作请参考用户手册。

附录A：人脸识别注意事项

1. 人脸录入/比对位置

人脸录入/比对位置如下图所示（以站距0.5米~1米为例）。



2. 人脸录入/比对姿势

人脸表情：

为保证人脸参数录入质量以及比对清晰度，请务必在录入/比对过程中，保持自然的表情（如下图所示）。

人脸录入时请勿戴帽子、佩戴墨镜等影响人脸特征采集的饰品，请勿让刘海遮挡面部五官，并请勿化浓妆。



人脸自然表情

人脸姿势：

为保证人脸参数录入质量以及比对清晰度，请务必在录入/比对过程中，保证人脸正对录入窗口。

人脸录入/比对姿势说明图如下图所示：

正常 ✓



偏头 ✗



侧脸 ✗



仰头 ✗



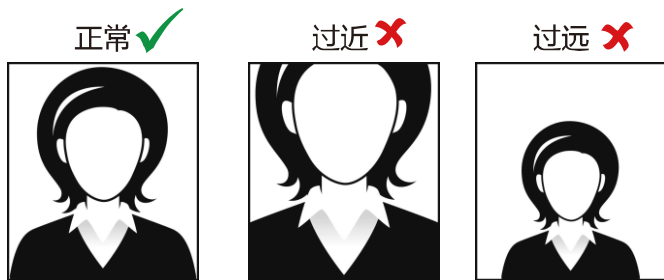
低头 ✗



人脸录入/比对姿势示意图

人脸大小调整:

在登记过程中, 请您尽量使人脸位于窗口中心位置。人脸大小调整示意如下图所示:



人脸大小调整示意图

附录B: 安装环境注意事项

1) 安装环境光源参考



蜡烛: 10Lux



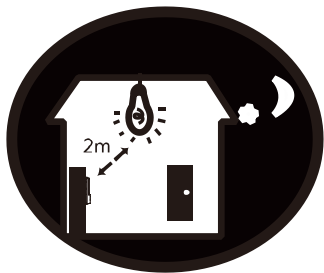
灯泡: 100~850Lux



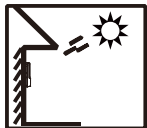
日光: 大于1200Lux

2) 离设备0.5米处的最小光源不低于100Lux。

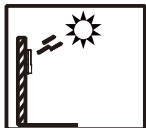
3) 若将设备安装在室内，请距离光源至少2米，距离窗口及门口至少3米。



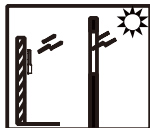
4) 避免逆光、阳光直射、阳光透过窗户直射、阳光透过窗户斜射、灯光近距离照射。



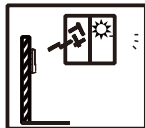
X 逆光



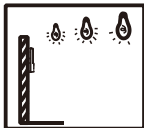
X 太阳直射



X 太阳透过
窗户直射



X 太阳透过
窗户斜射



X 灯光近距
离照射

附录C: DC12V线径与传输距离关系表

当线径大小一定, DC12V电压损耗率低于10%时, 不同传输功率推荐的最大传输距离。

(对于DC 12V直流供电设备, 其最大允许电压损耗率为10%。下面表格中所用线缆均为铜线, 铜的电阻率为 $\rho = 0.0175\Omega \cdot \text{mm}^2/\text{m}$)

距离 m(feet)	线径 mm	0.80 (20AWG)	1.00 (18AWG)	1.25 (16AWG)	2.00 (12AWG)
功率W					
5		38(125)	61(199)	96(315)	244(801)
10		19(63)	30(99)	48(157)	122(400)
15		13(42)	20(66)	32(105)	81(267)
20		10(31)	15(50)	24(79)	61(200)
25		8(25)	12(40)	19(63)	49(160)
30		6(21)	10(33)	16(52)	41(133)
35		5(18)	9(28)	14(45)	35(114)
40		5(16)	8(25)	12(39)	31(100)
45		4(14)	7(22)	11(35)	27(89)
50		4(13)	6(20)	10(31)	24(80)
55		3(11)	6(18)	9(29)	22(73)
60		3(10)	5(17)	8(26)	20(67)
65		-	5(15)	7(24)	19(62)
70		-	4(14)	7(22)	17(57)
75		-	4(13)	6(21)	16(53)
80		-	4(12)	6(20)	15(50)
85		-	4(12)	6(19)	14(47)
90		-	3(11)	5(17)	14(44)
95		-	3(10)	5(17)	13(42)
100		-	3(10)	5(16)	12(40)

- 【说明】** 1) 传输功率超过60W, 需用1.0 (18AWG) 或以上线径;
 2) 线径要求适用于单根、实心、圆形的铜线, 多股绞线的电缆AWG, 值由所有线的总横截面积决定。

保修说明

本保修卡适用于您购买的本公司系列产品。

1. 免费保修期一年（仅限中国大陆地区，中国大陆以外地区请参考英文说明）。
2. 凡保修期内，由于本产品自身引起的故障，请与公司售后服务部联系。
3. 保修时我们将使用您的保修卡信息，请认真填写。
4. 以下情况，属于有偿保修范围：
 - 人为原因造成的设备故障
 - 因使用环境不符合本产品要求造成的故障
 - 因不可抗力造成的产品损坏
 - 无保修卡
 - 已过免费保修期

用户信息

用户名称：

详细地址：

传真：

电话：

邮箱：

邮编：

产品名称：

产品型号：

购买日期：

I. Preface

Thank you for purchasing our product. If there is any question, please do not hesitate to contact us.

These instructions are intended to ensure that the user can use the product correctly to avoid danger or property loss. Please read this Guide carefully before using the product, and keep it properly for future reference. If the product cannot work normally or is damaged because the user does not follow the safety instructions, we shall not assume any responsibility. Thanks for your cooperation.

II. Safety Instruction

1. Power Supply

- During installing and using the device, please follow local electrical safety regulations strictly.
- Please use power supply in the safe voltage range of our product. Make sure if the power supply is correct before running the device.

2. Working Environment

- Please transport, use and store the device within defined humidity and temperature ranges.
- Do not expose it in damp, dusty, extremely hot or cold places or places with intense electromagnetic radiation or with unstable lighting.
- Keep the camera away from water or any liquid to avoid damage to internal components.
- While shipping the camera, pack it in the factory packing or use materials with equivalent quality.
- When shipping, storing and installing the device, try to prevent it from damages caused by pressure, violent vibration and soaking.

Working Environment	
Voltage	Power Supply: DC12V±10%, Power Consumption: 30W max
Temp.	10°C~+40°C
Humidity	0%~95% (non-condensing)
Altitude	-60m~3000m
Pressure	86kPa~106kPa

3. Instructions

- Do not face the thermal-imaging lens to shoot high-heat objects such as the sun; otherwise the thermal-imaging detector may be burned.
- The terminal should work indoor under temperature from 10°C to 40°C and avoid direct sunlight shining onto the IR thermometer and the forehead of people so as to ensure the accuracy of temperature. When the device is used outdoor, you need to build up a shed or tent to create special environment. The following is an example for your reference:



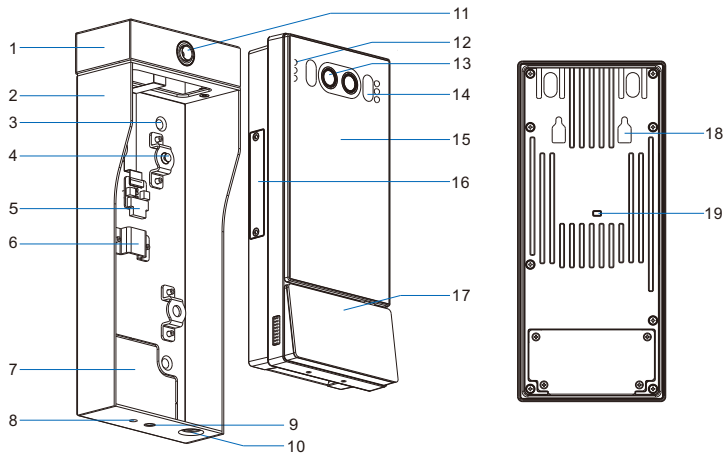
- When the face recognition & fever screening terminal is electrified and cold-booted, it requires a 30-minute warmup before measuring temperature.
- People who come indoor from outdoor should stay in the environment for at least 2 to 5 minutes before their temperature is measured.
- People who did exercise or had hot food should wait for 30 minutes before being measured, and keep the forehead dry without being covered by hair.
- Make good control over the people in the passage. People should pass through the passage in order without gathering. Anyone detected with abnormal temperature shall be found in time and be re-examined by medical care personnel. Never gather to measure temperature.

4. Special Statement

- The product appearance is subject to the actual device and picture in this Guide is for reference only..
- Every effort has been made to ensure the accuracy and validity of this Guide. Any update of this Guide caused by version upgrade is subject to change without notice.
- This Guide is made for multiple models but it will not illustrate one by one. Please refer to it according to the actual products you are using.
- This device can be used after being activated through IPCSearch with a valid email address for claiming the password.
- To ensure the safety of device on internet, it is strongly recommended that you set a strong password which is composed of at least 2 kinds of the following, digits, case-sensitive letters or specific symbols, and whose length ranges from 8 to 16 bits. Please modify the password periodically and once every 3 months is recommended. If the device is used in highly risky environment, suggest modifying the password monthly or weekly. Please keep your user name and password safe.
- Accessing this device to the internet is at user's own risk, including but not limited to the possible network attack, hacker attack, virus infection and etc. This company will not assume any responsibility for problems of product abnormality and information disclosure caused thereof. We shall provide technical support relating to the products in time.
- For the latest documents, please download at our website www.kedacom.com.

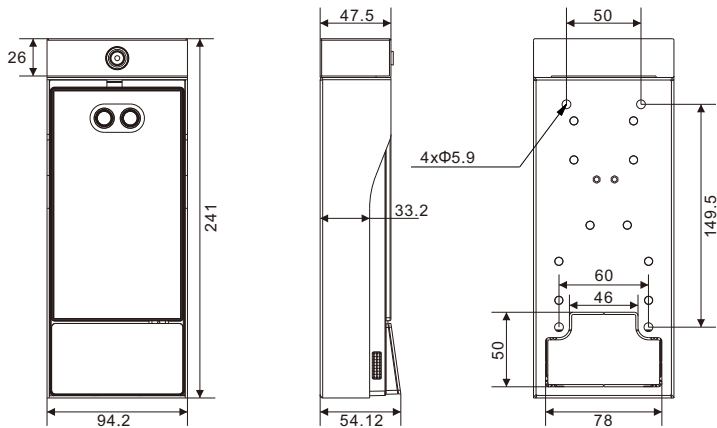
III. Appearance and Interface

1.Components:



No.	Name	No.	Name
1	Thermal-Imaging Module	11	Thermal-Imaging Lens
2	Housing	12	IR Light
3	4xScrew Holes (fix wall)	13	Lens
4	Staple Bolt	14	White Light Fill Light
5	Thermal-Imaging Module Port	15	Screen
6	Holder	16	Micro SD Card Slot
7	Flange Plate	17	Card-Reading Area
8	Tripod Sticking Hole	18	Hanging Hole
9	Tripod Fixing Screw Hole	19	Tamperproof Button
10	Fixing Screw		

2. Dimensions:



Unit: mm

3. Tail Circuit:

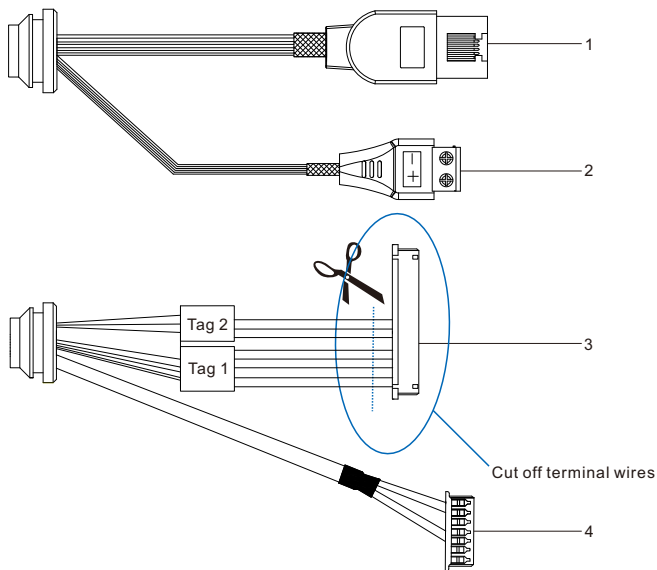


Table 1 Wire Interface

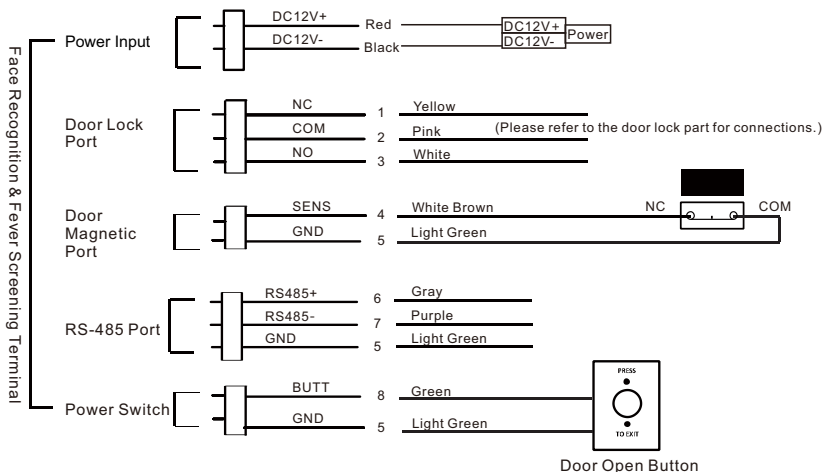
No.	Interface Name	Function Description
1	Network	Connect to network access devices like a switch
2	Power supply	Connect to power supply of DC12V
3	User cable group	Including door lock port, door magnetic port and RS-485 port
4	Thermal-imaging module port	Connect to thermal-imaging module

Table 2 User Cable Group Interface

Interface	No.	Color	Port Name	Function Description
User Cable Group	1	Yellow	NC	Normally closed door lock port
	2	Pink	COM	Door lock port
	3	White	NO	Normally open door lock port
	4	White Brown	SENS	Door magnetic port
	5	Light Green	GND	Grounding
	6	Gray	RS-485 +	RS-485 serial port, to control external devices such as third-party device
	7	Purple	RS-485 -	
	8	Green	BUTT	Door-open button port

IV. Wire Connection

Cut off the user cable group and connect to RS-485, door lock, door-open button, door magnetic, alarm device, card reader and etc.

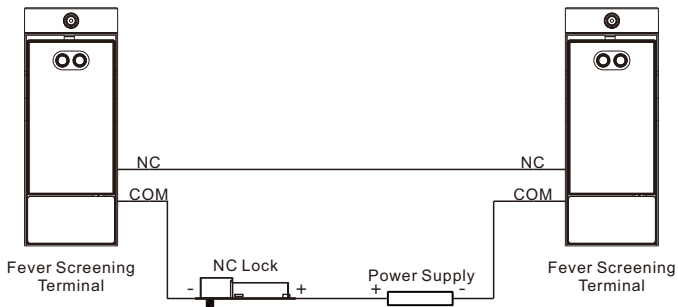


- [Note]** 1) In the door lock port, NC is for connecting to normally closed door lock and NO is for connecting to normally open door lock. NC door lock is also called anode lock which opens the door when powered off; NO lock is also named cathode lock which opens the door when electrified.
- 2) By default, the door magnetic input is NC, door magnetic port SENS connecting to door magnetic switch NC port, GND connecting to door magnetic switch COM port; if the door magnetic input is NO, the SENS port connects to NO port and GND to door magnetic switch COM port. Go to the access control interface and view or edit door magnetic input.

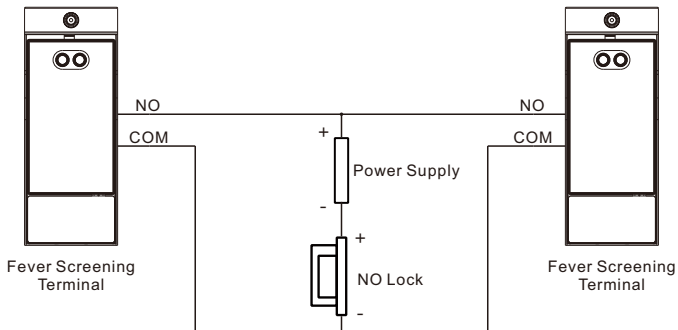
Connect to Door Lock

The device supports NO type and NC type locks, whose connection methods differ under different conditions. Please refer to the following:

- 1) Both inside and outside are fever screening terminals.

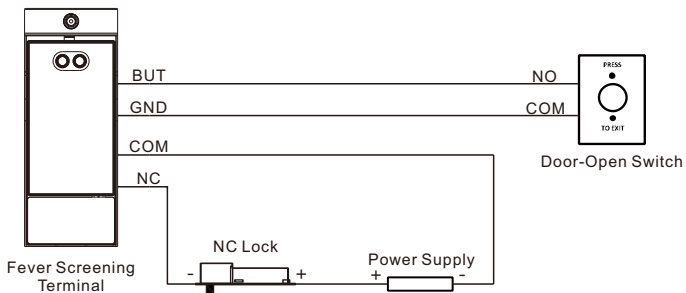


Connect to NO lock:

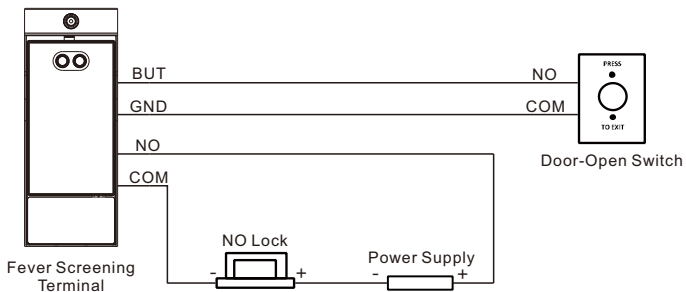


2) The outside is fever screening terminal while the inside is door-open switch.

Connect to NC lock:

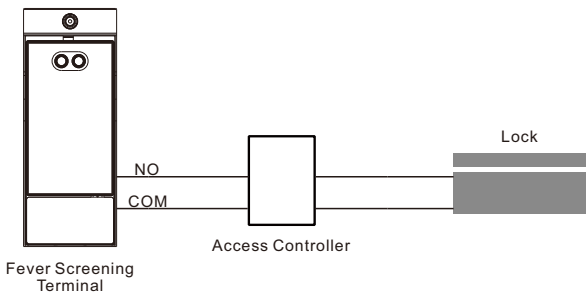


Connect to NO lock:



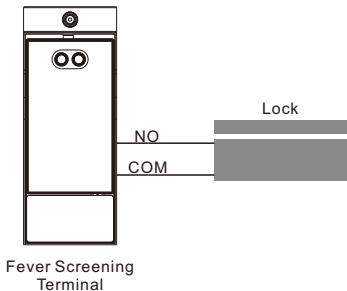
3) Connection when there is an access controller.

The access controller provides 2 lines and connect them to form a short circuit to open the door. When connecting to the fever screening terminal, just connect the 2 lines to the NO and COM ports of the fever screening terminal respectively.



4) Connection when the door lock has a controller.

The door lock provides 2 lines and connect them to form a short circuit to open the door. When connecting to the fever screening terminal, just connect the 2 lines to the NO and COM ports of the fever screening terminal respectively.



V. Installation

1. Install the Tripod

The fever screening terminal can be mounted on the matched tripod and its position, height and lens direction can be adjusted freely if necessary. The net weight of the matched tripod is about 1.4 KG and the folded height of it is 0.48 m while the maximum working height is 1.48 m.

- 1) Take out the tripod from the packing; push the hasp outward on the top of the tripod to take down the quick release plate.



- 2) Align the fixing screw on the quick release plate to the screw hole at the bottom of the fever screening terminal, and adjust the position of the quick release plate until the button on it is stuck into the sticking hole at the bottom of the terminal. Then tighten the screw clockwise and fix the quick release plate.



- 3) Open the lock on the tripod leg and adjust the leg height by request, each leg with 3 sections adjustable; when adjust the legs to proper height, pull the lock to fix height.



- 4) Unfold the tripod, push the cross-bar downward till the end, and rotate the rotary knob clockwise to lock the tripod tight; put the tripod at a proper position according to the actual condition, observe the gradienter on the tripod and fine tune the heights of the legs to make bubbles inside the red circle.



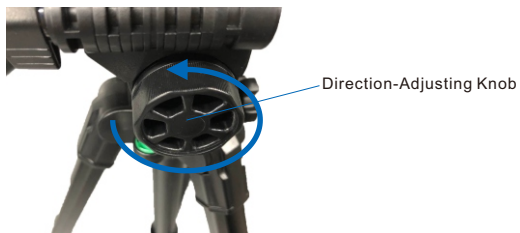
- 5) As the following pictures show, push the lock on the top of the tripod outward and stick the quick release plate into the slot; release and when the lock returns to its position, fix the device onto the tripod.



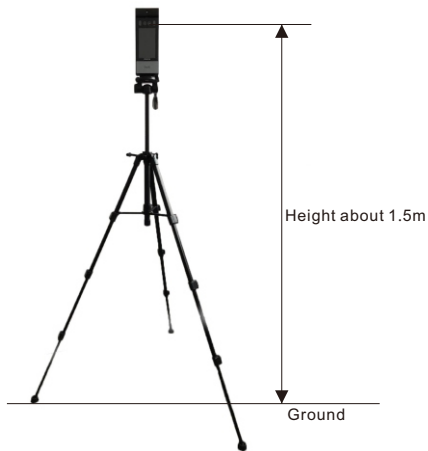
- 6) After fixing the device, loosen the height-adjusting knob on the tripod anti-clockwise; then rotate the handle to adjust device height, clockwise to raise its height while anti-clockwise to lower its height; when the device lens is adjusted about 1.5 m high, tighten the knob to fix the device.



- 7) Loosen the direction-adjusting knob on the tripod anti-clockwise to rotate the device and adjust device direction; after adjusting the device to proper direction, tighten the knob to fix the device.



- 8) After finishing installation, peel off the transparent protective film on the screen.



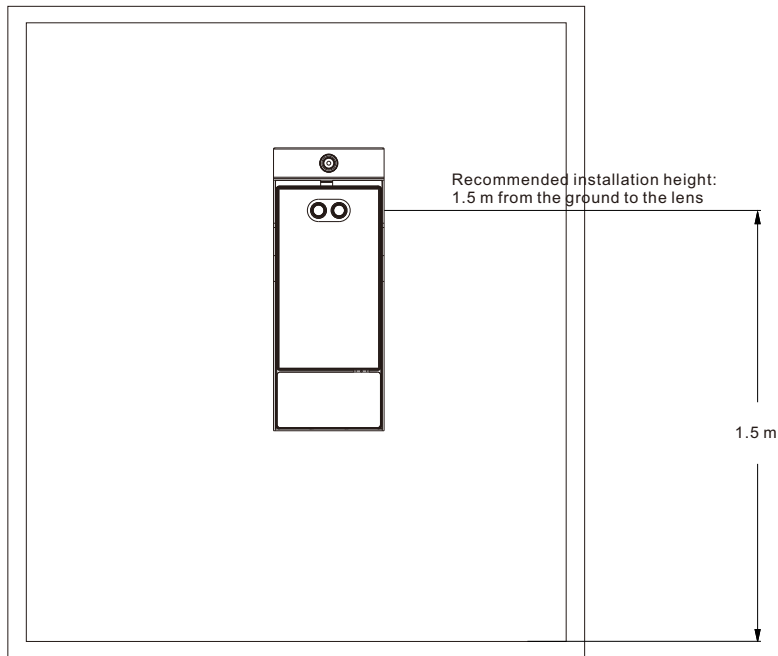
2. Wall Mount

[Note] Please make sure the environment meets requirements before installation. For detailed instructions for the installation environment, please refer to the **Appendix**.

If install the device indoor, it should be at least 2 m away from the light source and at least 3 m from the window and door to avoid direct sunlight.

Please make sure the illumination of the light source in the environment is over 100 Lux.

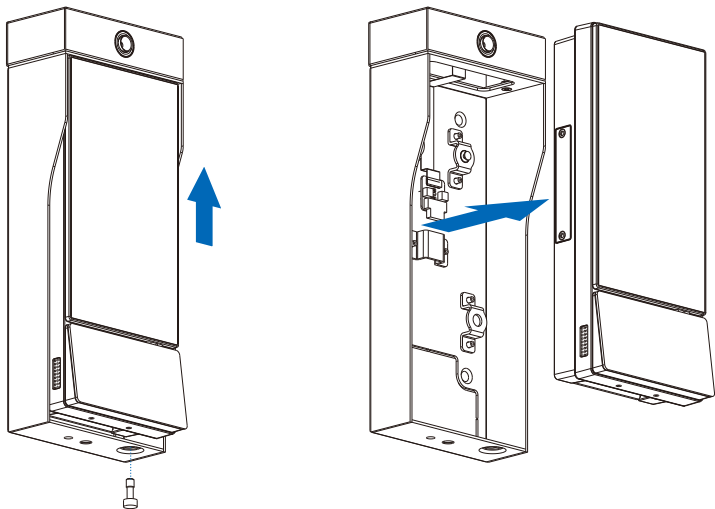
The recommended installation height is 1.5 m from the ground to the device lens, or you can adjust the height according to human height.



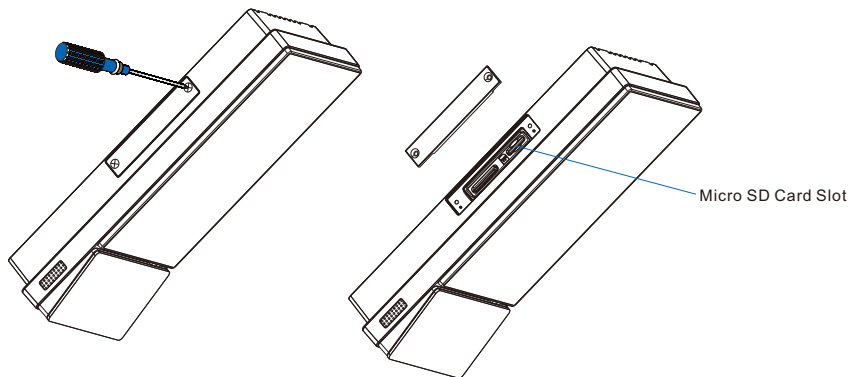
1) Dismantle the housing.

[Note] Before installing the fever screening terminal onto the wall, dismantle the housing first and disconnect the main body with the thermal-imaging module.

- a) Loosen the fixing screw at the bottom of the housing;
- b) Push the main body upward to make the staple bolt on the housing apart from the hanging hole on the back panel of the main body;
- c) Take down the main body outward and the thermal-imaging module port at the tail circuit of the device.

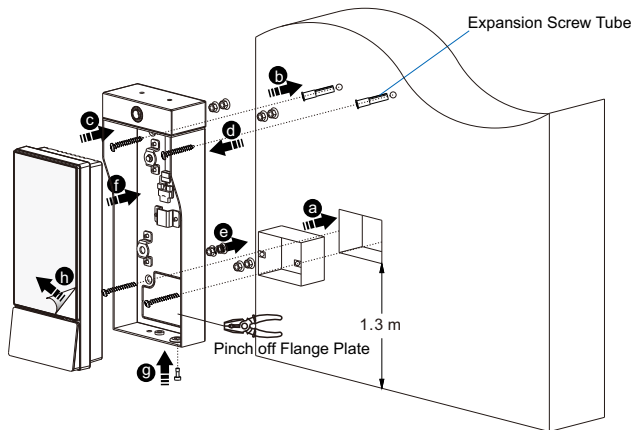


- 2) Install Micro SD card. The device goes out with a Micro SD card by default. Please refer to the following steps to install or uninstall Micro SD card if necessary.
- As shown below, loosen the screws and take down the card lid;
 - Insert Micro SD card into the Micro SD card slot as indicated below;
 - After finishing, cover the card lid and tighten the screws.



- [Note]** 1) The Micro SD card supports maximum 256G. After the Micro SD card is inserted, it cannot be hot-swapped and you must format the card for first time use.
- 2) After finishing installation of the Micro SD card, tighten the screws and cover the card lid to prevent water which may damage the device.

3) Install fever screening terminal. The device should be installed with 86 box. Detailed installation steps are as follows:

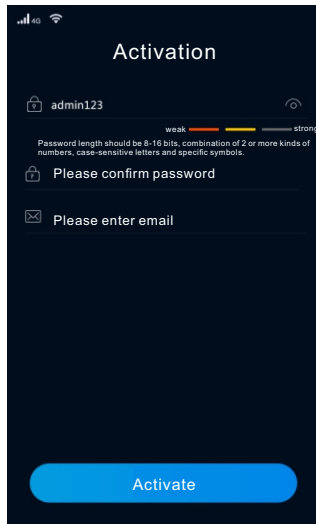
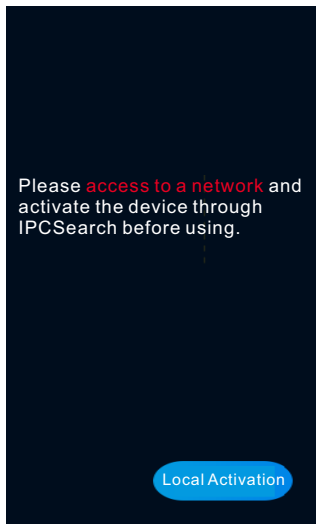


- a) Install the 86 box (the recommended installation height of the 86 box is 1.3m from the ground);
- b) Align the 2 screw holes at the bottom of the housing back to the 2 screw holes on the 86 box, and use a marking pen to make marks on the wall at the 2 holes on the top, then drill holes and insert the expansion screw tubes;
- c) Pinch off the flange plate on the housing with pliers, then align the two cross recessed countersunk head screws M4*50 (factory accessories) to the 2 holes at the bottom of the housing and the two cross countersunk head stainless steel tapping screws ST3.9*25C (factory accessories) to the 2 holes on the top, as the picture shows;
- d) At the external side of the housing, set each screw with 2 hexagon flange nuts M5 (total height being about 1 cm, only for raising up the device);
- e) Install the 2 screws at the bottom into the 2 holes on the 86 box and the 2 on the top into the expansion screw tubes. Tighten the screws and fix the housing onto the wall;
- f) Connect the thermal-imaging module port at the tail circuit to the thermal-imaging module on the housing, thread the tail circuit of the device through the housing and place it into the 86 box; align the holes on the device back to the staple bolts on the housing, thread the staple bolts through the holes and pull down the device so that the device is hung on the housing;
- g) Tighten the fixing screws at the bottom;
- h) After finishing, peel off the transparent protective film on the screen.

VI. Startup

1. Activate Device.

You need to activate the device during first time of use. When the device is powered on, it will come to the activation interface, as shown below.



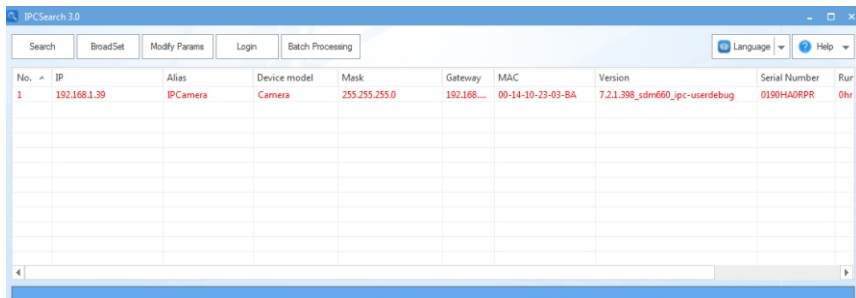
There are three methods to activate the device: activate through device, through IPCSearch and through Web client.

Activate Through Device

Tap "**Local Activation**" on the interface as shown above on the left, configure password, confirm password and email (for claiming password) on the right, and tap "**Activate**" to finish.

Activate Through IPCSearch

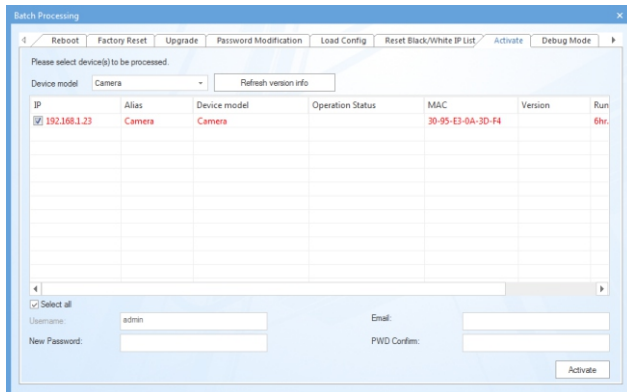
Download IPCSearch from our website. Install and run IPCSearch and it will search online devices in LAN automatically and display the list of device IP, alias, device model and etc. The device in red is non-activated one, as shown below.



The screenshot shows the IPCSearch 3.0 application window. At the top, there are buttons for Search, BroadSet, Modify Params, Login, and Batch Processing. On the right, there are Language and Help dropdown menus. Below these is a table with the following columns: No., IP, Alias, Device model, Mask, Gateway, MAC, Version, Serial Number, and Run. The first row contains the following data: No. 1, IP 192.168.1.39, Alias IPCamera, Device model Camera, Mask 255.255.255.0, Gateway 192.168..., MAC 00-14-10-23-03-8A, Version 7.21.398_sdm660_ipc-userdebug, Serial Number 0190HAORPR, and Run 0hr. The text in this row is red, indicating the device is non-activated.

No.	IP	Alias	Device model	Mask	Gateway	MAC	Version	Serial Number	Run
1	192.168.1.39	IPCamera	Camera	255.255.255.0	192.168...	00-14-10-23-03-8A	7.21.398_sdm660_ipc-userdebug	0190HAORPR	0hr

Select the non-activated device and click **"Batch Processing"** or right-click and select **"Activate"** to enter the activation interface, as shown below.



The screenshot shows the Batch Processing window. At the top, there are tabs for Reboot, Factory Reset, Upgrade, Password Modification, Load Config, Reset Black/White IP List, Activate, and Debug Mode. Below the tabs, there is a prompt: "Please select device(s) to be processed." Below this is a dropdown menu showing "Camera" and a "Refresh version info" button. Below that is a table with the following columns: Device model, IP, Alias, Device model, Operation Status, MAC, Version, and Run. The first row contains the following data: Device model Camera, IP 192.168.1.23, Alias Camera, Device model Camera, Operation Status (checkbox checked), MAC 30-95-E3-0A-3D-F4, Version, and Run 6hr. Below the table, there is a "Select all" checkbox which is checked. At the bottom, there are input fields for Username (admin), Email, New Password, and PWD Confirm, along with an Activate button.

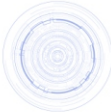
Device model	IP	Alias	Device model	Operation Status	MAC	Version	Run
Camera	192.168.1.23	Camera	Camera	<input checked="" type="checkbox"/>	30-95-E3-0A-3D-F4		6hr

Select the device(s) to be activated, enter new password, password confirm and email (for claiming password), and click "**Activate**" to finish. The device will reboot automatically.

Activate Through Web Client

Set the PC and the device in the same network segment and open the browser. Enter "http://device IP:8080/" to enter the web activation interface, as shown below. Enter new password, confirm new password and email (for claiming password), and click "**Activate**" to finish.

Login



WeakStrong

Please choose a password with 8-16 characters. Your password must also contain two or more combinations of upper and lowercase letters, numbers, and symbols.

When admin's password gets lost, find it back through this email. Make sure this email address is safe and valid.

2. Modify Params

Select the activated device from the IPCSearch and click "**Modify Params**" to modify network parameters on the popup interface. After finish, the device will reboot automatically.

Modify Faams

Device: Camera
 MAC: 00-14-10-0F-56-7D
 Type: Camera

Device Address

Auto-obtain device address(Open DHCP)
 Custom device address(Close DHCP)

IP Address: 10 . 255 . 236 . 51
 Subnet Mask: 255 . 255 . 248 . 0
 Gateway: 10 . 255 . 232 . 254

Modify VMS Registration Address

Enable LDAP

- IP Address: 10 . 255 . 232 . 241
- Domain: www.example.com
- Port: 5510

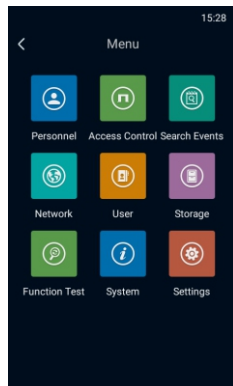
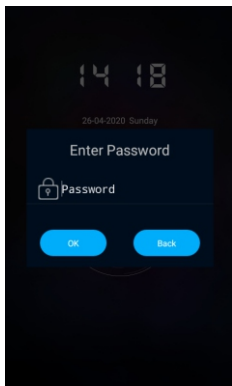
Username: admin
 Password:

Tip:
 Once the modification is saved,the device would reboot automatically and activate the settings.

OK Cancel

3. Login

Long-press on the screen for over 3 seconds and the login interface will pop up. Enter the password set during activation and login to the device. The main interface after login is as shown below:

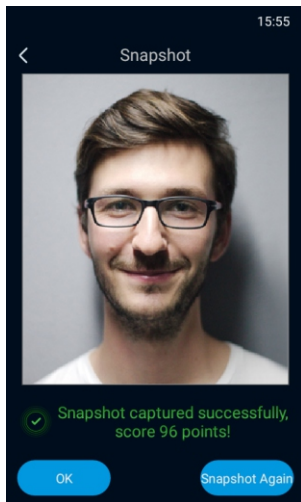
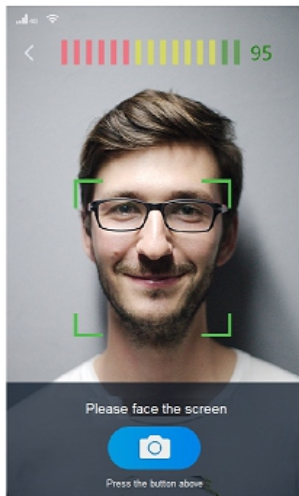


4. Personnel Registration

Tap **Personnel - Personnel Registration** to enter the interface.

Face toward the screen and tap the snapshot icon. There will be a voice prompt "Please face the screen". Capture a clear snapshot with proper size and tap "OK" to enter the registration interface and input the personnel information. If the snapshot fails to meet requirements, please tap "Snapshot Again" to return to the snapshot interface.

When inputting personal information on the registration interface, if it fails to abstract personal features, the system will report errors and you need to return to the snapshot interface to re-capture a suitable snapshot.



5. Temperature Detection Configuration

Tap **System-Temperature Detect**.

Tap **Temperature Detect** to enable temperature detection and configure temperature threshold according to requests, range being $0.0^{\circ}\text{C}\sim 100.0^{\circ}\text{C}$; tap **Temp View Display** and the thermal image will be displayed at the top right corner of the screen.

[Note] 1) Input indoor temperature according to actual conditions to improve temperature accuracy.

- 2) Usually, it's unnecessary to configure temperature compensation; if the measurement results are universally high or low, configure temperature compensation according to the actual conditions so as to increase or reduce the results to proper values, temperature compensation range being $-3.0^{\circ}\text{C}\sim 3.0^{\circ}\text{C}$.

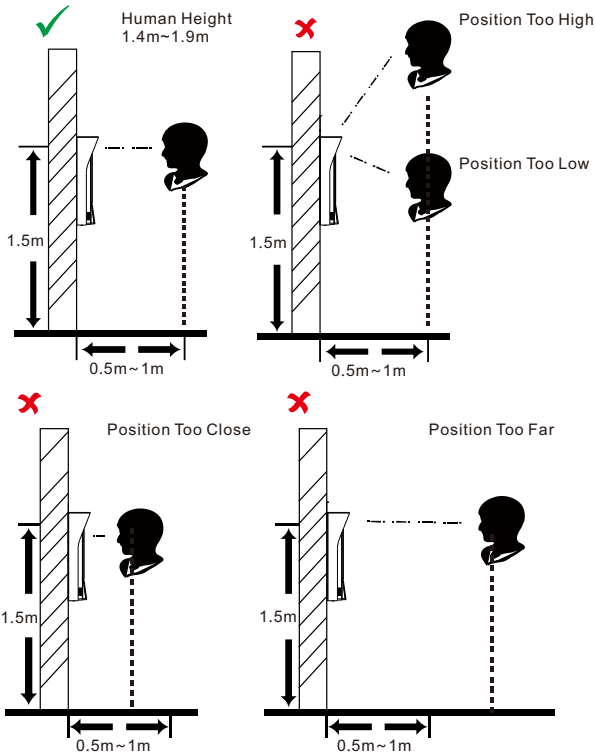


[Note] For more operations, please refer to the *User Manual*.

Appendix A: Instructions for Face Recognition

1. Position for Face Input/Comparison

Diagram of position for face input/comparison (e.g. standing 0.5m to 1m away from it).



2. Gesture for Face Input/Comparison

Facial Expression:

To ensure the face input quality and comparison sharpness, please maintain natural expressions during the input/comparison (as shown below).

During face input, please do NOT wear decorations such as hats or sunglasses which may affect face collection; please do NOT veil your face with the fringe hair; please do NOT wear a heavy makeup.



Natural Facial Expression

Facial Gesture:

To ensure the face input quality and comparison sharpness, please make sure your face is dead against the face input window during input/comparison.

Diagram of gesture for face input/comparison is shown below:

Normal ✓



Slanted ✗



Profile ✗



Raised ✗



Lowered ✗



Diagram of Gesture for Face Input/Comparison

Adjustment of Face Size:

During registration, please try to place your face at the center of the window. Diagram of face size adjustment is shown below:



Diagram of Face Size Adjustment

Appendix B: Instructions for Installation Environment

1. Light Source Reference for Installation



Candle: 10 Lux

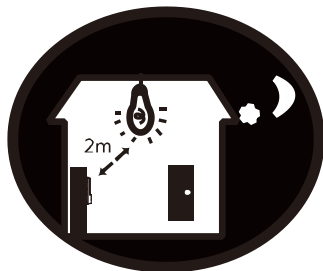
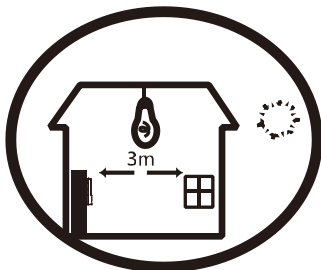


Bulb: 100~850 Lux

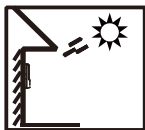


Sunlight: over 1200 Lux

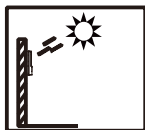
2. The minimum light source 0.5m away from the device should not be less than 100 Lux.
3. If install the device indoor, please keep a distance of at least 2m from the light source and at least 3m from the window and door.



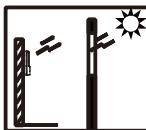
4. Avoid backlight, direct sunlight, direct sunlight through window, slanted sunlight through window or short distance irradiation of lamplight.



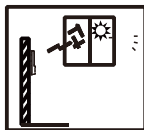
X Backlight



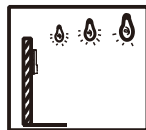
X Direct Sunlight



X Direct Sunlight
Through Window



X Slanted Sunlight
Through Window



X Short Distance
Irradiation of
Lamplight

Appendix C: DC12V Wire Diameter VS. Transmission Distance

The recommended max transmission distance when the wire diameter is certain and the DC12V voltage loss rate is less than 10%

(For DC12V powered devices, the maximum allowed voltage loss rate is 10%. All the wires in the following table are cooper wires, whose electrical resistivity is $\rho = 0.0175\Omega \cdot \text{mm}^2/\text{m}$)

Distance m (feet) Power W	Diameter mm	0.8 (20AWG)	1.0 (18AWG)	1.25 (16AWG)	2.0 (12AWG)
5		38 (125)	61(199)	96(315)	244(801)
10		19(63)	30(99)	48(157)	122(400)
15		13(42)	20(66)	32(105)	81(267)
20		10(31)	15(50)	24(79)	61(200)
25		8(25)	12(40)	19(63)	49(160)
30		6(21)	10(33)	16(52)	41(133)
35		5(18)	9(28)	14(45)	35(114)
40		5(16)	8(25)	12(39)	31(100)
45		4(14)	7(22)	11(35)	27(89)
50		4(13)	6(20)	10(31)	24(80)
55		3(11)	6(18)	9(29)	22(73)
60		3(10)	5(17)	8(26)	20(67)
65		-	5(15)	7(24)	19(62)
70		-	4(14)	7(22)	17(57)
75		-	4(13)	6(21)	16(53)
80		-	4(12)	6(20)	15(50)
85		-	4(12)	6(19)	14(47)
90		-	3(11)	5(17)	14(44)
95		-	3(10)	5(17)	13(42)
100		-	3(10)	5(16)	12(40)

[Note]:

1. When the transmission power is over 60W, you must use wires with diameter of 1.0 (18AWG) or above;
2. The requirements of diameter apply to single, solid and round cooper wire. The AWG value of multi-stranded wires depends on the total CSA (Cross Sectional Area) of all wires.

Kedacom Two (2) Year Limited Hardware Warranty

WHAT IS COVERED BY THIS WARRANTY?

Kedacom warrants the Kedacom-branded hardware product and accessories contained in the original packaging (hereinafter referred to as "Kedacom Product") against defects in materials and workmanship when used normally in accordance with Kedacom's published guidelines for a period of TWO (2) YEARS from the date of original retail purchase in areas other than mainland China by the end-user purchaser (hereinafter referred to as "Warranty Period"). For the Kedacom Product purchased in mainland China, see the simplified Chinese version of this warranty for details. Kedacom's published guidelines include but are not limited to information contained in technical specifications, user guides, and service communications. The preceding applies unless otherwise agreed in the contract.

WHAT IS NOT COVERED BY THIS WARRANTY?

This warranty does not apply to any non-Kedacom branded hardware products or any software, even if packaged or sold with Kedacom hardware. Manufacturers, suppliers, or publishers, other than Kedacom, may provide their own warranties to you but Kedacom, in so far as permitted by law, provides their products "AS IS". Software distributed by Kedacom with or without the Kedacom brand (including, but not limited to system software) is not covered by this warranty. Please refer to the licensing agreement accompanying the software for details of your rights with respect to its use. Kedacom does not warrant that the operation of the Kedacom Product will be uninterrupted or error-free. Kedacom is not responsible for damage arising from failures to follow instructions relating to the Kedacom Product's use.

This warranty does not apply: (a) to consumable parts, such as batteries, unless failure has occurred due to a defect in materials or workmanship; (b) to cosmetic damage, including but not limited to scratches, dents, and broken plastic on ports; (c) to damage caused by use with another product; (d) to damage caused by acts outside the control of Kedacom, including without limitation acts of God, accidents, abuse, misuse, fire, storms, earthquakes, flood, or other external cause; (e) to damage caused by exposure of the product to heat, bright light, sun, liquids, sand, or other contaminants; (f) to damage caused by operating the Kedacom Product outside Kedacom's published guidelines; (g) to damage caused by service (including upgrades and expansions) performed by anyone other than a representative of Kedacom, Kedacom employee, or authorized Kedacom agent; (h) to an Kedacom Product that has been modified to alter functionality or capability without the written permission of Kedacom; (i) to defects caused by normal wear and tear or otherwise due to the normal aging of the Kedacom Product, or (j) if any serial number has been removed or defaced from the Kedacom Product.

YOUR RESPONSIBILITIES

If your Kedacom product is capable of storing data and other information, you should make periodic backup copies of the information contained on the storage media to protect the contents and as a precaution against possible operational failures.

Before receiving warranty service, Kedacom or its authorized agents may require that you furnish proof of purchase details, respond to questions designed to assist with diagnosing potential issues, and follow Kedacom's procedures for obtaining warranty service. Before submitting your Kedacom Product for warranty service, you should maintain a separate backup copy of the contents of its storage media, remove all personal information that you want to protect, and disable all security passwords.

During warranty service, it is possible that the contents of the Kedacom product's storage media will be lost, replaced or reformatted. In such an event, Kedacom and its authorized agents are not responsible for any loss of data or other information contained on the storage media or any other part of the Kedacom product serviced.

Following warranty service, your Kedacom Product or a replacement product will be returned to you as your Kedacom Product was configured when originally purchased, subject to applicable updates. You will be responsible for reinstalling all other data and information. Recovery and reinstallation of other data and information are not covered under this warranty.

WHAT WILL KEDACOM DO IF THE WARRANTY IS BREACHED?

If during the Warranty Period, you submit a valid claim to Kedacom or an authorized Kedacom agent, Kedacom will, at its option, (i) repair the Kedacom Product using new or previously used parts that are equivalent to new in performance and reliability, or (ii) exchange the Kedacom Product for a refund of your purchase price.

A Kedacom replacement part or product, including a user-installable Kedacom part that has been installed in accordance with instructions provided by Kedacom, assumes the remaining warranty of the Kedacom Product or ninety (90) days from the date of replacement or repair, whichever provides longer coverage for you. When a product or part is replaced or a refund provided, any replacement item becomes your property and the replaced or refunded item becomes Kedacom's property.

Kedacom reserves the right to refund the purchase price as its exclusive warranty remedy.

HOW TO OBTAIN WARRANTY SERVICE?

To seek warranty service, please contact a local authorized Kedacom agent. When contacting the agent via telephone, other charges may apply depending on your location.

User Information

Complete the form below and keep for ready reference.

User Name:	
Address:	Postal Code:
Tel:	Mobile:
Fax:	E-Mail:
Product Name:	Product Model:
Date of Purchase:	

客户咨询热线：400-828-2866

KEDACOM

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