

INDUSTRIAL PRODUCT DATASHEET

Crazyflie 2.1 Brushless Version - Open Source Mirco Quadcopter Drone,Support BLUETOOTH5 Le,Robotics,Suitable for Indoor/Small Space/High Density

Open-source Crazyflie 2.1 Brushless micro quadcopter with no-soldering assembly, Bluetooth 5 LE, long-range Crazyradio control, and expansion decks for development, LED painting, assisted flight, and autonomous navigation.

SKU

114993410

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PRICE

\$480.00(Excl. VAT)

Overview

The Crazyflie 2.1 Brushless Version is an open-source micro quadcopter drone with easy no-soldering assembly and automatic expansion deck detection. It supports Bluetooth 5 LE and cross-platform flight via iOS/Android or Windows/Mac/Linux using Crazyradio, Crazyradio PA, or Crazyradio 2.0, with a tested >1 km line-of-sight radio range, wireless firmware updates, and dual-MCU real-time logging; applications include development, LED-ring deck light painting, Flow deck v2 assisted flight, and Multi-ranger deck obstacle avoidance and autonomous flight.

Key Features

01 Easy to assemble

no soldering required

02 Automatic Expansion Deck Detection

03 Multiple positioning technologies supported

04 Cross-Platform Compatibility

Compatible with iOS and Android via Bluetooth LE, and with Windows, Mac, and Linux using Crazyradio, Crazyradio PA, or Crazyradio 2.0 for flying.

05 Long-Range Radio Communication

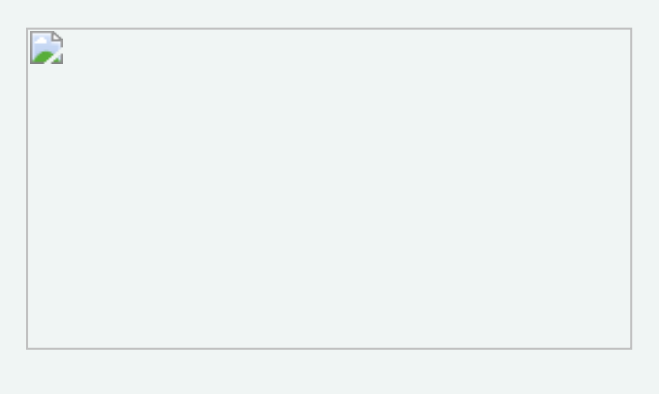
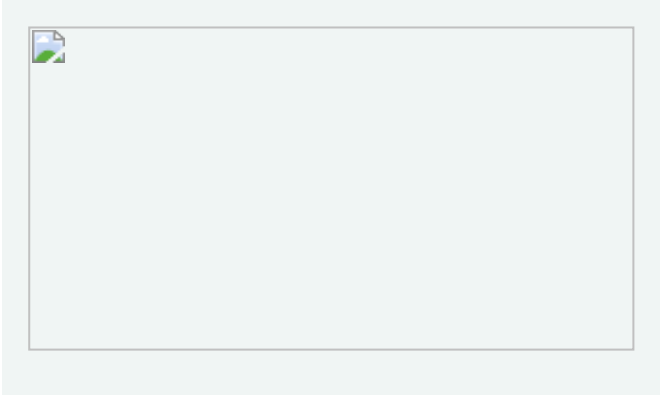
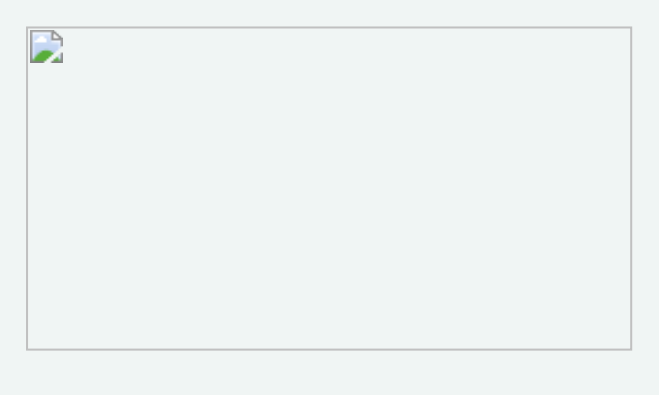
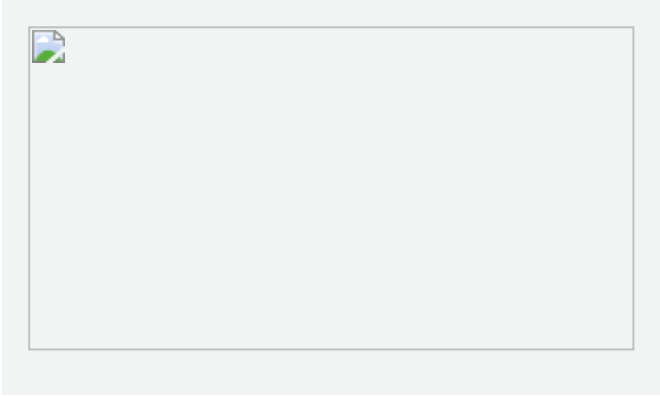
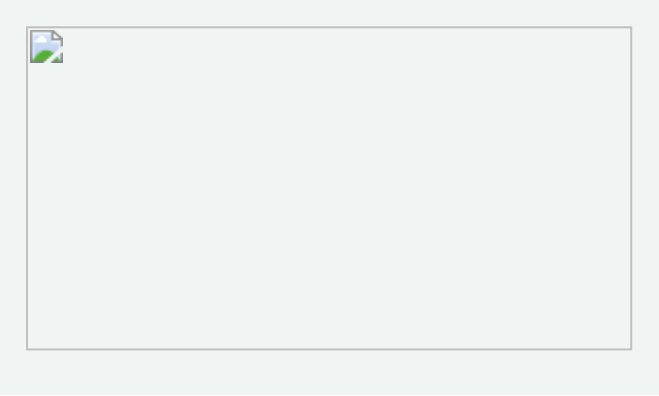
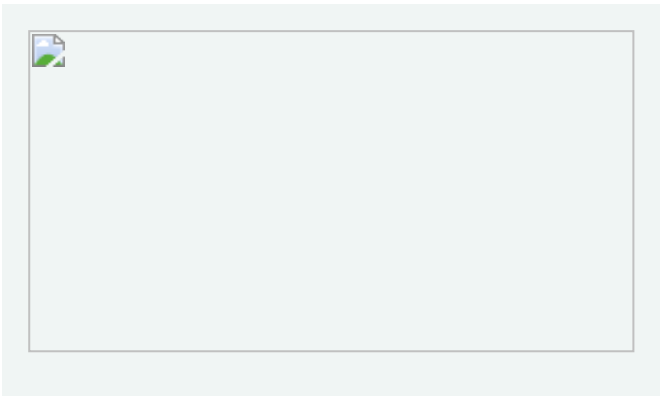
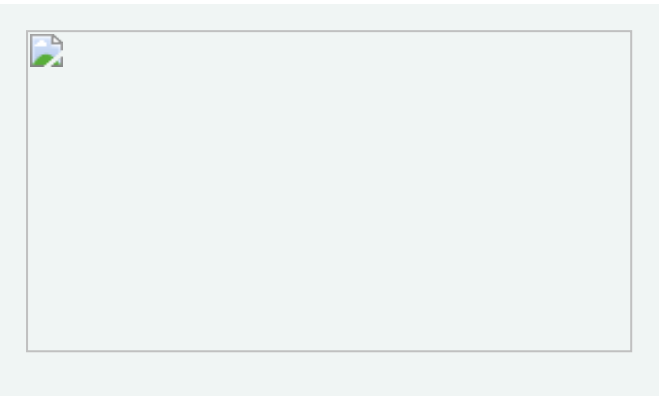
Tested to further than 1 km radio range line-of-sight (LOS) with the Crazyradio PA

06 Wireless firmware updates

07 Dual-MCU architecture

Supports Real-time logging, graphing and variable setting in addition to full use of expansion decks when using a Crazyradio or Crazyradio PA and a computer

Product Gallery



Hardware Overview

Applications

- **Use the Crazyflie 2.X for development:** The Crazyradio PA enables you to connect the Crazyflie 2.X to a computer wireless and download new firmware, modified to your liking. The logging and parameter frameworks provide APIs for getting and setting data in the Crazyflie 2.X live, even when you are flying! All software, firmware, as well as clients on the computer that is open source and the source code is available for you to play with as you like.
- **Paint in the dark with a Crazyflie:** The Crazyflie 2.X is fun to fly as is but adding the LED-ring deck and flying in the dark adds a new dimension. The RGB LEDs let you choose any colour and with some coding any light sequence can be displayed, for instance, controlled by the on board sensors. Why not take photos with an open shutter of a moving Crazyflie 2.X and paint in the dark?
- **assistance when flying the Crazyflie and Crazyradio PA:** Flying a quadcopter like the Crazyflie manually requires some skill and practising. By adding the Flow deck v2 the Crazyflie gets more information about its motion and can assist the pilot. note: Currently assisted mode is only supported when flying using a computer and gamepad, not with a mobile device.
- **awareness of the surroundings to the Crazyflie and Crazyradio PA:** The Multi-ranger deck measures the distance to objects forward/back/left/right and up. It can be used for obstacle avoidance, mapping a room or games where the Crazyflie 2.X “bounces” between the walls of a room. Combine with a Flow deck v2 to measure the distance to the floor as well and support autonomous flight.

Resource Links

- <https://www.seeedstudio.com/Crazyflie-2-1-Brushless-p-6315.html>
- [Start here](#)
- [Development](#)
- [Getting help](#)
- [crazyflie_2_1_plus-datasheet.pdf](#)

Seeed Technology Co.,Ltd.

9F, Building G3, International E City,
Zhongshanyuan Road, Nanshan, Shenzhen, China

Tel: +86 0755-80695676

Web: www.seeed.cc

Shop: www.seeedstudio.com