
The wireless operating panel BWK201R description

1 Introduction

The Wireless Operating Panel BWK201R consists of the Wireless panel and the Wireless Adapter. The Wireless panel establishes wireless communication with the Wireless Adapter. The Wireless Adapter is connected to RD motion controller. The Wireless panel can send the commands to the machine with wireless device.

The recommended working distance is 10m. With BWK201R, user can operate the laser machines no matter where he is within 10m distance. It made it very convenient to test or operates the laser machines.

NOTICE: BWK201R is just only for RDC6442G, RDC6442S.

2 The Wireless Panel

The Wireless panel is shown in Figure 2-1.

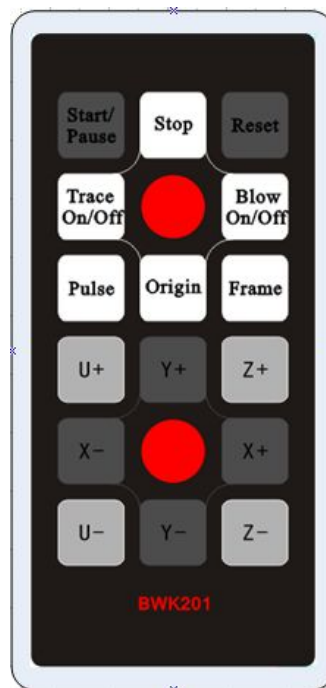









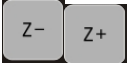
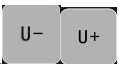


Figure 2-1 the Wireless Handle

The following is the description of the buttons:

“Start/Pause”Button  : start work or pause work

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- “Stop”Button  : stop work
- “Reset”Button  : reset the control board and HOME
- “Trace On/Off” Button  : control the LFS module
- “Blow On/Off” Button  : open / close air blowing
- “Pulse”Button  : laser emission
- “Origin”Button  : set positioning point
- “Frame”Button  : move along the rectangle scale of the curves
- “X+/-” Button  : X axis movement
- “Y+/-” Button  : Y axis movement
- “Z+/-”Button  : Z axis movement
- “U+/-”Button  : U axis movement

LED flash note of the Wireless Handle is shown in Table 2-1.

Table 2-1 LED description of the Wireless Handle

DEVICE	STATUS	The Wireless Handle status
LED	Always On	The Wireless Handle is in standby status
LED	Flicker	The Wireless Handle is in linking status
LED	Always Off	The Wireless Handle is in power off status

3 The Wireless Adapter

The Wireless Adapter is shown in Figure 3-1.

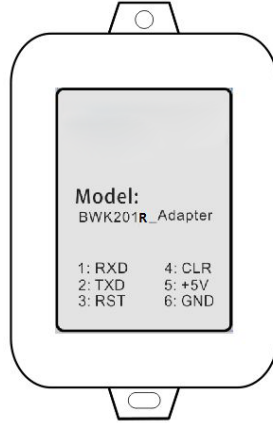


Figure 3-1 the Wireless Adapter

LED flash note of the Wireless Adapter is shown in Table 3-1.

Table 3-1 LED flash note

DEVICE	STATUS	The Wireless Adapter status
LED	Always On	The communication is established
LED	Flicker	The Wireless Adapter is transmitting data
LED	Always Off	The Wireless Adapter is power off

The P1 interface definition of the Wireless Receiver is shown in Table 3-2.

Table 3-2 The P1 interface definition

PIN	SIGNAL	DEFINITION	EXPLANATION
PIN1	RXD	Received data	
PIN2	TXD	Send data	
PIN3	RST	Reset	Low level valid
PIN4	CLR	clear module address	High level valid
PIN5	+5V	+5V source input	
PIN6	GND	Referenced Ground	

4 RDC644XG Control Board Connection Description

When connecting with RDC6442G, RDC6442S Control Board, the wiring diagram of the Wireless Receiver and the RDC6442G, RDC6442S Control Board is shown in Figure 4-2.

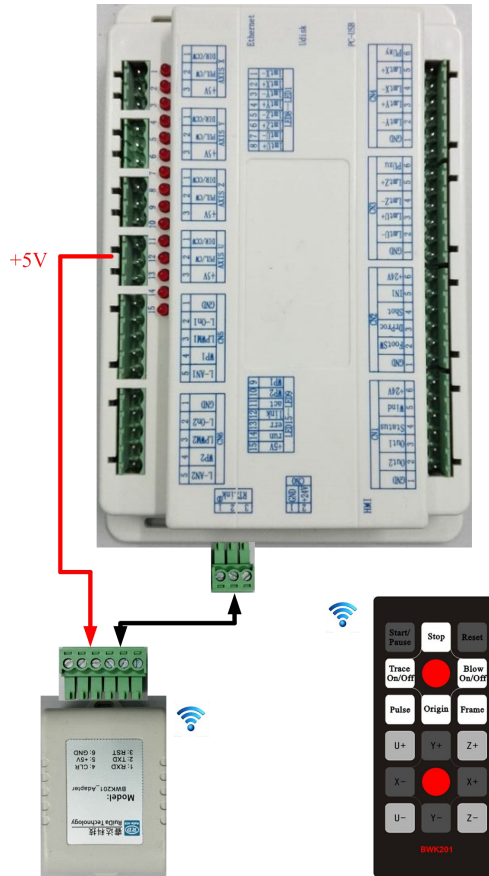


Figure 4-2 RDC6442G, RDC6442S Control Board Connection Description

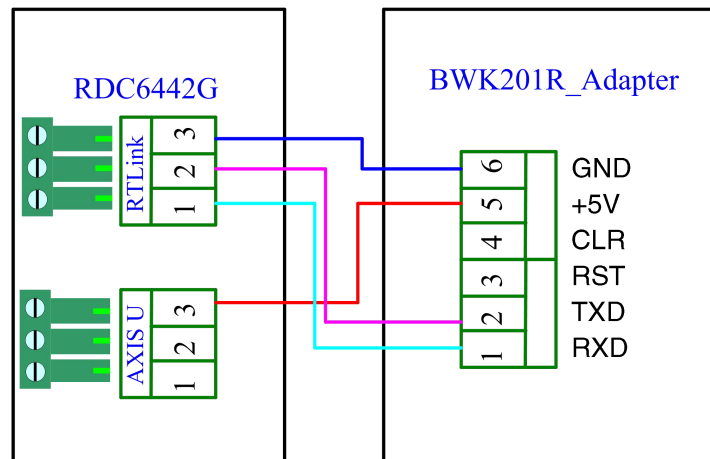


Figure 4-3 RDC6442G, RDC6442S wiring diagram