Hytera

DIGITAL PORTABLE RADIO
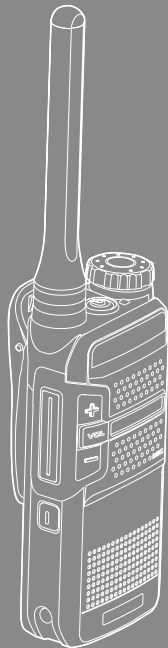
数字手持终端

OWNER'S MANUAL

使用说明书

Preface

Thanks for your favor in our product. This manual provides guidance for you to use the product. To avoid body injury or property loss caused by misoperation, please carefully read the Safety Information Booklet before using the product.

This manual is applicable to the following product:
BD30X Digital Portable Radio (X may represent 2, 5, 6 or 8)

Copyright Information

Disclaimer

If you have any suggestions or would like to learn more details, please visit our website at: http://www.hytera.com.

FCC Statement

Compliance with RF Exposure Standards

Hytera's portable radio complies with the following RF energy exposure standards and guidelines:

- United States Federal Communications Commission, Code of Federal Regulations; 47 CFR § 1.1307, 1.1310 and 2.1093
- American National Standards Institute (ANSI) / Institute of Electrical and Electronic Engineers (IEEE) C95. 1:2005; Canada RSS102 Issue 5 March 2015.
- Institute of Electrical and Electronic Engineers (IEEE) C95.1:2005 Edition

RF Exposure Compliance and Control Guidelines and Operating Instructions

To control your exposure and ensure compliance with the occupational/controlled environment exposure limits always adhere to the following procedures.

Guidelines:

- Do not remove the RF Exposure Label from the device.
- User awareness instructions should accompany device when transferred to other users.
- Do not use this device if the operational requirements described herein are not met.

Operating Instructions:

- Transmit no more than the rated duty factor of 50% of the time. To transmit (talk), push the Push-To-Talk (PTT) button. To receive calls, release the PTT button. Transmitting 50% of the time, or less, is important because this radio generates measurable RF energy exposure only when transmitting (in terms of measuring for standards compliance).
- Hold the radio in a vertical position in front of face with the microphone (and the other parts of the radio, including the antenna) at least one inch (2.5 cm) away from the nose. Keeping the radio at the proper distance is important because RF exposures decrease with distance from the antenna. Antenna should be kept away from eyes.
- When worn on the body, always place the radio in a Hytera's approved clip, holder, holster, case, or body harness for this product. Using approved body-worn accessories is important because the use of Hytera's or other manufacturer's non-approved accessories may result in exposure levels, which exceed the FCC's occupational/controlled environment RF exposure limits.
- If you are not using a body-worn accessory and are not using the radio in the intended use position in front of the face, then ensure the antenna and the radio are kept at least 2.5 cm (one inch) from the body when transmitting. Keeping the radio at the proper distance is important because RF exposures decrease with increasing distance from the antenna.
- Use only manufacturer's name approved supplied or replacement antennas, batteries, and accessories. Use of non-manufacturer-name approved antennas, batteries, and accessories may exceed the FCC RF exposure guidelines.
- Contact your local dealer for the optional accessories of the product.

IC Statement

The device has been tested and compliance with SAR limits, users can

obtain Canadian information on RF exposure and compliance

Après examen de ce matériel aux conformité aux limites DAS et/ou aux limites d'intensité de champ RF, les utilisateurs peuvent sur l'exposition aux radiofréquences et la conformité and compliance d'acquérir les informations correspondantes

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:

(1) this device may not cause interference, and

(2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes: (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement

EU Regulatory Conformance

As certified by the qualified laboratory, the product is in compliance with the essential requirements and other relevant provisions of the following directives:

- 1999/5/EC or 2014/53/EU
- 2006/66/EC
- 2011/65/EU
- 2012/19/EU

Please note that the above information is applicable to EU countries only.

Contents

Please unpack carefully and check if all items listed below are received.
If any item is missing or damaged, please contact your dealer.

Item	Quantity (PCS)	Item	Quantity (PCS)
Radio	1	Belt Clip	1
Battery	1	Strap	1
Power Adapter	1	Documentation Kit	1
Antenna	1	/	/

📝 **Note** The frequency band is marked on the label of antenna; if it is unavailable there, see the label on the radio.

Product Overview

Product Controls

LED Indicator

On-Off Key

Channel Selector Knob

Push-to-Talk (PTT) Key

Speaker

Volume Up/Down Key

Microphone

Side Key (SK)

Custom Marking Area

Antenna

Charging Indicator

Accessory Connector

Belt Clip

Battery+Battery Cover

Battery Latch
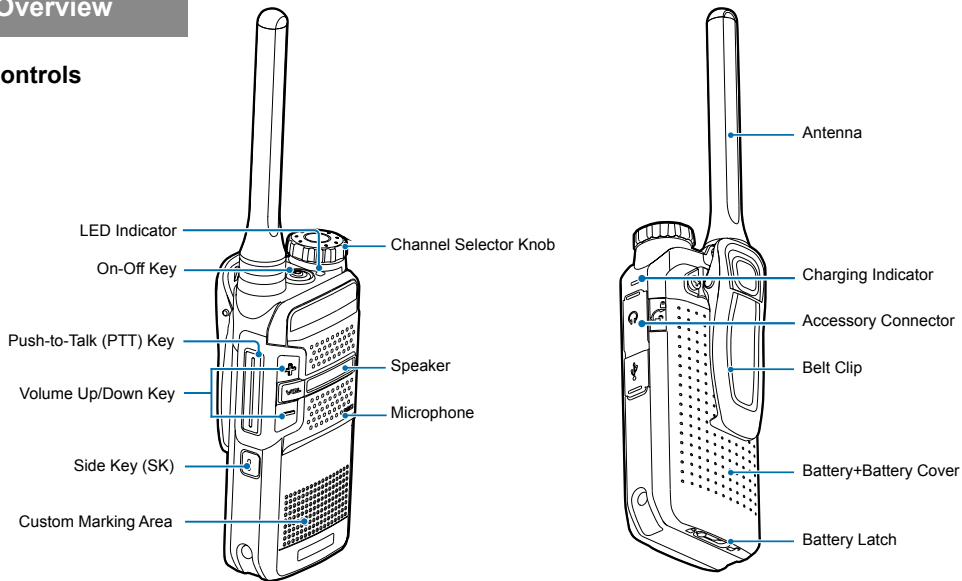
📝 **Note** For your convenience, you may request your dealer to program the **SK** as the shortcut to a radio feature.

LED Indication

LED Indicator	Radio Status
Flashes green	Being turned on.
Glows green	Receiving.
Glows red	Transmitting.
Flashes orange slowly	Scanning.
Glows orange	Call hang time: No voice is being transmitted or received on the channel during a call. Within such a period, you can hold down the **PTT** key to speak.

Attaching the Antenna

1. Place the antenna in its receptacle.
2. Rotate the antenna clockwise.

⚠️ Caution

Do not hold the radio by its antenna; otherwise, the radio performance may be reduced and the life span of the antenna may be shortened.

Attaching the Battery

1. Slide the battery latch to the unlock position, and remove the battery cover.
2. Align the battery contacts with the contacts in the battery compartment, and press the battery into place.
3. Insert the two protrusions at the top of the battery cover into the radio, and press the cover into palce.
4. Slide the battery latch to the lock position.

📝 Note

To remove the battery, make sure that the radio is turned off, remove the battery cover, and lift the bottom of the battery.

Attaching the Belt Clip

1. Unfasten the two screws on the back of the radio.
2. Align the screw holes on the belt clip with those on the back of the radio.
3. Tighten the screws.

Attaching the Audio Accessories

1. Open the accessory connector cover.
2. Plug the accessory into the accessory connector.
3. Rotate the accessory plug clockwise into place.

Charging the Battery

Be sure to charge the battery fully before initial use, since reduction of state of charge (SoC) may lead to low battery alarm. It is recommended that your radio remain powered off during charging.

To charge the battery, insert the USB plug of the power adapter into the USB connector of the radio, and then connect the power adapter to the main supply.

The charging indicator on the radio shows the charging status. For details, see the following table.

Charging Indicator	Charging Status
Glows red	The battery is charging.
Glows green	The battery is fully charged.

Checking the Battery Power

You can check the current battery power by holding down the **Battery Power Indicator** key programmed by your dealer, and release the key to exit. The following table lists battery power indications:

LED Indicator	Alert Tone	Battery Power
Glows green	Three beeps	High
Glows orange	Two beeps	Medium
Glows red	One beep	Low
Flashes red	Low battery tone	Under the low battery threshold. Please recharge or replace the battery.

Basic Operations

If you want to…	Do this…
Turn on/off the radio	Press the **On-Off** key.
Increase the volume	Press the **Volume Up** key.
Decrease the volume	Press the **Volume Down** key.
Select a channel	Rotate the **Channel Selector** knob.

Call Services

Call on Digital Channel

On the digital channel, you can initiate or respond to a group call or private call. A group call is a call from an individual user to a group of users. A private call is a call from an individual user to another individual user.

Initiating a Call

1. Select the required channel.
2. Hold the radio vertically 2.5 to 5 cm from your mouth.
3. Hold down the **PTT** key and speak when the radio is in standby mode.

Receiving and Responding to a Call

When receiving a call, you can listen to it without any operation. You can hold down the **PTT** key to respond within the preset time period.

Call on Analog Channel (Without Signaling)

A call on analog channel is from an individual user to all users on the channel. The operations are the same as the call on digital channel.

Optional Features

The following features need to be programmed by your dealer. Please contact your dealer for detailed operations.

Type	Feature	Description
Radio Feature	Zone	Allows you to select a zone. The radio supports up to 3 zones, with a maximum of 16 channels per zone.
	Power Level	Allows you to switch the transmit power level between high and low.
	Scan	Allows the radio to scan all channels in the scan list programmed for the current channel.
	Emergency Alarm	Allows you to initiate an emergency alarm or call at any time to ask for help in case of emergencies.
	Busy Channel Lockout	Prevents the radio from transmitting on a busy channel.
	Time-out Timer (TOT)	Terminates transmission when the preset time period expires.
	Battery Save	Allows the radio to automatically enter the battery save mode when detecting no activity or operation within a certain time period.

Type	Feature	Description
Digital Feature	One Touch Call	Allows you to press one key to call the predefined private or group contact.
	All Call	Allows you to initiate a call to all users on the channel.
	TDMA Direct Mode	Allows the radio to operate on a channel with two time slots.
Analog Feature	Squelch Off	Allows the radio's speaker to always keep unmuted.
	Squelch Level	Allows you to adjust the squelch threshold required for the radio to unmute.
	Monitor	Allows the radio to monitor activities on the channel.
	CTCSS/ CDCSS	Allows you to prevent unwanted calls on the same frequency.

Troubleshooting

Phenomena	Analysis	Solution
The radio cannot be turned on.	The battery may be installed improperly.	Remove and reattach the battery.
	The battery power may run out.	Recharge or replace the battery.
	The battery may suffer from poor contact caused by dirtied or damaged battery contacts.	Clean the battery contacts or replace the battery.
During receiving, the voice is weak, discontinuous or totally inactive.	The battery voltage may be low.	Recharge or replace the battery.
	The volume level may be low.	Increase the volume by rotating the **Volume Control** Knob.
	The antenna may get loose or may be installed improperly.	Turn off the radio, and remove and reattach the antenna.
	The speaker may be blocked.	Clean the surface of the speaker.
You cannot communicate with other group members.	The frequency or signaling may be inconsistent with that of other members.	Set your TX/RX frequency and signaling to the same as those of other members.
	The channel type (digital or analog) may be set inconsistently.	Make sure all members are on the same digital or analog channel.
	You may be too far away from other members.	Move towards other members.
Irrelevant voices or noise is heard on the channel.	You may be interrupted by radios using the same frequency.	Change the frequency, or adjust the squelch level.
	The radio in analog mode may be set with no signaling.	Set signaling for all radios operating at the same frequency to avoid interference.
The noise is too loud.	You may be too far away from other members.	Move towards other members.
	You may locate in an unfavorable position. For example, your communication may be blocked by high buildings or frustrated in the underground areas.	Move to an open and flat area, and restart the radio to try again.
	You may suffer from external disturbance (such as electromagnetic interference).	Stay away from equipment that may cause interference.

If the above solutions cannot fix your problems, or you may have some other queries, please contact us or your local dealer for more technical support.

Care and Cleaning

To guarantee optimal performance as well as a long service life of the product, please follow the tips below.

Product Care

- Do not pierce or scrape the product.
- Keep the product far away from substances that can corrode the circuit.
- Do not hold the product by its antenna or earpiece cable.
- Close the accessory connector cover when no accessory is in use.

Product Cleaning

⚠️ Caution
Turn off the product and remove the battery before cleaning.

- Clean up the dust and fine particles on the product surface and charging piece with a clean and dry lint-free cloth or a brush regularly.
- Use neutral cleanser and a non-woven fabric to clean the keys, knobs and front case after long-time use. Do not use chemical preparations such as stain removers, alcohol, sprays or oil preparations, so as to avoid surface case damage.
- Make sure the product is completely dry before use.

Optional Accessories

Contact your local dealer for the optional accessories of the product.

⚠️ Caution
Use the accessories specified by the Company only; otherwise, the Company shall not be liable for any loss or damage arising out of use of unauthorized accessories.

致用户

非常感谢您对我们产品的青睐！本手册旨在让您快速掌握终端的使用。为了避免因不当操作而给您带来身体伤害或财产损失，请于使用终端前详细阅读《安全信息手册》。

本手册适用于以下机型：
BD300 数字手持终端

数字手持终端

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美国联邦通信委员会监管要求

按照美国联邦通信委员会的监管要求，终端必须符合美国联邦通信委员会射频辐射限制规定，否则不能在美国市场上销售。并要求制造商可通过在产品上张贴标签的方式，告知用户应注意的事项，提高用户的防辐射意识。

射频辐射控制及操作说明

为了使产品发挥最佳性能及确保符合上述标准中有关职业或受控环境中的辐射限制要求，发送时间不得超过额定因数的50%（最高50%的时间发射），且需遵照下列说明：

● 仅在发射（讲话）时产生射频能量辐射，接收（收听）和待机时均不会产生。

● 发射时终端与身体的距离至少保持在 2.5 厘米以上。

目录

包装盒内含有以下物品。如有任何物品丢失或损坏，请与您所购产品的经销商联系。

物品	数量	物品	数量
主机	1	皮带夹	1
电池	1	吊绳	1
电源适配器	1	资料套件	1
天线	1	/	/

📝 **备注** 天线频段请参考天线底部色环标签内容。若标签未注明频段，则请参考主机标签上的具体频段。

部件介绍

状态指示灯

电源开关

信道选择旋钮

PTT键(发射键)

音量+/-键

扬声器

麦克风

SK键(侧键)

自定义标记区

天线

充电指示灯

附件接口

皮带夹

电池+电池盖

电池锁扣
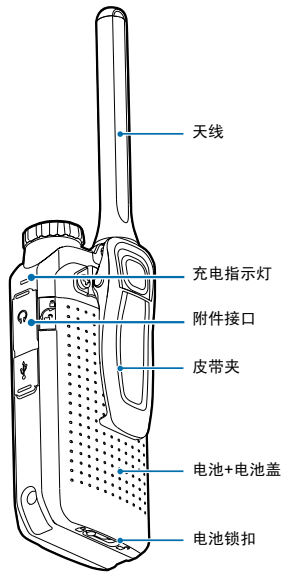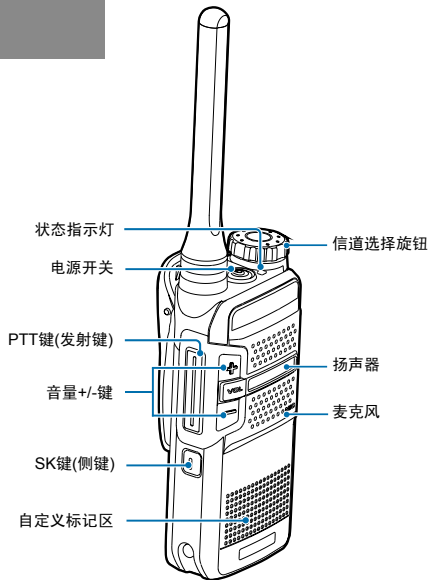
为了提升操作便利性，终端提供可编程键【SK】键，可由经销商配置为功能快捷键。

备注

熟悉产品

状态指示灯

状态指示灯	产品状态
绿色闪烁	正在开机
绿色常亮	正在接收
红色常亮	正在发送
橙色慢闪	正在扫描
橙色常亮	呼叫保持状态，即呼叫成功建立后，各方均处于接收状态，信道资源空闲，此时您可以按住【PTT】键讲话。

用前准备

安装天线

⚠️ 注意 请勿手持天线顶端甩动终端，否则会降低终端天线的工作性能和使用寿命。

1. 将天线的螺纹端插入主机顶部天线端口。
2. 沿顺时针方向拧紧天线。

安装电池

1. 将底部电池锁扣解锁，并取下电池盖。
2. 将电池前端插入主机底壳内，轻压电池底部，卡入电池。
3. 安装电池盖，并将底部电池锁扣锁上。

📝 备注 如需卸下电池，请先关机。然后请按照"安装电池"的步骤 1 取下电池盖。再从电池底部向上提起电池并取出即可。

安装皮带夹

1. 卸下主机上的皮带夹螺钉。
2. 将皮带夹的螺钉孔对准主机上的螺钉孔并用螺钉锁紧皮带夹。

安装附件

1. 打开附件接口盖。
2. 将附件（例如：耳咪、USB）插头对准附件接口插入。
3. 耳咪插头需按顺时针方向旋转，直至与附件接口贴紧。

充电

⚠ 注意	● 请使用我司指定的充电设备充电。 ● 为整机充电时，建议先关机并参阅《安全信息手册》，以获取必要的电池安全信息。 ● 电池配主机首次使用时可能会出现低电告警现象，请在使用前先对电池进行充电。

观察主机侧面的充电指示灯可了解当前充电状态：

主机充电指示灯	当前充电状态
绿色常亮	充电完成
红色常亮	正在充电

查看电量

如果经销商为终端设置了【电池电量提示】快捷键，则您可以按住该快捷键通过主机的状态指示灯或BEEP提示音查看电池剩余电量，松开该快捷键取消查看电池剩余电量。

状态指示灯	BEEP提示音	电池电量
绿色常亮	"滴滴滴"	电量高
橙色常亮	"滴滴"	电量中
红色常亮	"滴"	电量低
红色闪烁	低电提示音	电量不足，请尽快充电或者更换电池

基本操作

图标	操作说明
	开机/关机：向下按【电源开关】键即可开机或关机
	增加音量：开机后，按【音量+】键可以增加音量
	减小音量：开机后，按【音量-】键可以减小音量
	开机后，旋转【信道选择】旋钮选择所需的信道

呼叫

为保证最佳接收音量，发射时请保持麦克风与嘴的距离为2.5厘米～5厘米。

数字信道呼叫

您可在数字信道上进行个呼、组呼和全呼（全呼权限需要由经销商开启），每个数字信道可由经销商预设一个"发射联系人"。

呼叫	对象	操作说明
个呼	个呼联系人与个呼联系人	● 呼叫参与方选择相同的数字信道。
组呼	个呼联系人与组呼联系人	● 在待机状态，按住【PTT】键发起呼叫。
全呼	个呼联系人与全呼联系人	● 接收到呼叫后，您无需任何操作即可接听。在预设时间内按住【PTT】键可发起回呼。

模拟信道呼叫（无信令）

您可以对当前模拟信道上的所有用户发起呼叫，操作方法同数字信道呼叫。

功能说明

终端支持的功能如下表所示。个呼、组呼和模拟信道呼叫的操作方法请参考 呼叫。其他功能需由经销商配置，【SK】键为功能快捷键，具体操作方法请咨询经销商。

分类	名称	描述
公共功能	区域	区域是一个信道组。终端支持3个区域，最多包含48个信道。
	功率级别	功率级别是当前信道的发射功率级别，可设置为高功率或者低功率。
	扫描	扫描是对当前信道上设置的扫描列表进行扫描。不支持模拟和数字信道混扫。
	紧急报警	紧急报警是遇到紧急情况时，您可以向同伴或者控制中心寻求帮助。紧急报警有最高优先权。
	繁忙信道锁定	繁忙信道锁定是锁定正在发射的用户所在信道，防止其他用户干扰。
	超时禁发	超时禁发是超过单次发射时间后（默认为60秒），终端将自动终止发射并且发出警告音。如需再次通话，请在预设时间后再发射。
	省电	当终端待机到达省电时间，将自动进入省电模式。

分类	名称	描述
数字功能	个呼	个呼是一对一的呼叫。
	组呼	组呼是组内一对多的呼叫。
	全呼	全呼是当前数字信道上对所有联系人的呼叫。
	一键呼叫	一键呼叫是指通过快捷键一对一或组内一对多的呼叫。
	TDMA直通模式	TDMA直通模式是把数字信道划分为两个交替的时隙。
模拟功能	模拟信道呼叫	模拟信道呼叫是当前模拟信道上一对多的呼叫。
	静噪打开	静噪打开是无论有无载波，终端始终打开扬声器。
	静噪级别调整	静噪级别调整是调整接收信号时所需要的信号强度。静噪级别分为常开、正常和加强，若设置为常开，终端直接打开扬声器放出背景音。
	监听	监听是辨别和收听扬声器中微弱的声音。
	亚音频/亚音数码	亚音频/亚音数码是接收的亚音频/亚音数码与发射的亚音频/亚音数码匹配时，您才可以通过扬声器收听语音。

故障处理

故障描述	原因分析	解决方法
无法开机	电池可能未正确安装	取出电池并重新装入。
	电池电量可能已经耗尽	充电或更换电池。
	电池触点污浊或受损而导致接触不良	清洁电池触点。
接收信号时声音小、断续或无声	电池电压过低	充电或更换电池。
	音量较小	调大音量。
	天线松动或安装不到位	关机后重新安装天线。
	扬声器堵塞或受损	进行简单的外部清洁。
无法与组内其他成员通话	所用频率或信令设置与组内其他成员不同	设置与组内其他成员相同的频率和信令。
	数字、模拟信道设置不当	设置相同的数字信道或模拟信道。
	距离组内其他成员太远	尽量靠近其他成员，确认位于其有效通讯范围之内。
信道中出现其他通话声或杂音	受到同频用户的干扰	更改为新的频点，或调整静音级别。
	未设置信令	对组内所有对讲机进行信令设置，以防止同频干扰。但必须同时更改组内所有手持终端的信令设置。
噪声较大	与其他成员之间的通讯距离过远	靠近其他成员。
	所处位置不佳，如受高大建筑物阻挡，或位于地下室等	移至开阔平坦地后，开机重试。
	受外界环境或电磁干扰	避开可能引起干扰的设备。

如上述方法仍未解决您的问题，或您遇到一些其他的故障，请联系当地经销商或我司以获取更多的技术支持。

保养与清洁

为了保证终端发挥其良好性能，以及延长其使用寿命，请熟悉以下内容，以便更好地对终端进行日常保养与清洁。

保养

- 请勿用硬物穿刺或刮花终端。
- 请勿将终端存放于含有腐蚀电子电路物质的环境。
- 携带或使用终端过程中，请勿用手提天线或耳机线。
- 当不使用附件时，请盖好附件接口盖。

清洁

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清洁之前，请关机并取出电池。

- 请定期使用洁净干燥的无绒布或毛刷拭去终端表面及充电极片附着的粉尘。
- 终端的按键和机壳极易变脏。可用中性洗涤剂和无纺布对其进行清洁，请勿用去污剂、酒精、喷雾剂或石油制剂等化学药剂进行清洁，以避免产品表面和外壳受损。
- 清洁之后，务必保证终端彻底干燥，否则请勿使用。

选购配件

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请使用我司指定的配件。若擅自使用未经许可的配件，则由此所导致的一切后果，由用户自行负责。

终端主要的选购附件请咨询您当地的经销商或拨打我司服务热线400-830-7020。

保修范围与期限

我司承诺，凡我司生产的产品，自购买之日起，在正常使用、操作与维护条件下，出现材料或制造工艺方面的缺陷，可享受以下规定的保修服务。

主机	24个月
标配附件（包括电池、电源适配器）	12个月

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