

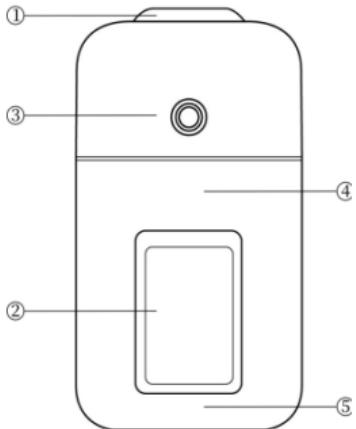
KEENLUK Healthcare Robot K9

User Manual

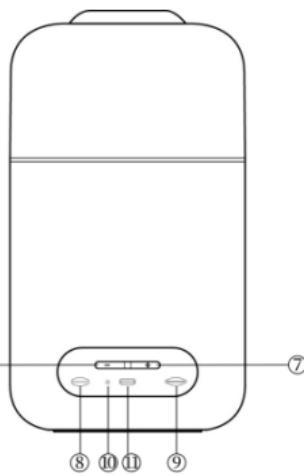
This product is not a medical device. Please do not promote its efficacy



Introduction to KEENLUK Healthcare Robot



Front view



Rear view



4G card



Charger



Card pusher



Manual



Nano-rubber pad

No.	Area	Introduction to Features
①	Big top key	<p>Press: The device will attempt to reach the primary binder via an Internet-based calling app, presenting call options:</p> <ol style="list-style-type: none"> 1. Got it. Turn it off 2. Voice call 3. Video call. When a call is in progress, this key functions to end the call.
		<p>The device will first attempt to call the primary binder. If the call is not answered, the KEENLUK healthcare robot will proceed to call the other binders in sequence.</p>
②	Screen	<p>Two-way video calls are available, and physical sign figures can be viewed directly on the device; you can also set the camera to be turned off here.</p>
③	Rotatable Camera	<p>The camera can rotate left, right, up, and down to follow the body for continuous identification.</p>
④	Radar Sensor	<p>Contactless vital sign detection.</p>

⑤	Speaker Area	Principal sound transmission area.
⑥	Volume-	Press the “Volume-” key to decrease the volume; alternatively, press and hold the “Volume-” key to announce the binding code and perform device re-binding.
⑦	Volume+	Press the “Volume+” key to increase the volume.
⑧	TF Card Slot	The inserted TF card is used for storing videos and other data. The larger the capacity, the longer the video storage time.
⑨	SIM Card Slot	No
⑩	Network Signal Indicator Light	Green Solid: Using WiFi network. Red Solid: No available network for connection.
⑪	TYPE-C Power Port	The device must remain connected to power.

KEENLUK Healthcare Robot Power-on

Insert the power cable into the TYPE-C power port on the back of the device, and the device will turn on automatically.

Connect the KEENLUK Healthcare Robot to the KEENLUK APP

Scan the QR code below or search for "KEENLUK Healthcare" in the app store, download and install the KEENLUK App, register an account, and successfully bind it to the KEENLUK Healthcare Robot. After that, you can use the KEENLUK App to see your family members status.



Operation Tips: Due to updates and upgrades of the KEENLUK APP, the actual operation may differ slightly from the description above. Please follow the instructions within the current KEENLUK APP. Ensure that the network connection is stable and the power is connected during the connection setup. Once the connection is successful, there will be a voice prompt.

User Registration

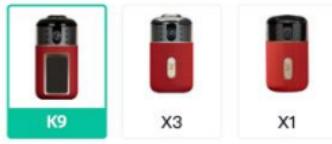
Launch the KEENLUK APP, go to the registration screen, enter your E-mail address, click on "Get Verification Code," fill in the verification code sent by e-mail, check the user terms, and click "Next."

1. Set a login password between 6 and 12 characters, and click "Complete Registration."
2. If you are the primary binder, click on "Create Care," select the role relationship, click "Complete Setup," and create the information of the recipient accurately. Upon successful creation, start the device network configuration.
3. If you are not the primary binder, click on "Enter Invitation Code to Join Care," select the role relationship, click "Complete Setup," enter the invitation code, and click "Bind Device."

(Note: The invitation code is generated by the primary binder in "My > Group of friends and relatives giving care > Invite friends and relatives to join the care giving")

First step

Please chose your device K9



The K9 model builds on X3 by adding a 3.5-inch full-view screen, support for two-way video calls, and the capability to view physical sign figures directly on the device.

The 2nd step

Please select your caring mode



Create caregiving to become > the primary caregiver

You will be the primary bound person, with full administrative control over the device



Join caregiving – Invitation code needed >

If you are not the primary binder, please select this option to bind the device. The invitation code is generated by the primary binder in "My - Group of friends and relatives"

"My"Module

Network Configuration

Precautions:

- During network configuration, you are allowed to choose to connect via WiFi or Bluetooth.
- Both 2.4GHz and 5GHz signal connections are supported.
- Insert the power cable into the TYPE-C power port on the back of the device.

I. WiFi Network Configuration

1. Click on [Ready, Start Connecting to WiFi].
2. Select the WiFi name and enter the correct WiFi password.
3. Click "Start Connection," and a QR code will be generated. Place the QR code about 10 cm away from the device's camera to configure the WiFi network. Once the configuration is successful, the mobile phone and the KEENLUK Healthcare Robot will provide a voice prompt.
4. After the camera successfully scans the QR code, you can enter the "Create Guardian" interface
5. In the "Healthcare Robot Placement" interface, put the KEENLUK Healthcare Robot on the bedside table, in a position where the recipient can reach it while lying down. Align the viewfinder with the waist or leg area of the recipient when they are lying down, and then click [Confirm Alignment].

"My"Module

6. (Note: For specific requirements on placement of the healthcare robot, click on [View Example Image])

II. Bluetooth Network Configuration

1. Click on [Ready, Start Connecting to WiFi]" and select [Bluetooth Network Configuration].
2. Check the device's Bluetooth name and click "OK."
3. (Note: The device's Bluetooth name is composed of "QinLu+K9+4 digits")

Switching Network Configuration Method

In the "Configure Network" interface:

1. You can click on [Bluetooth Network Configuration] to switch from WiFi network configuration to Bluetooth network configuration.
2. You can click on [Scan Network Configuration] to switch from Bluetooth network configuration to WiFi network configuration

"My"Module

To switch or disconnect the device's network, you can do so in the KEENLUK APP under "My > His/Her Device > Network-related > Device Connected to Wi-Fi."

Unbind Device (Note: Unbinding by the primary binder will clear all accounts for the group of friends and relatives

1. The primary binder can unbind the KEENLUK Healthcare Robot in "My > His/Her Device > Hardware-related > Unbind Device."
2. The primary binder can unbind the KEENLUK Healthcare Robot in "My > Group of Friends and Relatives Giving Care > Administrator > Unbind."
3. The primary binder can remove other binders in "My > Group of Friends and Relatives Giving Care > Members of the Group of Friends and Relatives > Remove from Group."

Healthcare Features

I. Information Center and Its Classification

Click on the status of the recipient or the Plus Sign - Message List in the top right corner to enter the Information Center interface. Messages are classified based on their importance and the reason for their issuance into Important Alerts, Daily Reminders, and System Messages.

II. Analysis of Daily Patterns

This feature is divided into Today's Daily Patterns and Routine Daily Patterns. The Routine Daily Patterns analyzes the user's daily patterns data over 5-30 days, presenting their routine patterns, which helps sons/daughters learn their parents' daily habits.

III. Vital Sign Monitoring

Heart Rate	<ol style="list-style-type: none">1. The radar sensor detects 7 states, i.e., [Stable Heart Rate, Significant Increase, Significant Decrease, High Heart Rate, Low Heart Rate, Tachycardia, and Bradycardia].2. When heart rate values are out of order, a message is sent to the binder for notification.3. When tachycardia or bradycardia is detected, an automatic call is made to the binder for alert.
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Breathing	The radar sensor detects states, i.e., [Stable Breathing, Rapid Breathing, and Slow Breathing]. When breathing is found to be out of order, a message is sent to the binder for notification.
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(Note: The radar sensor will begin detecting heart rate and breathing only when the recipient is at rest and the motor has stopped. Maintain this state for 15-20 seconds to obtain vital sign values)

IV. Instant of Care giving

Instant of Care giving	Scenes from daily life are continuously video-recorded and intelligent recognition is used to classify and segment the video into different important scenes, making it easy for users to view the corresponding footage when different events occur.
Monitoring	Live stream the footage in front of the device.
Video	Engage in video chat with the device.

Phone Conversation	Do not support yet
Privacy Scan	Perform privacy checks on the video footage from monitoring and instant of care giving, including detection of nudity. If sensitive content is detected, the footage will be blurred to better protect user privacy.

V. Fall Detection

1. This feature employs a combination of radar, image recognition algorithms, and cloud-based big AI models to detect falls.
2. The time to recognition is generally between 40 and 90 seconds after a person falls. A fall where the person quickly gets up will not be recognized as a fall.
3. In scenes with multiple people, the situation will be considered non-dangerous, and fall will not be recognized.
4. Delineate the sleep area: Lying in the designated sleep area will not be recognized as a fall.
5. Special attention should be paid to the placement height of the device, and it shall be placed at the edge of the table (secure it with nano-rubber pads)

VI. AI Voice Interaction

1. It's allowable to shout "Help, Help" to sequentially call the binders for emergency assistance.
2. It's allowable to make voice calls to binders, for example, say "LULU, LULU, call my daughter."

Precautions

- Do not use this product in environments with excessively high or low temperatures or humidity.
- This product is a precision electronic device. Do not use it in overly humid environments or where water ingress may occur, as this could affect normal operation.
- To better use this product, it's essential to avoid placing the lens directly or indirectly close to reflective objects such as glass or white walls, as this can cause the nearby areas to appear bright while distant areas appear dark or washed out.

The vital signs detection is most effective when the device is placed within 1.5 meters of the person. Please take this into consideration when placing the device.

Handling of Common Problems

Problems	Detailed Description of Problems	Solutions
Device network configuration failed	Is the USB power cable supplying power properly?	Check if the USB power cable plug is properly connected.
	What is the distance between the mobile phone and the device when scanning the QR code for network configuration?	The distance between the mobile phone and the device is approximately 10 cm.
Location of healthcare robot	How many centimeters from the head of the bed should the device be placed to ensure favorable vital signs detection?	It is best to place the device on a bedside table that is about 10-15 cm higher than the bed, ideally at a height of 55 cm from the ground

Sign-up Identity	<p>Click "Create care giving to become the primary caregiver."</p>	<p>After successfully creating the guardian information, you will become the primary binder who has the highest permissions for the device.</p>
Binders	<p>Click "Join care giving - Invitation code needed."</p>	<p>Select the role relationship, enter the invitation code, and become another binder. Special permissions require authorization from the primary binder.</p>

	How are special permissions for second and third binders granted?	Special permissions must be granted by the primary binder.
Invitation code	How to find the invitation code?	The primary binder can find the invitation code in "My > Group of Friends and Relatives Giving Care > Invite Friends and Relatives to Join the Care giving."
	What is the purpose of the invitation code?	Invite friends and relatives to join the care giving.

Hazardous Substances in the Product and Their Contents

Component Description	Hazardous Substances					
	(Pb)	(Hg)	(Cd)	(Cr(V I))	(PBB)	(PBDE)
Housing	0	0	0	0	0	0
PCBA	x	0	0	0	0	0
Cables	0	0	0	0	0	0
Accessories	x	0	0	0	0	0

"0" indicates that the contents of hazardous substances in all homogeneous materials of this part are within the limits specified in GB/T 26572.

"x" indicates the contents of hazardous substances in at least one homogeneous material of this part is beyond the limit stated in GB/T 26572.



General Specifications

Product Name	KEENLUK Healthcare Robot	Product Dimensions	13cm*23cm)
Product Model No.	K9	N.W.	932g
Power Input	USB type-C DC5V2A	Storage Function	Pre-installed TF Card
Resolution	1080P/720P/480P	Wireless Connection	BT+WIFI

Product Warranty Card (For Customer)

Product Model No.		Manufacturing No.		Date of Manufacture	
Customer Information	Customer Name: Detailed Address: Postal Code: E-mail Address: Contact Number:				
Purchase platform		Purchase Price			
Maintenance records					

Non-warranty Regulations

1. Unauthorized repairs, misuse, collision, negligence, abuse, liquid ingress, accidents, modifications, incorrect use of non-original parts, or removal or alteration of labels or anti-counterfeiting marks;
2. The product and its accessories fail due to human errors;
3. The product has exceeded the valid period of the "three guarantees" (repair, replacement, and refund);
4. Damage induced by force majeure;

Service Phone: 0769 - 38670008

Service Website: www.yesen100.com

Manufacturer: Dongguan Yesen Intelligent Technology Co., Ltd.

Address: Room 233, Building 5, No. 1, Xuefu Road, Songshanlu Park, Dongguan, Guangdong Province

Non-warranty Regulations

FCC WARNING

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.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception,

which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

-- Consult the dealer or an experienced radio/TV technician for help.

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum 20cm distance between the radiator and your body: Use only the supplied antenna.