

# NVR1821快速安装指导

NVR1821 Installation Guide

**KEDACOM**



## 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。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。

获取最新文档请联系产品供应商。

## 二安全说明

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，责任由用户承担。

- 请使用满足安全电压要求的电源。
- 如果设备工作不正常，请联系厂家或最近的服务中心。不要以任何方式随意拆卸或修改设备。
- 请不要将较重的物品摆放在NVR上，并防止设备从高处摔落或受强烈敲击。
- 避免将产品暴露在非用户手册所示的工作环境下使用。

工作环境	
工作电源	AC 100 ~240V 50 ~60Hz 2.0A
温度	-10℃ ~55℃
湿度	10%~90% (无凝结)
大气压	70kPa~106kPa

- 使用时不可让任何液体流入NVR。
- 当运送NVR时，请重新以出厂时的包装进行包装，或用同等品质的材质包装。
- 需要替换部件时，请事先与经销商联系，更换指定型号的部件，或与原部件具有相同特性的部件。擅自使用其它部件进行替换，后果自负。
- 锂电池安全警告

设备内部使用的是锂电池，使用其他型号的电池可能会有爆炸危险。

更换电池时，请勿将旧电池掷入火中或与生活垃圾一起处理。

- 安装设备前，请先检查机房及四周的洁净度、防静电、防干扰、防雷击是否符合要求。若不符合，请不要急于安装设备，以免对设备造成损害。

## 洁净度

NVR1821对机房内的灰尘含量及粒径要求如下表所示：

最大直径 (um)	0.5	1	3	5
最大浓度 (颗粒数/m <sup>3</sup> )	$1.4 \times 10^7$	$7 \times 10^5$	$2.4 \times 10^5$	$1.3 \times 10^5$

## 防静电

当静电超过一定限度时，会对设备产生一定的破坏作用。在与设备连接的通信网中，静电感应主要来自两方面：一是室外高压输电线、雷电等外界电场，二是室内环境、地板材料、整机结构等内部系统。因此，为防止静电的破坏，应保持：

设备及地板良好接地；

室内防尘；

温度、湿度条件适宜。

## 防干扰

设备使用中可能的干扰源（无论是来自设备，或应用系统的外部与内部）都是以电容耦合、电感耦合、电磁波辐射、公共阻抗（包括接地系统耦合）的传导方式对设备产生影响。因此，为有效抗干扰，应做到：

供电系统采取有效的防电网干扰措施；

设备工作地最好不要与电力设备的接地装置或防雷接地装置合用，并尽可能保持远距离；

远离强功率无线电发射台、雷达发射台等高频大电流设备；

必要时采取电磁屏蔽的方法。

## 防雷击

在雷击强度超过一定范围时可能对设备造成损害，为了有效防雷，应做到：

保证机箱外壳用接地线接地良好；

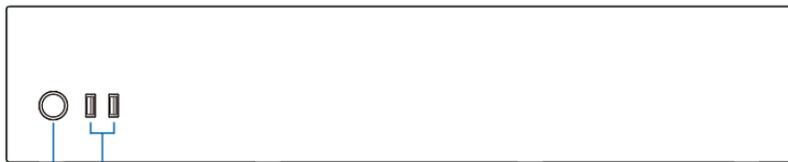
保证交流电源插座的中性点接地良好；

为增强电源的防雷击效果，可在电源的输入前端加入电源避雷器。

**【说明】**更多信息见附带光盘中的《NVR网络录像机用户手册》。

## 三产品外观

### 前面板



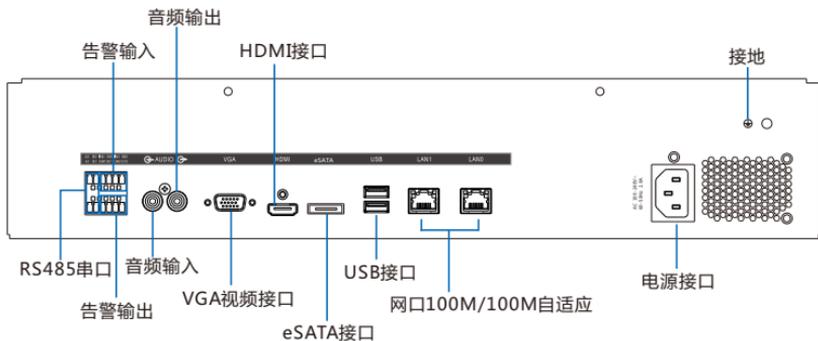
电源按钮

USB接口

尺寸：88 mm x 443 mm x 461 mm

重量（不含硬盘）：7.6 kg

### 后面板



RS485串口

告警输出

音频输入

VGA视频接口

eSATA接口

USB接口

网口100M/100M自适应

电源接口

接地

## 四安装设备

### 1. 安装前检查

#### • 检查包装箱物品

在安装设备之前，请先检查包装箱中的设备及组件，确保实际物品与装箱清单相符且物品无损坏现象。若发现问题，请及时与供应商或客服联系。

#### • 开工必备

安装NVR，以下为必备组件：

NVR1821网络录像机

电源线

NVR产品光盘

网线

绿色端子台(两个六位，一个两位)

视音频线

机箱挂耳

SATA数据线(150mm,7P-7P,AB)

SATA数据线(300mm,7P-7P,AB)

十字槽小盘头螺钉#6-32X6 (固定硬盘)

十字槽沉头螺钉M4\*10

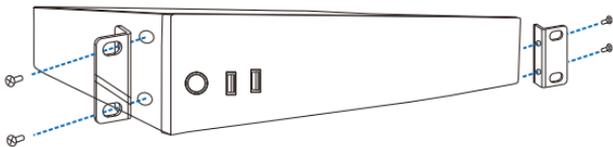
### 2. 将NVR安装到机架上

安装前，请确保安装环境通风良好，并安装硬盘，硬盘安装方法见附录部分。

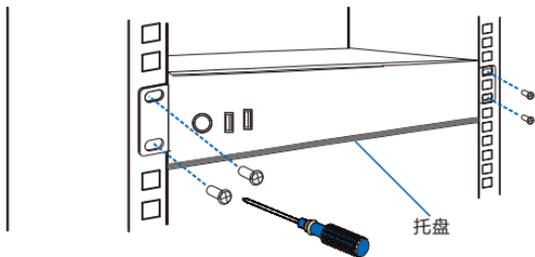
将NVR安装到机架上，必须要有托盘。

安装方法:

- 1) 将两个挂耳分别用螺钉固定在设备的两侧,如下图所示.

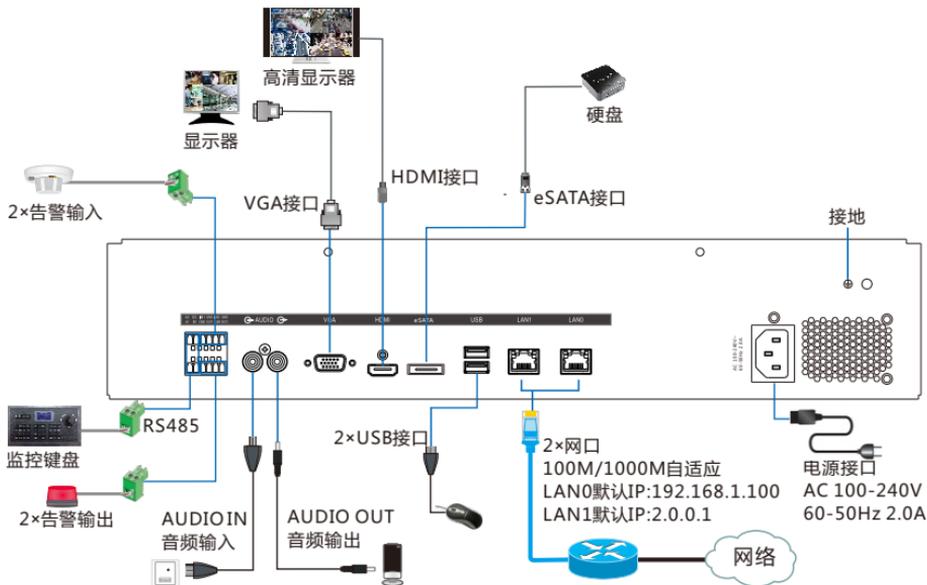


- 2) 将设备水平放在托盘上，使两侧挂耳的螺孔与机架上的螺孔重合，然后用螺钉固定。



### 3. 线缆连接

设备摆放好后，开始线缆连接。  
按照如下图所示，进行线缆连接。



## 4. 上电、开机

连接完成后，给设备上电，开机。

开机后自动进入画面浏览并录像。点击任意选项，系统将弹出用户登录对话框，如图。

默认用户名：admin。

初始密码：admin123。



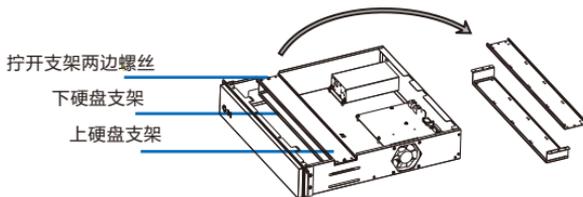
点击弹出软键盘

登陆设备后，可通过图形界面(GUI)对NVR进行配置。具体配置方法可参考随机光盘手册《NVR网络录像机用户手册》。

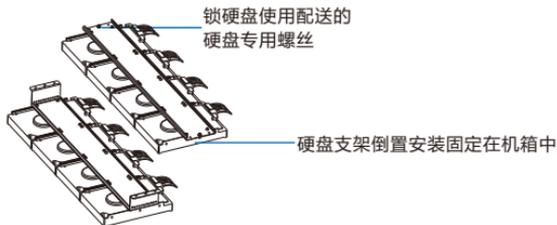
用户也可选择在PC机上通过NVRStation进行初始配置，配置方法可参考随机光盘手册《NVRStation操作手册》和客户端帮助文档。

## 附 硬盘安装方法

**1** 将机箱上盖打开，逆时针拧开弹簧螺丝，将硬盘支架取下。

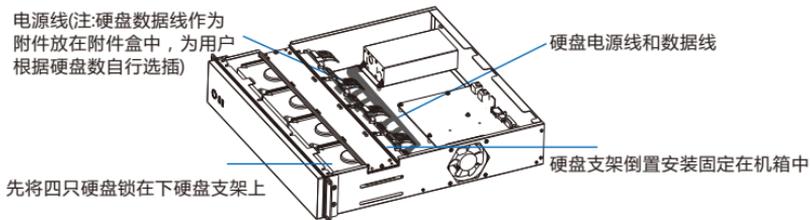


## 2 将硬盘分别锁在上下硬盘支架上。



## 3 将装满硬盘的硬盘支架固定在机箱内。

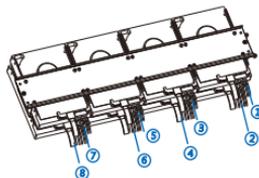
电源线(注:硬盘数据线作为附件放在附件盒中,为用户根据硬盘数自行选插)



## 4 按线序分别将硬盘电源线和数据线插在硬盘上。

- 1-P1
- 2-P2
- 3-P3
- 4-P4
- 5-P5
- 6-P6
- 7-P7
- 8-P8

注:硬盘数据线的线序,需与主板上的插座对应,如图:



磁盘序号对应关系

- 【说明】** 1) 硬盘安装需将四颗螺丝都拧上,且四颗螺丝都拧紧;  
2) 建议使用兼容硬盘列表中推荐的硬盘型号,兼容硬盘列表见随机光盘手册。

## 保修说明

本保修卡适用于您购买的本公司系列产品。

- 1.终身保质，免费保修期一年，如合同中有另行约定则以合同为准。
- 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：

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## About the NVR1821

### 1 Product Introduction

The NVR1821 is a turnkey solution for video surveillance and video recording. The NVR1821 supports Open Network Video Interface Forum (ONVIF) and Real Time Streaming Protocol (RTSP) interoperability standards. Additionally, the NVR1821 features native integration to cameras and encoders from third party manufacturers, therefore making it an open system. The advanced system capabilities make the NVR1821 easy to use with functions like Automatically Adding Devices and One-Click Partition and Formatting and meet various customer needs with functions like Image Flip and Privacy Mask for every day security users to advanced video surveillance users.

The NVR1821 works with the following management system and applications:

- NVR Station: is a complete system for device management, video surveillance, and video recording.
- NVR Station Web: is a web-based application of the NVR Station.
- Mobile NVR Client: is an iOS/Android-compatible mobile application of the NVR Station.

### 2 Product Appearance

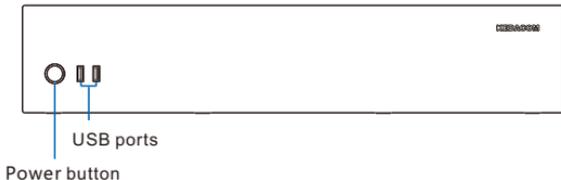
#### 2.1 Front Panel

On the front panel of the NVR1821, you can see one power button and two USB ports.

The following guidelines help you read the power button:

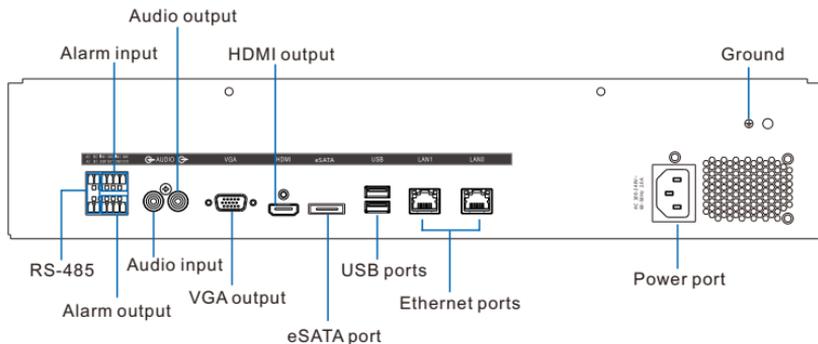
- When the power button is blinking blue once per second, the system is starting up.
- When the power button is steady blue, the system is operating.

The following figure shows these indicators.



## 2.2 Rear Panel

The following figure shows the rear panel of the NVR1821.



## Installing the NVR1821

### 1 Preparations

#### 1.1 System Specifications

Ensure that the specifications of the NVR1821 are complied with. For example, the operating temperature for the NVR1821 must be within the range of  $-10^{\circ}\text{C}$  to  $55^{\circ}\text{C}$ . For the physical specifications of the NVR1821, see chapter 3 "Physical Specifications."

#### 1.2 Equipment Cleanliness

The following table provides the mapping between the particle diameter range and number of particles per cubic meter.

Particle Diameter Range	Number of Particles per Cubic Meter
[0, 0.5]	$1.4 \times 10^7$
[0.6, 1]	$7 \times 10^5$
[1.1, 3.0]	$2.4 \times 10^5$
[3.1, 5.0]	$1.3 \times 10^5$

You must install the NVR1821 in an environment as free from dust and foreign conductive material (such as metal flakes from construction activities) as is possible.

### 1.3 ESD

To reduce the effects of electrostatic discharge (ESD), you should observe the following guidelines.

- Wear a grounding wrist strap. If a grounding wrist strap is unavailable, touch an unpainted metal surface on the appliance chassis periodically to neutralize any static charge.
- Keep components in their antistatic packaging until they are installed.
- Avoid wearing clothing made of wool or synthetic materials.
- Ensure that the NVR1821 is well grounded.
- Keep the area around the NVR1821 clean, free of clutter, and well ventilated.
- Ensure that the operating temperature and the relative humidity within the range complying with the NVR1821.

### 1.4 EMI

To shield electromagnetic interference (EMI), you should observe the following guidelines:

- Keep the ground system of the NVR1821 away from that of the power supply system or lightning protection system.
- Place the NVR1821 away from high-frequency devices, such as radio or radar stations.
- When necessary, deploy EMI shielding devices.

## 2 Unpacking

Follow the following steps to unpack the system:

- 1) Inspect the package to make sure that it has not been damaged.  
If you find damage, contact the local authorized Kedacom agent.
- 2) Open the package and check whether any item on the packing list is missing.
- 3) Take all items out of the package and check whether any item is in poor condition.  
If you find damage, contact the local authorized Kedacom agent.

## 3 Installing Disks

The NVR1821 can be mounted on a 19-inch rack and it is 2U high. Before mounting the NVR1821 on a 19-inch rack, you must install disks.

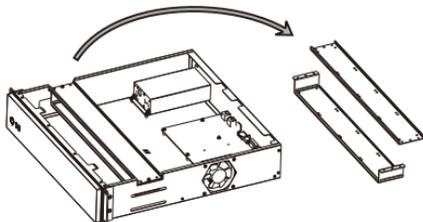
If you do not want to install a disk:

- You cannot use the recording function.

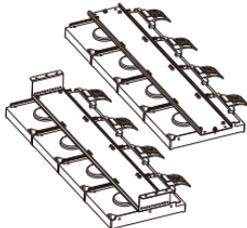
- When the NVR1821 starts operating and detects that no disk is installed, the beeper will go off and an alarm will be generated. To clear the alarm, on the OSD of the NVR, choose **Main Menu > Alarm > Active Alarm**, and then select the alarm and click **Clear**.

To install a disk:

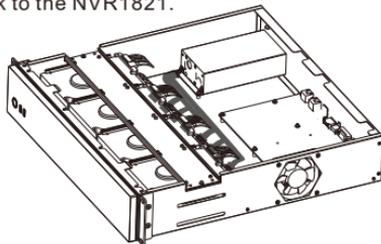
1. Use a screwdriver to remove the cover of the NVR1821.
2. Use a screwdriver to uninstall the upper- or lower-layer disk support from the NVR1821.



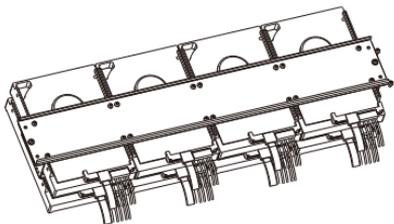
3. Secure the disk to the disk support with the four included screws.



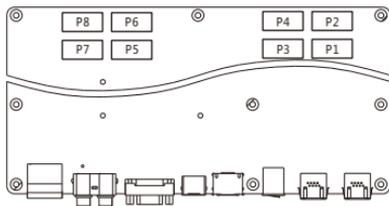
4. Install the disk support back to the NVR1821.



5. Connect a SATA power cable and a SATA data cable to the disk.



The following figure shows the sequence of disk slots.



6. Before installing the cover back to the NVR1821, ensure that no dust or particle is left inside the NVR1821.

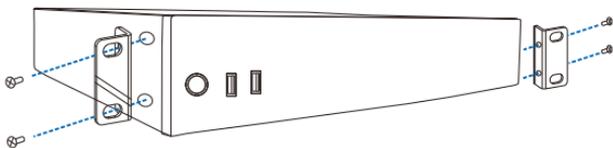
The NVR1821 is equipped with a fan. However, the fan can draw dust and other particles, causing contaminant buildup inside the NVR1821, which can result in system malfunction.

7. Use a screwdriver to install the cover back to the NVR1821.

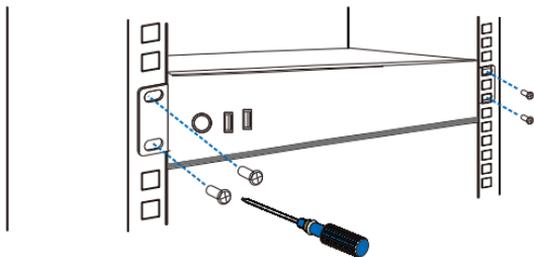
#### 4 Installing the NVR

In a well ventilated area, install the NVR1821 in a 19-inch rack as follows:

1. Choose a suitable location for the rack that is near a grounded power outlet.  
Ensure that the rack is at least 0.6 m far away from the wall.  
Leave at least 1.5 m of space in the front of the NVR1821.
2. Install the chassis provided by the rack manufacturer.
3. Secure two L-shaped hangers to the NVR1821 with the four included screws.



4. Place the NVR1821 on the chassis.
5. Fasten the hangers to the rack with screws provided by the rack manufacturer through the four holes in the hangers.



6. Connect the green-yellow wire to the ground bolt of the NVR1821.
7. Connect the LAN0 network port to the Internet.  
Depending on onsite conditions, connect the LAN1 network port to the Internet.  
You are advised to use RJ-45 network cables.
8. Connect the NVR1821 to a display that provides an HDMI and/or VGA port.
9. Connect the power cable to a power outlet.

**[Note]** By default, the NVR1821 is switched on as soon as it is connected to a power outlet. To switch off the NVR1821, click the related button on the OSD of the NVR1821 or on the NVR Station. To switch on the NVR1821, press the power button on its front panel. You can connect the NVR1821 to other devices (for example, a speaker). However, this document does not provide the corresponding details.

## 5 Power-on Self-Test

After the system is started up, check whether the status of the power button on the front panel is normal.

- If yes, the system is operating properly.
- If not, contact the system administrator or the local authorized Kedacom agent.

## 6 Product Care

### 6.1 Lightning Protection

To prevent the risk of lightning, you are advised to ensure the following:

- The NVR1821 is well grounded.
- The green-yellow wire is properly connected to the ground bolt of the NVR1821.
- The connection between the natural points of alternating current (AC) outlets and the earth ground is normal.
- Based on onsite conditions, install lightning arrestors.

### 6.2 Lithium Battery Replacement

The system clock uses the CR2032 button cell lithium battery. When the battery loses its charge, the system may malfunction. You must call the local authorized Kedacom agent to replace the battery. Do not attempt to replace the battery yourself.

Dispose of used batteries according to the manufacturer's instructions. If instructions are unavailable, contact your local waste disposal agency to learn about the nearest battery recycling place.

### 6.3 Miscellaneous

Do not place heavy objects on the NVR1821.

Do not block the air vent.

Switch off the NVR1821 if you want to let it idle for a long period of time.

Regularly check the status of hubs and switches to ensure that the NVR1821 is properly connected to the transport network.

## Physical Specifications

The following table provides the physical specifications of the NVR1821.

<b>Power</b>	100V AC to 240 V AC
<b>Operating frequency</b>	50 Hz to 60 Hz
<b>Rated power</b>	<40 W (excluding disks)
<b>Operating temperature</b>	-10 °C to 55°C
<b>Relative humidity</b>	10% to 90% (non-condensing)
<b>Atmosphere pressure</b>	70 kPa to 106 kPa
<b>Altitude</b>	-60 m to 3000 m
<b>Size(height x width x depth)</b>	88 mm x 443 mm x 461 mm
<b>Weight</b>	7.6 kg (excluding disks)

## **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 by the end-user purchaser (hereinafter referred to as "Warranty Period"). 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 installation 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：**800-828-2866** **400-828-2866**

**KEDACOM**

**苏州科达科技股份有限公司**

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