Massage chair controller KP04 product manual

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catalogue

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1 Product brief

This series of products is the android system massage chair control screen, used for massage chair human-computer interaction, using the UART interface to communicate with the massage chair host.

2. Product function and performance

This product mainly has the following functions:

- 1. Realize the human-computer interaction with the massage chair;
- 2. Light sensing and distance sensing function;

order number	product model	product features	remarks
1	КРО4		Orgard custom

explain:

- (1) This article is only applicable to the models listed above;
- (2) For the specific functions of each model, see the "Hardware Configuration Table";

2.1 Functional description

2.1.1 Hardware Configuration

function	Specification description	КР04	remarks
CPU	Quad-core 1.3 GHz, Cortex-A7 architecture CPU	×	
	Quad-core, Cortex-A55 architecture CPU	\checkmark	
FLACU	4 GB	×	
FLASH	32 GB	\checkmark	
CDDAM	512 MB	×	
SDRAM	4 GB	\checkmark	
Serial communicati on	UART	~	
display	6.95 inch LCD , 1024 RGBx600 pixels	×	
screen	12.3inch LCD , 1920 RGBx720 pixels	\checkmark	
touch screen	capacitive touch screen	\checkmark	
Infrared induction	>30cm	\checkmark	
key	power switch	\checkmark	
	2.4 GHz	\checkmark	
WIFI	5 GHz	\checkmark	
BT	2.4 GHz	\checkmark	
Demon	DC5V (powered by a massage chair)	×	
Power Supply Voltage	DC24V (powered by a massage chair)	~	

Product function option description:

" \checkmark ": Indicates that the product supports this feature and is configured as standard;

" \times ": It indicates that the product does not support this function;

 $'' {\tt O}'':$ Indicates that the product supports this function and can be configured according to the order requirements;

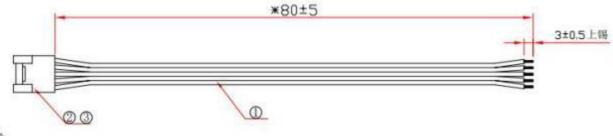
 ${\it "} \bigtriangleup {\it "}$: Product reserved function, only used for special orders, not configured by default;

2.1.2 Software:

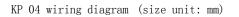
type	description	KP04	remarks
	Android 4.4.2	×	
operating system	Android12	\checkmark	

2.2 External interface of the system

2.2.1 Wiring schematic diagram:



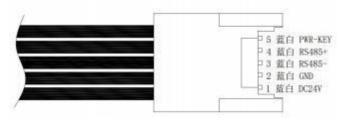
HYR-5R 白色



2.2.2 Definition of the interface pin

product model	The pin number	Feet name	functional description
	1	Blue and white	DC24V
KP04	2	Blue and white	GND
	3	Blue and white	RS485-
	4	Blue and white	RS485+
	5	Blue and white	PWR-KEY

2.2.3 Schematic diagram of the interface function



Schematic diagram of the KP 04 interface $% \left({{\left[{{{\rm{A}}} \right]}_{\rm{A}}}} \right)$

2.3 Performance indicators

2.3.1 Product implementation standards

Product implementation standards are detailed in the product specification.

2.3.2 Performance indicators required by customers

(1) ESD:

KP 04: air discharge \pm 15 KV;

(2) Certification requirements: SRRC certification;

2.4 Technical parameters

2.4.1 Electrical performance

order numbe r	product model	rated voltage	power rating	Standby power	remarks
1	КР04	DC24V±10%	12W	5W	

2.4.2 Working environment

Operating temperature : -10° C $^{\sim}$ + 55 $^{\circ}$ C Storage temperature : -10° C $^{\sim}$ + 60 $^{\circ}$ C Relative humidity : 20% 80%

2.4.3 Wireless parameter

2.4GHz WIFI function	n/2.4GHz WIFI 功能					
Support Type:	🛛 🔧 802.11b	⊠ √802.11g			802.11n(H20)	802.11n(H40)
Support Type:	Ø √2412-2472MHz (EU Freq. band)					
Antenna Technology:	SISO √SISO	⊠ √ SISO			MIMO	
Antenna Delivery:	⊠ √1*TX+1*RX	2*TX+2*RX		3*TX+3*RX		Other
Antenna Type:	FPC		Antenna Gain:		Bain: ≥2.49dBi, ≤4.29dBi	

Support Type:	🛛 802.11s	802.11n(H20)	802.11n(H40)		
	802.11sc(20MHz) 802.11sc(40MHz)		802.11ac(80MHz)	802.11ac(160MHz)	
Operation Band:	U-NII Band 1: 5.15~5.25GHz		U-NII Band 2: 5.25~5.35GHz		
	U-NII Band 2e: 5.47~5.725GHz		U-NII Band 3: 5.	7 <mark>25~5.825GHz</mark>	
DFS Type:	Master 🛛	Slave with radar detection	Slave w	ithout radar detection	
Antenna Technology:	🖾 SISO	🛛 SISO			
Antenna Delivery:	1"TX+1"RX	2*TX+2*RX	3*TX+3*RX	Other	

Bluetooth function/董牙功差								
Support Type:		V2.1+EDR	V3.0+HS		V4.0		V5.0	Other
Support Function:		EDR	HS		BLE	⊠	EDR+BLE	Other

FCC Requirement

FCC Statement:

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.

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 thise quipment 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.

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

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada' s licence-exempt RSS(s). Operation is subject to the following two conditions:

(1) This device may not cause interference.

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

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique 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;

2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.