

WIRELESS REMOTE CONTROL DIRECT CONTROL



RECEIVER

WIRELESS
REMOTE CONTROL
(SENDER)



The Wireless Remote Control enhances the operation of COBOD 3D printers by providing the operator with direct and intuitive manual control. Its wireless design allows the operator to move freely within the printable area, eliminating the constraints of cables.

The solution consists of the Remote Control (sender) and a receiver installed on the Z2-carriage. The Remote Control features 12 two-step buttons and an emergency stop, enabling precise control of movements in X, Y, Z, and U directions. It also provides control over the extruder and pump actuation, error acknowledgment, and an additional button reserved for future functionalities.

This remote is particularly useful for calibrating the start position and realigning the printhead. It also allows a single operator to easily detach the printhead by simultaneously controlling its movement with the Remote Control.



Engaging Experience

The Remote Control enhances the user experience by improving manual control of COBOD 3D printers, making operations even more efficient and seamless.



Freedom to move

The wireless design of the Remote Control provides operators with the freedom to move within and outside the printable area without the restrictions of cables, thereby enhancing operational flexibility.



Enhanced Safety

The Remote Control features an emergency stop button designed to immediately stop operations, ensuring the highest level of operational security and safety.



Power Management

A battery level warning alerts the operator 20 minutes before recharging is required, providing sufficient time to manage battery replacement safely. Additionally, the Remote Control includes an adaptor for using 3 standard AA batteries, ensuring uninterrupted operation.

TECHNICAL SPECIFICATIONS

HARDWARE

Dimensions (Sender)	210 mm x 76 mm x 37 mm 8.2 in x 3 in x 1.4 in
Dimensions (Receiver)	176 mm x 77 mm x 250 mm 6.9 in x 3 in x 9.8 in
Weight (Sender)	400 g 0.9 lbs
Weight (Receiver)	832 g 1.83 lbs
Power Supply (Sender)	Replaceable, rechargeable lithium-ion battery, with an adapter option for using 3 standard AA batteries
Charger (Sender)	Tele Radio adapter, 100-240V AC
Operating Time (Sender)	Approx. 150 h with D4-02 Li-ion battery (depending on settings)
Charging Time	Up to 2 hours to fully recharge the lithium-ion battery
Operating Range	Up to 50 meter (164 ft) in open space
Radio Frequency Band	2405 – 2480 MHz
Radio Communication	Simplex
IP Code	IP65
Operating Temperature	-20 to +55 °C -4 to +130 °F
Latency	Less than 100 ms
Safety Features	Built-in emergency stop, auto signal loss detection

SOFTWARE

Requirement	PLC software version 2024R2 and forward
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To schedule the software update, please send an email to techsupport@cobod.com.



Sender Functionalities

The Wireless Remote Control (sender) features twelve buttons: the first eight facilitate precise printer movements in the X, Y, Z, and U directions. The remaining four buttons include a grey extruder button for material extrusion, a light blue pump button for material feeding to the hopper, a green error acknowledgment button for responding to error messages, and an additional button reserved for future functionalities.

As a safety device with a built-in emergency stop, the remote must be powered on and within signal range during machine operation.

**The illustration shows the receiver placement for the BOD2 3D Construction Printer.*



Receiver Installation*

The solution consists of the Wireless Remote Control (sender) and a receiver (illustrated above), which is installed on the Z2-carriage. The installation process for the receiver is straightforward and does not require a deep understanding of the machine's internal mechanisms.

For a more detailed explanation of the Wireless Remote Control, please click the button below.

[Read more](#)