COCIONE Pro/Lite



Before using CoDrone's software, you need to install CoDrone USB Driver first. Rokit Bluetooth Module (new BLE) must have the latest version of the software. http://robolink.co.kr/download_eng.html

Or, go to Robolink'shomepage ▶ EDUCATION menu ▶ Technical support

You can operate CoDrone after installing the driver and PC software.



Bottom Range Sensor distance to floor



Battery Fully charges in 40 minutes



Flight range Distance : Max 160 ft Time: Up to 8 min.



Assists with altitude contro



Hovering Optical flow sensor for hovering



Bluetooth



Atitude sensor 3-axis gyroscope 3-axis accelerometer



Dimensions 133 mm x 133 mm



Weight Only 37 g

Components – CoDrone Pro



Smart Inventor Board

- Joystick modules
 - · Extra propellers
- Rokit Bluetooth Module (BLE) · 4-pin cable
 - 3-pin cable
- · Battery charger
- Rattery
- Propeller Replacement tool
- · Driver (Screw. Nut)
- Bolts, Nuts, and Supporting beams
- · USB Downloader (CP 210)

Components – CoDrone Lite

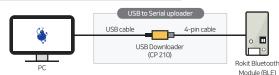


- Rokit Bluetooth Module (BLE)
- Battery, Battery charger
- 4-pin cable · USB cable
- (CP2102 USB to UART Convertor) Propeller Replacement tool

Starting CoDrone

for **Pro** / Lite *Irrelevant to DIP Switch

Step 1. Connect the BLE board to PC



Connect in order PC > USB cable > USB Downloader (CP 210) > 4-pin cable > Rokit Bluetooth Module (BLE)

Red light blinks when connecting the PC to the USB cable

Step 2. Download CoDrone's USB Helper Drive



Go to Software Download ▶ VCP Drivers page in silabs.com, then download proper file for your operating system

Download USB Helper Download at the bottom of Products menu in download page. (robolink.co.kr/download_eng.html) ${\sf Run\, USBHelper_vX. exe}, \, {\sf select\, the\, port\, you\, connected\, the}$ board, and click CP210X Driver Setup.

Download Software

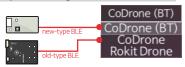
"X" is version information.



Drone Simulator

Download the program from [CoDrone] \blacktriangleright Drone Simulator

Step 3. Pairing - Drone Simulator



Connect D

Select Proper BLE mode, and then press







Searching for signal (blinking)

For information related with Rokit Brick, Arduino, and Mobile application, go to robolinkSW.com,

Step 4. Control CoDrone

Drone Simulator









Take off: Press W key

Software



Through Smart Inventor Board, You can program with joystick, analog sensors, and digital

only for Pro







way of Scratch's Drag & drop so that beginners can use it

for Pro / Lite













for **Pro** / Lite Use your smartphone app lication to control the drone, drive kit, and camera kit,

Mobile (Smartphone)



Download (eng)

for Pro / Lite

http://robolink.co.kr /download_eng.html

Check with the video



/sw_eng/codrone/ 01 codrone.html







1) Check if all components are prepared.



2) Assemble the controller with components.



3) Connect the board and cable while paying attention to cable's color.







Controller assembly instruction

https://goo.gl/CXrTgf

- 4) Turn on the power of Inventor Board and CoDrone, and then pair each other.
 - ▶ Refer to "Connect CoDrone to Inventor Board" on the next page.
 - ▶ All the channel of DIP Switch is fine.

for Pro / Lite Check FAQ to solve the problems https://goo.gl/HG8nDE

Connect CoDrone to Inventor Board

only for **Pro**

- 1. Turn on CoDrone's power.
- 2. Turn on Smart Inventor Board's power.
- 3. Wait for the connection.
- 4. LED lights on the Board move to the center and then stop.







- 5. CoDrone's LED stops blinking.
- 6. All pairing processes complete.

Caution

If CoDrone unexpectedly powered off or pairing failed, repeat the procedures $1\sim5$ above.

Calibrate the drone

Required
- Adjusting the drone's sensor



Calibration(sensor adjustment)

is required after purchase and before the first flight.



- 1. Flip over the drone and press the button on the left for 5 seconds.
- 2. When the light on the drone flashes, flip the drone over again so it is upright on the ground.
- 3. The drone corrects the sensor value while flying, and lands after the calibration.
- * Calibration: Correction of the drone's sensor value to fit the user's environment.
- * Check the battery before calibrating the drone.
- * Demonstration and practice videos are on the CoDrone YouTube channel ▶

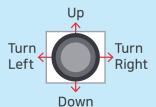
only for **Pro**

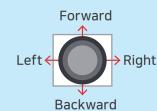


Play it - Control

Control the drone with joystick













[][][][][] (The rightmost







Landing



Emergency Stop

CoDrone Warranty

Quality Certificate

This certificate ensures protecting rights of consumers who bought CoDrone Package. Our company will provide paid/free service to our customers, as in the following details.

- 1. Warranty Details: Robolink will conduct following guarantees, under the provision of Consumer Compensation Rules by Item. If manufactural defect or spontaneous failure occurs before the expiration of the term of guarantee, you are qualified to receive free services from us.
- 2. Term of Guarantee: Up to 1 year since the purchase date (Each component in this package has different policies; read the Range of Assurance below)
- 3. Determination of Assurance : Will be determined after consultations by telephone or online services, or by direct discussion in exhibitions.
- 4. Range of Assurance (Refer the table below)

Component	Term of Guarantee	Guarantee Exclusions
CoDrone's Mainboard	1 year since the purchase	Simply because consumers'change of mind Maintenance/Repair of devices after term of guarantee Failure or damage caused by customers' misuse or mistake Failure not caused from the device itself Arbitrary dismantle or action taken by customers Problems caused by products from other companies
Smart Inventor Board		
Charger		
Battery	2 months since the purchase	
Propellers	Not applied	
Propeller's Guard		
Propeller Motors		