



X3221-I

Quick Start Guide 快速入门

Default Login IP Adresse IP IP accesso predefinito 默认 IP 地址	User Name nom d'utilisateur nome utente 用户名
192.168.0.120	admin

Issue: 07

Copyright © Huawei Technologies Co., Ltd. 2022.
All rights reserved.

版本: 07

版权所有 © 华为技术有限公司 2022。保留一切权利。

Packing List and Qualification Card 装箱清单和合格证

Component 物品	PCS	Component 物品	PCS
IPC 网络摄像机	1	Crimp terminal (supporting 0.75 mm ² and 1.0 mm ² cables) 压线端子 (支持0.75mm ² 和1.0mm ² 的线缆)	2
Drilling sticker 安装定位贴纸	1	Power terminal 电源端子	1
Expansion tube 膨胀管	3	2.5 mm flat-head screwdriver 一字螺丝刀 (刀头宽度为2.5mm)	1
Tapping screw 自攻螺钉	3	Quick Start Guide 快速入门	1



Additional Guides Available 资料获取路径

To obtain the latest documents, including the Product Documentation and FOSS License Information, visit <http://support.huawei.com/enterprise> and enter the camera model to search for related documents. You can also log in to <http://support.huawei.com/enterprise> or scan the QR code using your mobile phone to download the Technical Support app. Then start this app and choose **Products > Intelligent Vision** to obtain the latest documents of the required camera model.

请登录 <http://support.huawei.com/enterprise> 网站，输入摄像机型号进行搜索，获取最新资料，包括《产品文档》和《开源软件使用声明》等。

您也可以用手机登录 <http://support.huawei.com/enterprise> 网站或者扫描右侧二维码，下载“华为企业服务 APP”，选择“产品 > 机器视觉”，根据摄像机型号获取最新资料。



Huawei Enterprise
Technical Support app
华为企业技术支持 APP

电子电气产品有毒有害物质声明

部件名称	有毒有害物质或元素					
	Pb 铅	Hg 汞	Cd 镉	Cr6+ 六价铬	PBB 多溴联苯	PBDE 多溴二苯醚
结构件	×	○	○	○	○	○
单板/电路模块	×	○	○	○	○	○
线缆和线缆组件	×	○	○	○	○	○
纸质配件	○	○	○	○	○	○

本表格依据SJ/T 11364的规定编制。

○：表示该有害物质在该部件所有均质材料中的含量在GB/T 26572规定的限量要求以下。

×：表示该有害物质至少在该部件的某一均质材料中的含量超出GB/T 26572规定的限量要求。

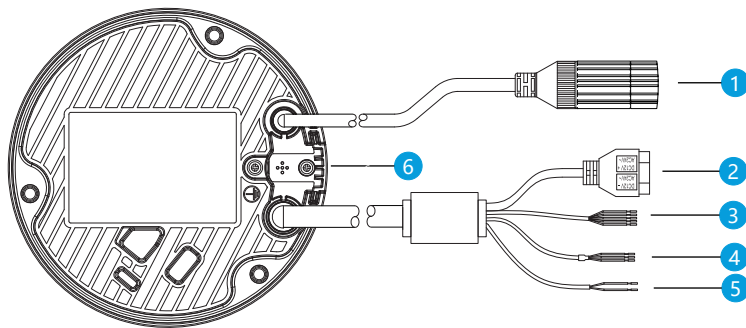


This product has an environment friendly use period (EFUP) of 20 years. Some replaceable parts have their own EFUP labels. The EFUP is suitable only for products that work in conditions specified in the product manual.

本产品的环保使用期限为20年。某些可更换的零部件会有一个不同的环保使用期贴在其产品上。此环保使用期限只适用于产品是在产品手册中所规定的条件下工作。

針對中國臺灣，限制物質含有情況標示聲明書，請登錄 <http://support.huawei.com/enterprise> 網站，輸入對應的攝像機型號進行搜索，在對應的產品文檔下選擇“安裝指南 > 附錄 > 限制物質含有情況標示聲明書”查看。

Interface Description/ 接口说明

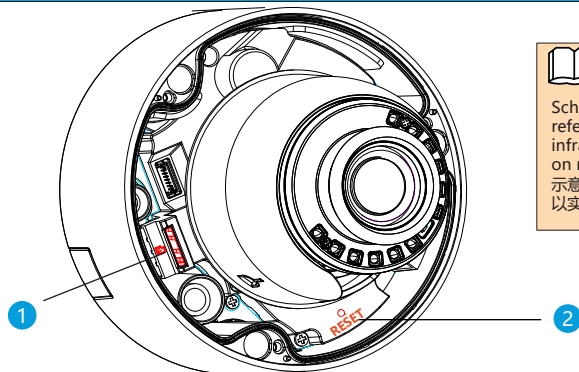


NOTE/ 说明

The color identifier of the alarm cable is subject to the actual pigtail label.
告警线缆颜色标识以实际的尾线标签为准。

NO. 序号	Item 名称	Description 说明
1	LAN/POE	Ethernet/PoE connection. This interface supports PoE. 网络接口。支持PoE供电。
2	POWER	Power input interface. (12 V $\pm$ 25% DC, 24 V AC (-25%, +24.9%). 电源输入接口。支持DC12V ($\pm$ 25%), AC24V (-25%, +24.9%)电源输入。
3	ALARM_OUT	Indicates the alarm output interface. ALARM_OUT and ALARM_REF form a group of alarm output. The rated power of the device driven by alarm output is less than or equal to 30 W, and its rated voltage is less than or equal to 110 V DC or 125 V AC.
	ALARM_REF	告警输出接口。ALARM_OUT和ALARM_REF组成一组告警输出。告警输出所驱动设备的额定功率不大于30W, 额定电压不高于DC 110V或AC 125V。
	ALARM_IN	Alarm input interface. There are two alarm input interfaces (for example: ALARM_IN0, ALARM_IN1). Each one connects to the GND connection to form a single alarm input.
	GND	告警输入接口。存在2路告警输入线, 采用ALARM_INn表示, n为数字, 每条告警线与GND组成一组告警输入。 Alarm input ground interface. 告警输入接地接口。
4	AUDIO OUT	Audio input/output interface and audio ground interface.
	AUDIO IN	AUDIO IN/AUDIO OUT为音频输入/输出接口。GND为音频接地接口。
	GND	
5	RS485+/ RS485-	RS485 interface. This interface provides a transparent data channel for half-duplex transmission between the camera and the connected device.
		RS485接口。通过该接口, 摄像机可以以半双工的方式通过透明通道与连接的设备互相传递数据。
6	GND	Indicates the ground interface of an IPC. 设备接地接口。

Reset button and SD card slot/Reset 键和 SD 卡槽



NOTE/ 说明

Schematic diagram for reference. The number of infrared lights is based on reality.
示意图供参考, 红外灯数量以实际为准。

NO. 序号	Operation 操作	Description 说明
1	Use a Phillips screwdriver to uninstall the transparent cover. You can find the reset button, SD card slot.	SD card slot. The SD card slot supports only class 10 or higher Micro SD cards. To replace a Micro SD card, the device must be powered off. Otherwise, system exception may occur. When a Micro SD card is used for the first time, log in to the web client of the device and format the Micro SD card. For details, see the Configuration Guide.
2	使用十字螺丝刀将透明罩卸下, 即可看到重置键、SD 卡槽。	SD 卡卡槽, 支持Micro SD卡 (Class 10及以上)。请在设备断电的情况下插拔SD卡, 否则可能会造成系统异常。首次使用时, 请登录设备Web客户端, 格式化SD卡, 操作方法请参见《配置指南》。 Reset button. To restart the device, hold down the reset button (less than 3s). To restore the device to factory settings, hold down the reset button for at least 3s while the device is running. Exercise caution when restoring the camera to factory settings. After the camera is restored to factory settings, user account and some other configuration data may be lost. 重置按钮。运行时按下RESET键短于3秒重启设备;运行时按下RESET键不短于3秒后恢复出厂配置。恢复出厂配置后将会导致用户的账号信息以及部分配置信息丢失, 请慎重操作。

Prepare for Installation Tools/ 准备安装工具

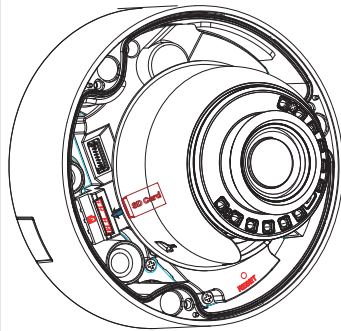
Video surveillance tester 视频监控测试仪	Hammer drill (for ceiling- or wall-mounted installations) 冲击钻 (吊顶和墙壁安装时使用)	PVC insulation tape 绝缘胶带	Hammer (for ceiling- or wall-mounted installations) 羊角锤 (吊顶和墙壁安装时使用)	RJ-45 connector crimping tool 水晶头压线钳	Phillips screwdrivers (1# and 2#) 十字螺丝刀 (1#和2#)	Diagonal cutting pliers 斜口钳
Measuring tape 钢卷尺	Cable stripper 剥线钳	Waterproof tape 防水胶带	Utility knife 裁纸刀	Wrench 扳手	Wiring terminals 接线端子	Cable ties 扎线带

Device Installation/ 设备安装

A SD Card Installation/ 安装 SD 卡

Use the Phillips screwdriver to remove the transparent cover, and install the SD card. You can refer to the SD card icon on the maintenance window for the insertion direction.

使用十字螺丝刀将透明罩卸下，插入 SD 卡，SD 卡插入方向参考维护窗上标识。

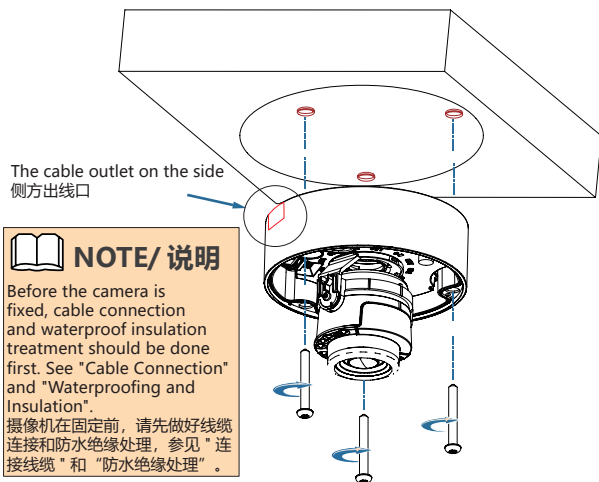


⚠ CAUTION/ 注意

When the camera is not or cannot be connected to a video surveillance platform for a long time, you are advised to disable video buffering to increase the service life of the SD card.
若摄像机长时间无法接通平台或者不对接平台使用，建议手动关闭摄像机的平台离线缓存补录功能，以提高 SD 卡的使用寿命。

- 3 Connect the cables to the tails of the camera, perform insulation operations on the cables (see *Cable Waterproofing and Insulation*), and put the cables through the cable entry on the wall (To route cables from the side, use a Phillips screwdriver to open the cable outlet on the side). Use the torque of 5 to 7 kgf.cm to fasten the tapping screws.

将线缆与摄像机的尾线连接，对线缆进行绝缘处理（参见“防水绝缘处理”），然后塞入墙壁出线孔（如果要侧方走线，请用十字螺丝刀打开图中标红的侧方出线口出线）。使用 5~7Kgf.cm 的扭矩拧紧自攻螺钉。



The cable outlet on the side
侧方出线口

📖 NOTE/ 说明

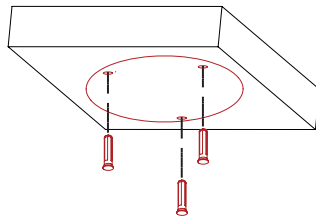
Before the camera is fixed, cable connection and waterproof insulation treatment should be done first. See "Cable Connection" and "Waterproofing and Insulation".

摄像机在固定前，请先做好线缆连接和防水绝缘处理，参见“连接线缆”和“防水绝缘处理”。

B Surface-mounted Installation/ 吸顶安装

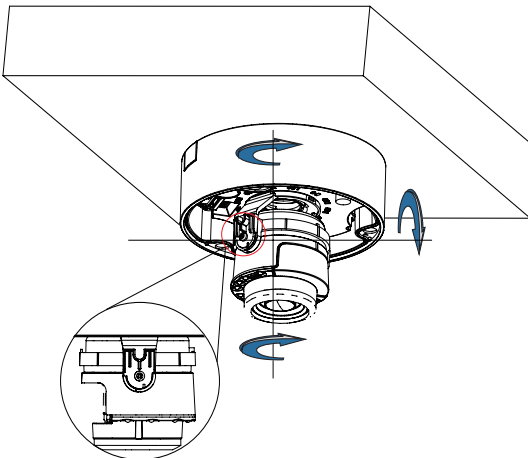
- 1 Paste positioning stickers in the camera installation position. Select a drill bit with a 20 mm diameter to drill two cable outlet holes. Select a drill bit with a 5 mm diameter and drill holes with a depth of about 40 mm in the specified positions marked by the stickers. Then use a claw hammer to drive expansion bolts into the holes.

将安装定位贴纸贴在摄像机安装位置。依照贴纸上的标注，选择直径为 20mm 的钻头，钻好两个出线孔。选择直径为 5mm 的钻头，钻取深约 40mm 的导孔，并使用羊角锤将膨胀螺栓打入钻好的孔内。



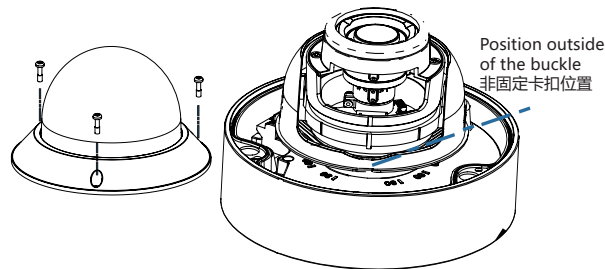
- 4 This camera uses the tri-axis design, allowing horizontal rotation of $\pm 175^\circ$, vertical rotation of $0 \sim 75^\circ$, and chipset rotation of $\pm 175^\circ$ to satisfy different installation angle. Use a Phillips screwdriver to loosen screws on the chipset, and adjust the surveillance angle. After the adjustment is complete, tighten the screws on the chipset. After the adjustment is complete, tighten the screws on the chipset.

该款摄像机为三轴工艺设计，水平方向可转动 $\pm 175^\circ$ ，垂直方向可转动 $0 \sim 75^\circ$ ，机芯可以转动 $\pm 175^\circ$ ，适应不同角度的安装。使用十字螺丝刀将固定机芯的螺丝拧松，调整监控角度，调整完毕后，拧紧固定机芯的螺丝。



- 2 Use a Phillips screwdriver to remove the transparent cover, lightly press the inner cover without blocking the two holes, and remove the inner cover.

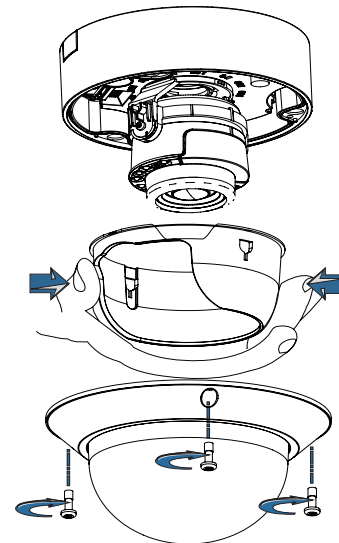
使用十字螺丝刀卸下透明罩，然后双指轻压内罩非固定卡扣位置，卸下内罩。



Position outside of the buckle
非固定卡扣位置

- 5 Lightly press the inner cover, and fix it to the chipset. Then align the transparent cover with the base through the tapped holes, close the transparent cover, and use a Phillips screwdriver to tighten the screws.

双指轻压内罩，将内罩卡槽对准卡扣，固定内罩，然后将透明罩和底座的螺孔位置对齐，合上透明罩并使用十字螺丝刀拧紧螺钉。

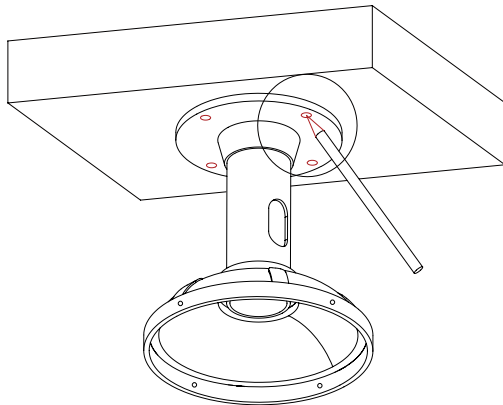


Device Installation/ 设备安装

C Ceiling-mounted Installation/ 吊装

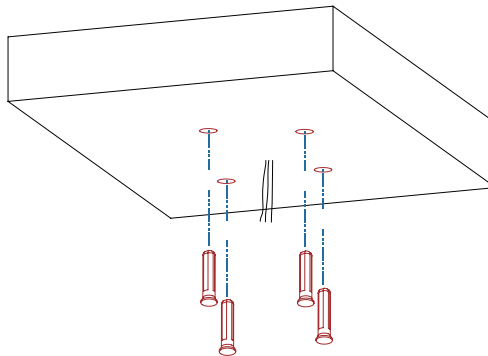
- 1 Place the ceiling-mount bracket to the required installation location, use a marker to mark the screw installation positions and drill holes in the marked positions.

将吊装支架放置于安装位置，使用记号笔绘制螺钉安装位置，并根据绘制的螺钉安装位置钻孔。



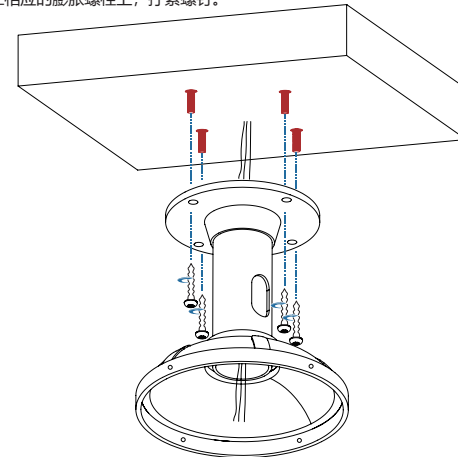
- 2 Obtain a drill bit with a 5 mm diameter and drill four 40 mm holes in the specified positions marked by the marker. Use a claw hammer to install an expansion bolt into the hole.

依照标记得位置，选择直径为 5mm 的钻头，钻取深约 40mm 的导孔，并使用羊角锤将膨胀螺栓打入钻好的孔内。



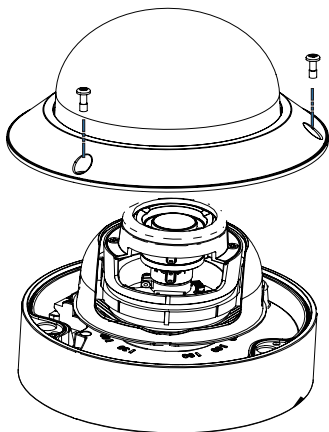
- 3 Thread the cables through the ceiling-mount bracket. Put the four expansion bolts through the four screw holes at the bottom of the ceiling-mount bracket, and tighten the screw.

将需要与摄像机尾线对接的线绳穿过吊装支架。将吊装支架底座上的 4 个螺孔套在相应的膨胀螺栓上，拧紧螺钉。



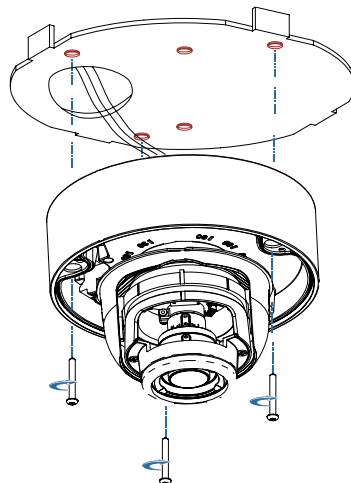
- 4 Use a Phillips screwdriver to remove the transparent cover.

使用十字螺丝刀将透明罩卸下。



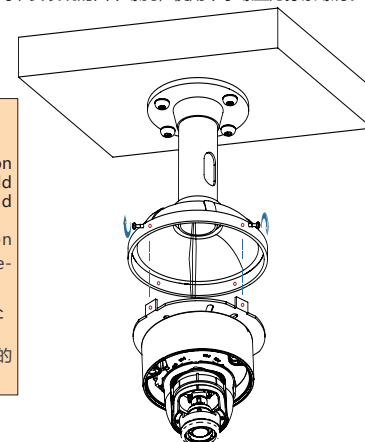
- 5 Align the tapped holes of the camera with installation slots on the ceiling-mount bracket plate, thread screws through the holes, and tighten the screws.

将摄像机的安装螺孔对准吊装支架安装盘上的对应安装槽，将螺钉穿过螺孔，拧紧螺钉。



- 6 Connect the cables to the tails of the camera, perform insulation operations on the cables (see *Cable Waterproofing and Insulation*). Align the tapped holes on the edge of the ceiling-mount bracket plate with the tapped holes on the installation bowl, and use a Phillips screwdriver to tighten the screws.

将线缆与摄像机的尾线连接，对线缆进行绝缘处理（参见“防水绝缘处理”）。将安装盘边上的螺孔对准安装碗的四个螺孔，使用十字螺丝刀拧紧螺钉。



NOTE/ 说明

Before the camera is fixed, cable connection and waterproof insulation treatment should be done first. See "Cable Connection" and "Waterproofing and Insulation".

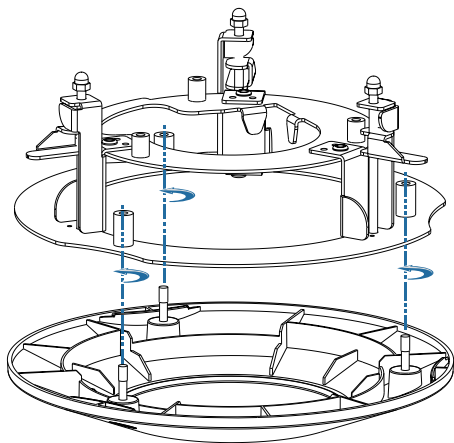
For details about subsequent installation operations, see steps 4 and 5 in B Surface-mounted Installation.

摄像机在固定前，请先做好线缆连接和防水绝缘处理，参见“连接线缆”和“防水绝缘处理”。后续安装的具体过程请参见“B 吸顶安装”中的 4-5 步骤。

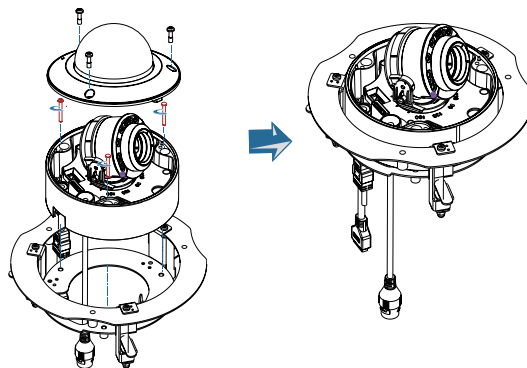
Device Installation/ 设备安装

D Embedded-mounted Installation / 嵌入式安装

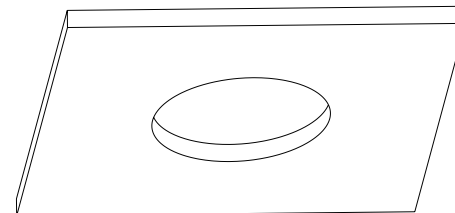
- 1 Remove the decorative box on the embedded bracket.
拧松嵌入式支架上的装饰盒，拆除装饰盒。



- 2 Use a Phillips screwdriver to remove the transparent cover and place the camera in the embedded bracket. Align the installation screws of the camera with the installation holes on the embedded bracket. Lead the M4 screws through the screw holes and fasten the screws.
使用十字螺丝刀将透明罩卸下，将摄像机装入嵌入式支架中，将摄像机的安装螺孔对准嵌入式支架安装盘上的对应安装槽，将支架自带的 M4 螺钉穿过螺孔，拧紧螺钉。



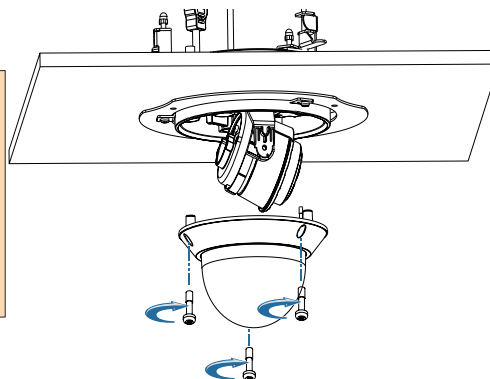
- 3 According to the size of the stickers. Drill a hole with a diameter of 178 mm on the ceiling.
按照贴纸尺寸，在天花板上打孔，直径为 178mm，厚度 3mm~35mm。



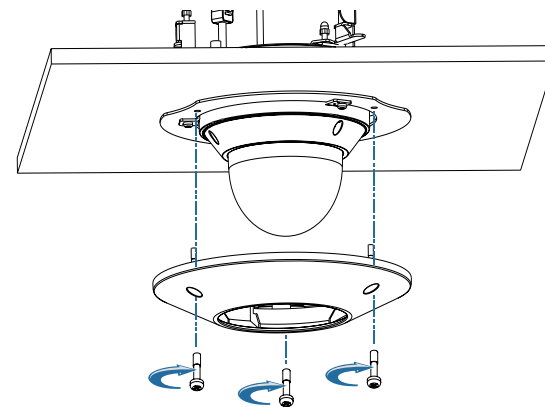
- 4 Connect the cables to the tails of the camera, perform insulation operations on the cables (see *Cable Waterproofing and Insulation*), Fix the camera and the embedded bracket on the ceiling. Fasten the screws and Undercut flat screw on the embedded bracket. Then, fix the embedded bracket on the ceiling. After the embedded bracket is fixed, adjust the shooting angle of the camera.

将线缆与摄像机的尾线连接，对线缆进行绝缘处理（参见“防水绝缘处理”）。将摄像机及嵌入式支架安装到天花板上，拧紧嵌入式支架上的螺丝和倒扣，将嵌入式支架固定到天花板上。固定好后，调整摄像机的监控角度。

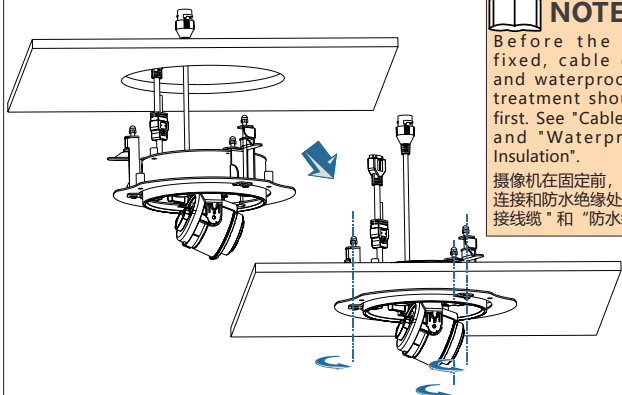
- 5 Align the transparent cover with the screw holes on the camera base and fasten the transparent cover with the Phillips screwdriver. And then tore off the protective film.
将透明罩和摄像机底座的螺孔位置对齐，合上透明罩并使用十字螺丝刀拧紧螺钉。然后撕掉透明罩保护膜。



- 6 Align the decorative box with the screw holes on the embedded bracket and fasten the screws. Then, the installation is complete.
将装饰盒和嵌入式支架上的螺孔位置对齐，拧紧螺丝固定，安装完成。



NOTE/ 说明
Before the camera is fixed, cable connection and waterproof insulation treatment should be done first. See "Cable Connection" and "Waterproofing and Insulation".
摄像机在固定前，请先做好线缆连接和防水绝缘处理，参见“连接线缆”和“防水绝缘处理”。

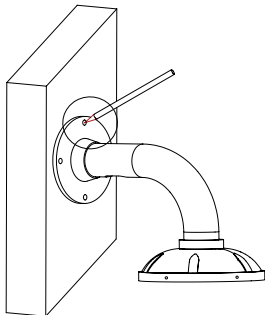


Device Installation/ 设备安装

E Wall-mounted Installation/ 壁装

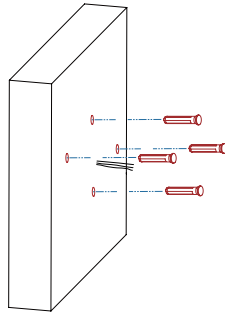
- 1 Place the wall-mount bracket to the required installation location, use a marker to mark the screw installation positions and drill holes in the marked positions.

将壁装支架放置于安装位置，使用记号笔绘制螺钉安装位置，并根据绘制的螺钉安装位置钻孔。



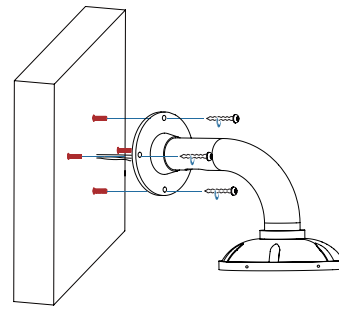
- 2 Obtain a drill bit with a 5 mm diameter and drill four 35 mm holes in the specified positions marked by the marker. Use a claw hammer to install an expansion bolt into the hole.

依照标记得位置，选择直径为 5mm 的钻头，钻取深约 35mm 的导孔，并使用羊角锤将膨胀螺栓打入钻好的孔内。



- 3 Thread the cables through the ceiling-mount bracket. Put the four expansion bolts through the four screw holes at the bottom of the ceiling-mount bracket, and tighten the screw.

将需要与摄像机尾线对接的线缆穿过吊装支架。将吊装支架底座上的 4 个螺孔套在相应的膨胀螺栓上，拧紧螺钉。



NOTE/ 说明

For details about subsequent installation operations, see steps 4 to 6 in C Ceiling-mounted Installation.

后续安装的具体过程请参见“C 吊装”中的步骤 4-6。

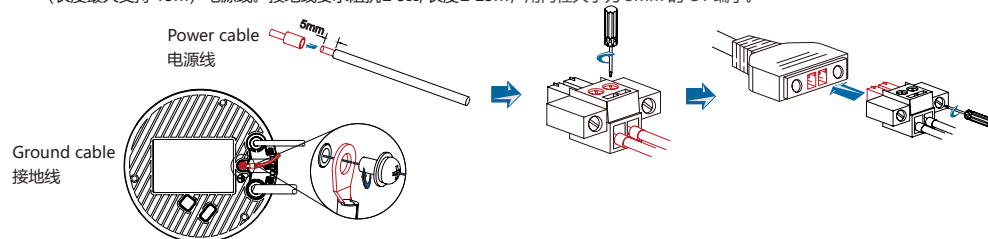
F Cable Connection/ 连接线缆

CAUTION/ 注意

- In areas prone to lightning strikes, the lightning arrester must be installed and grounded. 在易受雷击的区域，必须安装避雷器，避雷器必须接地。
- Strong and weak current cables must be kept at least 5 cm apart from each other. When connecting the cables to the device, take care to avoid connecting strong current cables to weak current interfaces or you will damage your device. 强电和弱电必须分开布线，两者间的距离不小于 5cm。线缆与设备连接时，禁止将强电接到弱电接口上，以免造成设备损坏。
- Wrap all pigtail cables in insulated, waterproof, rubber tape to prevent short circuits or water damage. Cutting off the pigtail cables will void your warranty. 请务必使用绝缘胶带和防水胶带对所有尾线进行绝缘和防水处理，以免造成短路和漏水。尾线不能剪断，若剪断，则无法维保。
- If multiple cameras use the centralized power supply mode (excluding PoE), the connectivity of the two wires of each camera's power cable need to be controlled through the same switch. Otherwise, the power module may be burned. 若多台摄像机采用集中供电方式（POE供电除外），每台摄像机电源线的 2 根芯线需经同一开关同时控制通断，否则可能存在设备电源模块烧坏风险。

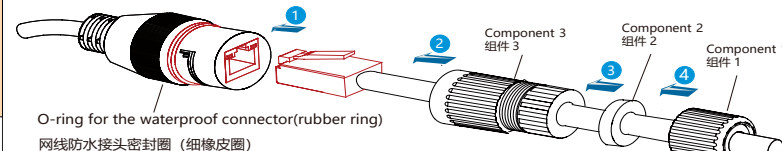
- 1 Connect the power cable and the ground cable. A bare wire supports the 1.5 mm² (length is less than or equal to 25 m) power cable at most, and a crimping terminal supports the 1.0 mm² (length is less than or equal to 20 m) or 0.75 mm² (length is less than or equal to 15 m) power cable. The ground impedance must be less than or equal to 5 ohms and the ground cable length is less than or equal to 25 meters. Use the OT terminal with an inside diameter of 3 mm.

连接电源线和接地线。接裸线最大支持 1.5mm²（长度最大支持 25m）电源线，配压线端子支持 1.0mm²（长度最大支持 20m）或 0.75mm²（长度最大支持 15m）电源线。接地线要求阻抗 ≤ 5Ω，长度 ≤ 25m，用内径大小为 3mm 的 OT 端子。



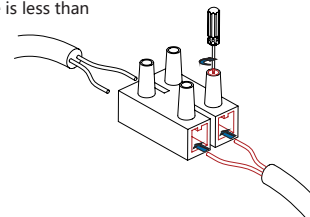
- 2 Connect the network cable. Loosen the components 1, 2, and 3 of the waterproof connector kit in sequence, thread the network cable through the kit, and install the components in the sequence marked in the following figure. The waterproof connector of the network cable must be secured tightly, or they may come loose later.

连接网线。先把网线接口上防水套件的组件 1、组件 2 和组件 3 依次旋转拆卸，然后穿入网线，再将各组件按如图所示顺序安装。网线防水接头务必拧紧到位，否则会有脱落风险。



- 3 Connect the alarm cable. It is recommended that twisted pair cables be used as alarm cables. The diameter of the cable core ranges from 22 AWG to 28 AWG. The impedance of the entire cable is less than or equal to 100 ohms.

连接告警线缆。告警线缆建议使用双绞线，线芯的线径为 22AWG ~ 28AWG，整条线路的阻抗 ≤ 100Ω。



Device Installation/ 设备安装

G Waterproofing and Insulation/ 防水绝缘处理

NOTE/ 说明

Waterproof and insulate all cables including power cables, network cables, and unused pigtails.

Before that, check the cabling and ensure that the camera runs normally to avoid reworkings.

The waterproof tape must cover the cable bundle from the insulation sheath all the way to the cable conduit (for example, a PVC tube). The tape must be wrapped tightly and there must be no gaps in the coverage or water will leak in.

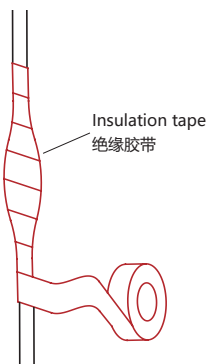
电源线、网线等所有的线缆，包括未使用的尾线都需要做防水绝缘处理。

做绝缘防水处理前请检查线缆是否接好并可正常工作，避免二次返工。

防水胶带务必从线缆束绝缘外皮开始缠绕至防护皮管（如 PVC 管），且尽量缠紧，且覆盖到位，以免漏水。

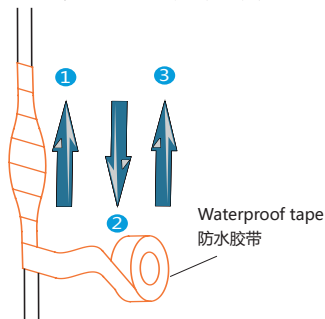
- 1 Wrap one layer of insulation tape around each cable joint.

用绝缘胶带缠绕每条线缆对接处，缠绕一层。



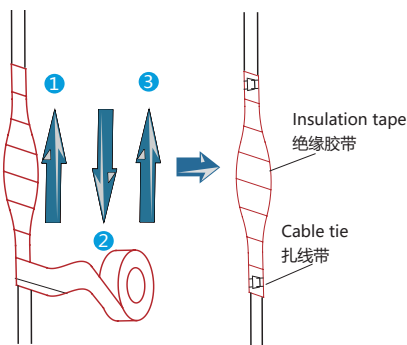
- 2 Stretch the waterproofing tape evenly to twice its original length. Then apply it for three layers from bottom to top, from top to bottom, and from bottom to top again.

均匀拉伸防水胶带，使其长度为原长度的 2 倍。再采用由下至上，由上至下，再由下至上的处理方式缠绕三层。



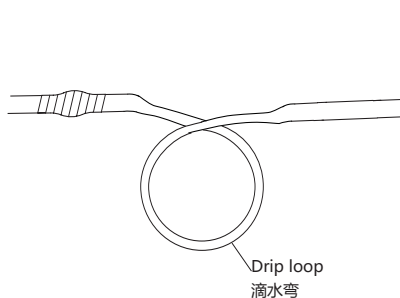
- 3 Apply three layers of insulation tape. Then, use cable ties to secure the both ends.

用绝缘胶带缠绕三层。最后用扎线带绑扎上下两端。



- 4 Cover the rest of the cabling in a conduit or with protective waterproof rubber tape. Make a drip loop as shown below to create an artificial lowest point of the cable.

使用防护皮管或者防水胶带，包住线缆其他部分，并制作滴水弯。滴水弯呈倒 Q 型，形成线缆的最低点。



Installation Verification/ 安装后检查

Verifying the Installation/ 安装后检查

After the device installation, check the following items to ensure that the device is installed properly.

设备安装完成后，请确认如下事项，以保证设备安装正确。

Check Items/ 检查项	Result/ 检查结果
All screws are fully tightened. 确认所有螺钉已经完全拧紧，以接合处不能偏移为准。	Yes/ 是 ☐ No/ 否 ☐
The camera is securely installed on the bracket or wall. 确认摄像机与支架或者墙壁等之间的安装是稳固可靠的。	Yes/ 是 ☐ No/ 否 ☐
Necessary protective measures have been taken for the IPC. IPC 设备有必要的防护，不易损坏。	Yes/ 是 ☐ No/ 否 ☐
The ambient temperature meets the device specifications. 确认工作的环境温度满足设备规格。	Yes/ 是 ☐ No/ 否 ☐
Insulation and waterproofing measures have been taken to protect cables installed in humid environments, and the drip loops are in correct positions. 设备安装在潮湿环境时，确认网线以及尾线已经做好绝缘防水处理，滴水弯位置正确。	Yes/ 是 ☐ No/ 否 ☐
The camera is grounded, and if it is powered by PoE, the PoE connection is grounded too. 确认摄像机已接地，如果是 PoE 交换机供电，则 PoE 交换机也已接地。	Yes/ 是 ☐ No/ 否 ☐
The protective film and fixing rubber strip have been removed from the lens and camera body respectively. 确认已撕掉摄像机镜头保护膜和机身固定胶条。	Yes/ 是 ☐ No/ 否 ☐
The camera can power on normally. 确认设备能够正常通电运行。	Yes/ 是 ☐ No/ 否 ☐
You can access the camera web portal using the IP address you configured. 确认能够使用配置好的 IP 地址登录设备 Web 页面。	Yes/ 是 ☐ No/ 否 ☐
On the camera web portal, you can view live video from the camera. 确认能够通过 Web 页面浏览实况。	Yes/ 是 ☐ No/ 否 ☐
You can view the surveillance scene on camera web pages and the image is clear, as shown in the following figure. 通过 Web 页面查看画面，确认要监控的画面在镜头监控范围内，且图像清晰。如下图所示。	Yes/ 是 ☐ No/ 否 ☐
In night vision mode, the surveillance area can be viewed clearly. 确认夜视情况下，能够看清楚监控区域。	Yes/ 是 ☐ No/ 否 ☐



- 1 You can view the correct and key surveillance scene on the web page.
通过 Web 页面查看，能监控到正确、关键的监控场景。
- 2 The delivered images are clear.
监控画面图像清晰。

Data Plan/ 数据规划		Web Operations/Web 操作	
IP address/IP 地址		Logging In to the Web Client/ 登录 Web 客户端	
Parameter 参数名	Description 参数解释	2 Enter the user name (admin) and password. For the first login, set the password as prompted. 输入用户名admin和密码。首次登录，请按照提示设置密码。 3 Click Log In. 单击“登录”。	
IP address assignment method 获取IP方式	- Automatic: The system automatically configures the IP address, subnet mask, gateway IP address, and DNS. 自动获取IP地址：系统将自动配置IP地址、子网掩码、网关地址和DNS。 - Manual: You need to manually set the IP address, subnet mask, gateway IP address, and DNS. 使用下面的IP地址：需要用户手动配置IP地址、子网掩码、网关地址和DNS。	Setting Basic Network Parameters/ 配置基本网络参数	
IP address IP地址	- IP addresses starting with 127 are not valid. You must enter an IP address starting with another value from 1 to 223. 以127开头的IP地址无效，请输入介于1和223之间的其它数值。 - If the camera is passively registered with the platform using the ONVIF or SDK, only the IP address needs to be configured. 通过ONVIF或者SDK被动注册时，仅需要配置IP地址即可。	1 Log in to the web client as the admin. 以管理员用户 admin 账号登录 Web 客户端。 2 Choose Settings > Network. 选择“高级配置 > 网络”。 3 Set the network parameters as planned, for details about how to set basic network parameters, see Configuration Guide. 根据规划的数据配置基本网络参数，基本网络参数的具体配置方式请参见《配置指南》。	
GB/T 28181		Setting Platform Connection Parameters/ 配置平台对接参数	
Parameter 参数名	Description 参数解释	1 Log in to the web client as the admin. 以管理员用户 admin 账号登录 Web 客户端。 2 Choose Settings > Network > Platform Connection. 选择“高级配置 > 网络 > 平台对接参数”。 3 Set the platform connection parameters as planned, for detail about how to set platform connection parameters, see Configuration Guide. 根据规划的数据配置平台对接参数。平台对接参数的具体配置方式请参见《配置指南》。	
Platform IP 平台IP	IP address of the platform server. This parameter is mandatory. 监控平台所在服务器的IP地址。必须设置。	 NOTE/ 说明 The default IPC video coding protocol is H.265. Verify that the connected surveillance platform supports H.265. Otherwise, see the Configuration Guide to modify the video coding protocol used by your IPC. 摄像机出厂默认编码协议为H.265，请务必确认所对接的监控平台是否支持H.265编码协议，否则请参见《配置指南》修改摄像机编码协议。	
Port number 端口号	Port number of the platform server. This parameter is mandatory. 监控平台所在服务器的端口号。必须设置。		
Device ID 设备ID	Unique ID that the video surveillance platform allocates to the camera. The value of this parameter must be the same as the first 20 digits in the device ID (the value of Code on the IVS platform) configured on the video surveillance platform. If they are different, the camera will fail to connect the video surveillance platform. 监控平台分配给前端设备的唯一标识。必须与平台配置的设备ID（在IVS平台中，该参数名为 编码 ）的前20位保持一致，以免造成对接失败。	Appendix/ 附录	
Login name 登录名	User name used to register the camera with the video surveillance platform. The value of this parameter is in the <i>login_name@domain name</i> format. The login name indicates the device ID. The domain name consists of 10 digits. 用于注册到监控平台。格式为：登录名@域名。登录名为设备ID，域名为自定义10位数字。	Troubleshooting/ 常见问题处理	
Password 密码	Password used to register the camera with the video surveillance platform. This password must be the same as the registration password configured on the video surveillance platform. 设备注册到平台时的注册密码。必须和监控平台中的注册密码保持一致。	Q: After you enter the IPC IP address in the address box and press Enter, the Internet Explorer displays "There is a problem with this website's security certificate." 问：在 IE 浏览器中输入设备 IP 地址后，网页显示“此网站的安全证书有问题”？ A: Click Continue to this web (not recommended) to continue browsing this website. Then, install the root certificate or upload your own certificate. For details, see Configuration Guide. 答：单击“继续浏览此网站（不推荐）”，继续访问设备 Web 页面，然后安装根证书或上传用户自己的证书文件，具体操作请参见《配置指南》。	
Server code 服务器编码	The 20-digit server code complies with the GB/T 28181 protocol. GB/T 28181服务器编码。自定义输入20位数字。	Q: After the root certificate is installed, the Internet Explorer still displays "There is a problem with this website's security certificate." After you click Continue to this web (not recommended) to access the login page, the "Certificate Error" message is displayed in the address box. 问：根证书下载安装完成后，IE 仍提示“此网站的安全证书有问题”，单击“继续浏览此网站（不推荐）”进入登录页面后，地址栏中出现“证书错误”提示。 A: Choose Setting > System Configuration > Configuration Management and upload a valid certificate. After the certificate is uploaded, restart the browser. 答：选择“配置 > 系统配置 > 配置管理”，上传用户自己的合法证书，完成后重新启动浏览器。	
Web Operations/Web 操作			
Logging In to the Web Client/ 登录 Web 客户端			
1 Open Internet Explorer, enter the IPC IP address, and press Enter. The IP address can be set automatically via DHCP, or a static IP address can be used (default: 192.168.0.120). 在Internet Explorer地址栏里输入摄像机的IP地址，IP地址默认通过DHCP自动获取，也可以手动进行设置（默认为192.168.0.120），按“Enter”键。			
 NOTE/ 说明 - Supported browsers: Internet Explorer 9-11, Google Chrome 32 and later versions, and Mozilla Firefox 35-51. Google Chrome 45 and later versions require installation of Internet Explorer Tab plug-in. 支持的浏览器：Internet Explorer 9~11、Google Chrome 32及以上版本、Mozilla Firefox 35-51版本。其中Google Chrome 45及以上版本需安装Internet Explorer Tab插件。 - When using HTTPS to access a camera, you must enable TLS 1.1 or TLS 1.2. Otherwise, the camera web page cannot be displayed. 使用HTTPS协议访问摄像机时需要启用TLS 1.1或TLS 1.2，否则无法打开摄像机网页面。 - Please open the web browser on your PC as the administrator. 请使用PC的管理员身份打开浏览器。			

Appendix/ 附录

Troubleshooting/ 常见问题处理

Q: What can I do when the message "Your request for URL has a security risk. You can access this URL by clicking the Continue, I accept this risk. button. If you make this choice, it means that you accept this risk." is displayed during a login attempt?

问: 通过 web 页面登录摄像机时显示“您访问的链接存在安全风险。若您接收此风险, 请点击“继续, 我接受此风险”按钮继续访问”, 应如何处理?

A: Choose **Tools > Internet Options**, click the **Connections** tab, click **LAN Setting**, and uncheck **Use a proxy for your LAN**.

答: 选择“工具 > Internet 选项”, 选择“连接”页签, 点击“局域网设置”, “为 LAN 使用代理服务器”选择框去掉勾选。

Specifications/ 技术参数

Specifications/ 技术参数

Item 名称	Description 说明
Image Sensor 图像传感器	1/1.8-inch 2 megapixel progressive scan 1/1.8"200万像素逐行扫描
Power Supply 电源	DC12V±25%, AC24V(-25%, +24.9%), PoE+. Do not support the power supply, no priority power supply. DC12V±25%, AC24V(-25%, +24.9%), PoE+, 不支持电源热备, 无优先供电。
Power Consumption 功耗	Max/最大值: 15W Typical/典型值: 6.5W
Corrosion resistance 防腐等级	Applicable to areas 1500 meters away from the seaside (far away from chemical industry or heavily polluted areas) 适用于距离海边1500米以外的区域 (远离化工、重污染区)
Operating temperature 工作温度	-30~50°C



NOTE/ 说明

The parameters listed in the table are for reference only. To obtain the details about the technical specifications, log in to <http://e.huawei.com>.

表格中所列参数仅供参考, 您可以登录 <http://e.huawei.com>, 查看对应的彩页, 获取设备详细技术参数。

Supplier's Declaration of Conformity (SDoC)

Unique Identifier: trade name: *HUAWEI*; product name: *Network camera*; model number: *X3221-I*

Responsible Party- U.S. Contact Information

Huawei Technologies USA Inc.

5700 Tennyson Parkway, Suite 500

Plano, Texas 75024

Main: 214-919-6000 / TAC Hotline: 877-448-2934

FCC Compliance Statement (for products subject to Part 15)

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1)

This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Warranty Card



Thank you for choosing products of Huawei Technologies Co., Ltd. (Huawei). To be entitled for warranty service for the product, please read the following warranty statements carefully.

1. Warranty Period

Unless otherwise stated specifically by Huawei, the following periods apply:

You are entitled a free warranty service of at least 12 months for the camera you purchased from Huawei. The specific warranty duration is subject to the sales contract.

The start date of the warranty:

The warranty starts on the 90th day after the date of the product shipment from Huawei, or the date of receiving service request, whichever is earlier.

Notes:

1. If there is any conflict with contract terms and conditions, the contract terms and conditions shall prevail.
2. When you purchase a product from Huawei, please confirm the date when the product will be shipped from Huawei, and check other warranty-related information.
3. For expansion and replacement parts, you are entitled to either of the following warranties (whichever is longer):
 - (1) A 90-day warranty starting from the date the replacement parts are shipped
 - (2) The remaining warranty of the original equipment
4. Warranty service is provided for the lithium battery modules for the S series switches, but the terms related to hardware warranty service response time in the **Enterprise Warranty Policy** do not apply to the lithium battery modules.

2. Service Guidelines

This warranty card entitles you to free warranty service within the warranty period.

Technical Support: Visit <http://e.huawei.com>, click **Contact Us** at the upper right corner of the page, and select your country to obtain contact information of Huawei local office.

TAC Support: Visit <http://e.huawei.com> and choose **Contact Us > Service Hotline** to find the service hotline available in your country.

Complete the form below and keep for ready reference:

Product supplier: _____

Supplier telephone number: _____

Product serial number: _____

保修卡



尊敬的用户，感谢您使用华为技术有限公司（以下简称华为）的产品，请填写保修卡内容，并将下面的保修卡厂家留存联寄回华为公司，华为公司会登记备案，并保证您的以下权益：

1.您购买的主机可获得最少12个月的设备免费维修服务，合同中有约定的，以销售合同为准。

2.保修期起始时间计算方式：

发货之日起九十（90）日或买方第一次申请保修服务之日起孰早开始计算，最晚保修起算时间不超过发货之日起九十（90）日。

3.请注意：

(1) 在购买产品时，为保障您的权益，请确认产品从华为的发货日期等保修相关信息。

(2) 扩容部件与故障更换件的保修期为华为发货之日起90天，或者跟随主机原有的剩余保修期服务，以两者中较长的时间为准。

(3) 免费维修服务仅限于主机（系列主板、电源模块、风扇模块、通信模块、硬盘）和相关辅助部件。

(4) S系列交换机配套的锂电池模块提供保修，但不适用《标准保修说明书》的硬件返修服务响应时间条款。

4.用户可凭保修卡享受保修期内的基本保修服务，服务的详细内容可查看《企业产品保修概览》，该保修说明书可在华为企业业务网站（<http://e.huawei.com>）查询。

5.中文保修卡仅适用于中国大陆。

●华为公司Help Desk热线：400-822-9999（7*24小时）

●商业分销产品授权服务中心网站：<http://e.huawei.com>

用户名称：_____

产品型号：_____

产品条码：_____

购买日期：_____年____月____日

经销商：_____

详细地址：_____

邮编：_____ 电话：_____

传真：_____ E-mail：_____

经销单位：（盖章）_____

（用户留存）

保修卡须经销商盖章方有效

保修卡（经销商留存）



用户名称：_____

详细地址：_____

邮编：_____ 电话：_____

传真：_____ E-mail：_____

产品条码：_____

购买日期：_____年____月____日

经销商：_____

经销单位：（盖章）_____

保修卡（厂家留存）



用户名称：_____

详细地址：_____

邮编：_____ 电话：_____

传真：_____ E-mail：_____

产品条码：_____

经销单位：（盖章）_____

重要提示： 请将此联寄回以下地址

广东省东莞市松山湖科技园新城大道6号

华为南方工厂C7-1F 华为维修服务中心

电话：0755-28560555（5*8h: 8:30-12:00, 13:30-18:00）

邮编：523808

邮附件上注明保修卡

Appendix/ 附录

Security Precautions/ 安全注意事项

Carefully read and strictly comply with the following instructions. Pay special attention to the alarm details in this manual:

请仔细阅读本说明并严格遵守，留意手册中的所有警告信息。

- The power adapter to be used by the device must meet the input voltage and current requirements described on the device label.

设备所使用的电源适配器必须满足设备标签上注明的电源输入电压和输入电流要求。

- In areas prone to lightning strikes, a lightning arrester must be installed and grounded.

在易受雷击的区域，必须安装避雷器，避雷器必须接地。

- If a battery is replaced by an incorrect type, the batter may explode. Dispose of used batteries according to the instructions.

如果更换不正确的电池规格会有爆炸的风险，请按制造商说明书处理使用过的电池。

- This is a class A product. In a domestic environment this product may cause radio interference. Users may be required to take compensatory measures.

此为A级产品，在生活环境中，该产品可能会造成无线电干扰。在这种情况下，可能需要用户对干扰采取切实可行的措施。

- Use a soft dry cloth when cleaning the camera body. Do not use strong or abrasive alkaline cleaners or volatile solvents such as alcohol, benzene, or chemical thinners.

清洁机身可用柔软的干布擦拭，请勿使用如酒精、苯或稀释剂等挥发性溶剂或者强烈的、带有研磨性的碱性清洁剂。

- Keep the device away from water or any other liquids. Take proper waterproofing measures.

禁止让任何液体流入设备中，必须做好防水措施。

- Keep the device away from heat sources, and fire sources (such as heating apparatus or candles), and strong magnetic fields (for example, high-voltage power distribution cabinets).

安放设备时请远离热源、裸露的火源（例如电暖器、蜡烛等）和强磁场环境（例如高压变电箱）。

- Avoid any unauthorized modifications on the design of the structure, security, or performance.

未经授权，任何单位和个人不得对设备进行结构、安全和性能方面的改动。

- Installation and maintenance must be performed by professional technical engineers or system installation engineers. Installation and maintenance must be performed by professional technical engineers or system installation engineers.

有关本装置的所有安装维修工作均应由专业的维修技术人员或系统安装人员来完成。

- If the installation environment ever exceeds 50°C, install the product in an area accessible only to professional personnel.

当该产品安装区域的最高温度超过50°C时，该产品需要安装在仅能由专业人士接触到的受限制区域。

- Use product-attached auxiliaries and recommended fittings.

请使用产品配套的附件以及厂商推荐的配件。

- Carry a device by the device body. Do not pull the pigtails.

搬运设备时，使用双手合抱机身将摄像机捧起，禁止提拉尾线。

- Comply with related laws and regulations, and respect legal rights of others when using this device. If a camera is installed in a public place, post a clearly visible notice stating, "You have entered an electronic surveillance area."

使用本设备时应遵循相关的法律法规，尊重他人的合法权利。如果您在公共场所安装摄像机，请在醒目的位置给予提示：您已进入电子监控范围。