Coretronic Intelligent Robotics Corporation

SIRAS CONTROLLER

Contains RF Module:FLIR / P301-D

FCC ID:2A735-SIRASF1E

User Manual

Product Feature

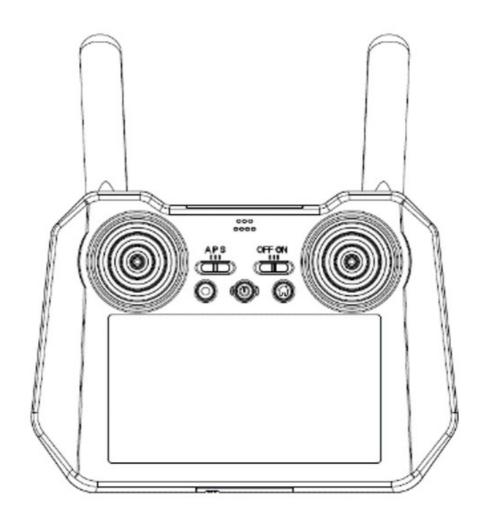
- Based on the principle of TDD, key technologies such as OFDM and MIMO are used to improve frequency band utilization
- Support 64QAM, 16QAM, QPSK, BPSK modulation modes and independent dynamic adjustment of multiple code rates
- Support AES encryption, support a variety of security policies to prevent illegal monitoring and interception
- Adopt frequency hopping scheme, monitor the interference situation in real time, and automatically select the frequency hopping range; automatically and quickly change the frequency point and adjust the modulation and coding strategy (MCS) according to the interference situation of the current channel
- Built-in H.265 encoder, using advanced encoder rate control algorithm, and seamless connection with baseband automatic MCS adjustment, it is more suitable for wireless link transmission under the condition of ensuring image quality

SIRAS CONTROLLER Specifications

Display screen	5.5 inch1920*1080 1000 cd/m2		
System Configuration	Android version 9.0 or above		
System comigaration	2G running memory, 16G storage space		
Body size	Annual 100 v 120 v 40 mm		
(excluding antenna, handle)	Approx. 180 x 130 x 40 mm		
weight	<800g		
Battery ambient temperature	0℃ ~55℃		
Battery capacity and type	10400 mAh, 7.4V, 2S, Li Po		
Charging (fast charging protocol)	PD30W		
charging time	3 H (30W fast charge)		
Work time	6H		
Waterproof level	IP53		
Channel	16 CH		
Maximum communication			
distance			
(no interference, no blocking)	10 KM (FCC)		
Communication frequency band	2.4/5.8GHz automatic switching without interruption		
Data transmission supports flight			
control			
(Mavlink protocol)	Open source flight control PIX, APM, etc.		
Video transmission supports	QGroundControl		
ground station			
(standard RTSP stream)	Mission Planner		
	Charging: Type-C		
	Firmware upgrade: DATA (4-Pin)		
 Functional interface	Mobile network: SIM card slot		
runctional interface	External storage: TF card slot		
	Tripod mount: 1/4 threaded hole		
	Video output: Standard HDMI		

Install the Hardware

• The location of P301-D on SIRAS CONTROLLER



Step1. Put P301-D in the slot after opening the housing of remote.

Step2. Press down into the slot

Step3. locking screw

Step.4 Installing the Antenna IPEX Connector

Step.5 Installing the heat sink and locking screw

Step.6 Install the heat shield

Step.7 Combine the upper and lower covers of remote by four screws.

ANTENNA LIST

This radio transmitter FCC ID: 2A735-SIRASF1E has been approved by FCC to operate with the antenna types listed below with the maximum permissible gain and required antenna impedance for each antenna type indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

Antenna List

No.	Manufacturer	Part No.	Antenna Type	Peak Gain
1	CIROCOMM	43N15C6V0W0010T	Dipole	4.0dBi / 2400~2500MHz
				5.0dBi / 5150~5925MHz

FEDERAL COMMUNICATIONS COMMISSION INTERFERENCE STATEMENT

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

CAUTION:

Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.

RF Exposure warning

This device meets the government's requirements for exposure to radio waves. This device is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the U.S. Government.

The exposure standard employs a unit of measurement known as the Specific Absorption Rate, or SAR. The Limb SAR limit set by the FCC is 4.0 W/kg. Tests for SAR are conducted using standard operating positions accepted by the FCC with the EUT transmitting at the specified power level in different channels.

The FCC has granted an Equipment Authorization for this device with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. SAR information on this device is on file with the FCC and can be found under the Display Grant section of https://apps.fcc.gov/oetcf/eas/reports/GenericSearch.cfm after searching on FCC ID: 2A735-SIRASF1E.

To ensure that RF exposure levels remain at or below the tested levels, use a belt-clip, holster, or similar accessory that maintains a minimum separation distance of 0 mm between your body and the device.