Red Scan WBT-2D

Wireless Barcode Scanner

iBall



User Manual

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Thank you for choosing **Red Scan WBT-2D Wireless Barcode Scanner.** Please read the user manual carefully before operation and save this user manual for further reference.

Caution :

- Reading window must be kept clean.
- Avoid the reading window to be abraded or scratched by hard and rough objects.
- Avoid liquid spilling to the reading window.
- Do not stare into beam when the led light on.
- *Please do not attempt to disassemble this product yourself, as it will result in voiding the warranty. For expert assistance, please contact our support team at 84400 45005 or feedback@iball.co.in*

To review our complete warranty terms and conditions, please click the link below

View Warranty Policy

To find your nearest authorized service center, please click the link below

Find a Service Center

Features :

- 2D Quick Scan
- 3-in-1 Connectivity (BT | 2.4 GHz | Wired)
- Up to 30,000 Scans / Charge*
- 1200 mAh Battery
- Type-C Charging
- Dual Scan (Trigger / Continuous)
- Up to 100 m Wireless Range*
- Omnidirectional Scanning
- Auto Sleep
- 1.5m Drop Proof
- Mobile Screen Scan
- Offline Storage
- Multi-OS Compatible

Specifications :

Device Type	: Handheld
Connectivity	: Wireless | Wired
Barcode Dimension	
Support	: 1D/2D
Indicators	: Buzzer, LED
Scan Rate	: 0.5 M/S
Scan Angle	
Pitch	: ± 60°
Yaw	: ± 60°
Roll	: ± 360°
CMOS Sensor Resolution	: 640*480

BT Name	: RedScanWBT_HID
Field Of View	
Horizontal View	: 29 °
Vertical View	: 37 °
Offline Storage	
Memory Size	: 200KB
No.of Barcode Stores	: 20000 (10 digit)
Battery Capacity	: 1200mAh
Input Voltage	: DC 5V
Operating Current	: 170mA
Power Consumption	: 0.85W
Resolution	: ≥4mil (1D) ≥7mil (2D)
Light Source	: 617nm
Housing Material	: PVC
OS Compatibility	: Windows, Linux & Mac
Product Dimension	: 6.5 x 8.5 x 17.5 cm (W x D x H)
Net.Weight	: 152 g

**Performance may vary depending on usage conditions and environment.*

Package Contents :

Scanner	: 1 U
Charging Cable	: 1 U
USB Receiver	: 1 U
QR Code Guide	: 1 U

Pairing Instructions :

A. Barcode Scanner Pair with USB Dongle

Step 1 : Scan Below Pairing barcode I, barcode II in sequence, and the scanner LED indicator becomes blue flashing.



I



II

Step 2 : Insert the USB dongle into the host device, and wait a few seconds for automatic pairing. The scanner's LED indicator turns blue once pairing is successful.

B. Barcode Scanner Pair with BT Device

Step 1 : Scan Below Pairing barcode I, barcode II in sequence, and the scanner LED indicator becomes blue and flashing.



I



II

Step 2 : Open the BT settings on your mobile phone, tablet, laptop, or other compatible device and search for "**RedScanWBT_HID**" then connect it. When the scanner LED indicator becomes blue, the pairing is completed.

C. Wired Mode (Using a USB-A to Type-C Cable Which Supports Data Transfer)



Wired Mode Enable



Wired Mode Disable

Factory Default :
Scan the **Factory Default** barcode to restore the scanner to its default configuration.



Factory Default

Note : *Restoring factory settings will reset previously configured scanner settings.*

Inventory Mode :

Scan the barcode to store scanned data in the scanner's internal memory. The data can be uploaded to the computer later by scanning the upload setting barcode.

Note : *This Mode works only under 2.4GHz Mode.*



Inventory Mode Enable



Inventory Mode Disable

Data Upload Instruction in Inventory Mode

Scan one of the barcodes below to manage the stored data in the scanner's internal memory.



Upload All Data



Upload New Data



Display All Data



Display New Data



Data Delete

Image Reverse :
Image Reverse allows the scanner to read barcodes with reversed image orientation.

- **Disable** - Scan the Disable barcode to turn off Image Reverse.
- **Enable** - Scan the Enable barcode to turn on Image Reverse.



Disable



Enable

URL Barcode Configuration :

- **Disable** - Disables URL barcode configuration.
- **Enable** - Enables URL barcode configuration.



Disable



Enable

Barcode Type :
You can choose which barcode types the scanner should recognize.

- **Enable All 1D Barcodes** - Enables scanning of all supported 1D barcodes.

- **Enable All 2D Barcodes** - Enables scanning of all supported 2D barcodes.



Enable All 1D Barcodes



Enable All 2D Barcodes

Transmit Speed :

The transmission delay controls how quickly scanned data is sent to the connected device.

- **No Delay (Default)** - Sends scanned data without additional delay.
- **10 ms Delay** - Adds a 10 ms delay between transmitted characters.
- **20 ms Delay** - Adds a 20 ms delay between transmitted characters.



No Delay (Default)



10 ms Delay



20 ms Delay

Tip : If your computer or application does not receive scanned data correctly, try using the 10 ms or 20 ms delay setting.

End Character :

The scanner can automatically add an end character after each scanned barcode.

- **CR (Default)** - Adds a carriage return after each scan, which is commonly recognized as an Enter action by the connected device.
- **Disable** - Disables the automatic end character.



CR (Default)



Disable

Buzzer :

The buzzer provides audible feedback during scanner operation.

- **ON** - Enables the buzzer sound.
- **OFF** - Disables the buzzer sound.



ON



OFF

Prefix Setting :



Enable Prefix



Disable Prefix



Modify Prefix

Follow the steps below to add the prefix “A” :
Step 1 : Scan the “Enable Prefix” code;
Step 2 : Scan the “Modify Prefix” code;
Step 3 : Scan the hexadecimal value for “A”, which is 41. Scan “4” followed by “1” in sequence. (Refer to Appendix 1 & Appendix 2.);
Step 4 : Scan the “Save" code to save the prefix setting. (Refer to Appendix 1).

Suffix Setting :



Enable Suffix



Disable Suffix



Modify Suffix

Note : *The method of adding the suffix is the same as the prefix.*

Appendix 1 :



0



1



2



3



4



5



6



7



8



9



A



B



C



D



E



F

Save Setting :

After reading the “Data Code,” you must read the “Save” setup code to save the data.



Save

Appendix 2 :

Hex	Char	
00	NUL	(Null char.)
01	SOH	(Start of Header)
02	STX	(Start of Text)
03	ETX	(End of Text)
04	EOT	(End of Transmission)
05	ENQ	(Enquiry)
06	ACK	(Acknowledgment)
07	BEL	(Bell)
08	BS	(Backspace)
09	HT	(Horizontal Tab)
0a	LF	(Line Feed)
0b	VT	(Vertical Tab)
0c	FF	(Form Feed)
0d	CR	(Carriage Return)
0e	SO	(Shift Out)
0f	SI	(Shift In)
10	DLE	(Data Link Escape)
11	DC1	(XON) (Device Control 1)
12	DC2	(Device Control 2)
13	DC3	(XOFF) (Device Control 3)
14	DC4	(Device Control 4)
15	NAK	(Negative Acknowledgment)
16	SYN	(Synchronous Idle)
17	ETB	(End of Trans. Block)
18	CAN	(Cancel)
19	EM	(End of Medium)
1a	SUB	(Substitute)

1b	ESC	(Escape)
1c	FS	(File Separator)
1d	GS	(Group Separator)
1e	RS	(Request to Send)
1f	US	(Unit Separator)
20	SP	(Space)
21	!	(Exclamation Mark)
22	"	(Double Quote)
23	#	(Number Sign)
24	$	(Dollar Sign)
25	%	(Percent)
26	&	(Ampersand)
27	'	(Single Quote)
28	(	(Left / Opening Parenthesis)
29	)	(Right / Closing Parenthesis)
2a	*	(Asterisk)
2b	+	(Plus)
2c	,	(Comma)
2d	-	(Minus / Dash)
2e	.	(Dot)
2f	/	(Forward Slash)
30	0	
31	1	
32	2	
33	3	
34	4	
35	5	
36	6	
37	7	
38	8	
39	9	
3a	:	(Colon)
3b	;	(Semi-colon)
3c	<	(Less Than)
3d	=	(Equal Sign)
3e	>	(Greater Than)
3f	?	(Question Mark)
40	@	(AT Symbol)
41	A	
42	B	
43	C	
44	D	
45	E	
46	F	

47	G	
48	H	
49	I	
4a	J	
4b	K	
4c	L	
4d	M	
4e	N	
4f	O	
50	P	
51	Q	
52	R	
53	S	
54	T	
55	U	
56	V	
57	W	
58	X	
59	Y	
5a	Z	
5b	[	(Left / Opening Bracket)
5c	\	(Back Slash)
5d	]	(Right / Closing Bracket)
5e	^	(Caret / Circumflex)
5f	_	(Underscore)
60	`	(Grave Accent)
61	a	
62	b	
63	c	
64	d	
65	e	
66	f	
67	g	
68	h	
69	i	
6a	j	
6b	k	
6c	l	
6d	m	
6e	n	
6f	o	
70	p	
71	q	
72	r	

73	s	
74	t	
75	u	
76	v	
77	w	
78	x	
79	y	
7a	z	
7b	{	(Left / Opening Brace)
7c	|	(Vertical Bar)
7d	}	(Right / Closing Brace)
7e	~	(Tilde)
7f	DEL	(Delete)



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