

# **BST300BT**

Wireless Barcode Scanner



Ba11



## **User Manual**

*Designed For Excellence.*

[www.iball.co.in](http://www.iball.co.in)

Thank you for choosing **BST300BT 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.
- *Avoid self-disassembly of the Barcode Scanner, Kindly approach our service team with reference to the following link for service support:*

**Warranty Policy**

## Features :

- Triple Connectivity Options  
(BT, 2.4 GHz, Dock Mode)
- Fast 2D Scanning
- Supports 30,000 Scans/ Full Charge\*
- High-Capacity 2200 mAh Battery
- Triple Scan  
(Trigger / Continuous / Auto sensing)
- Wireless Range Up to 80 m\*
- Dual Charging Support (Type-C & Dock)
- 1.5 m Drop Proof
- Scan Directly from Mobile Screens
- Onboard Data Storage
- Compatible Across Multiple Operating Systems

## Specification :

Device Type	: Handheld
Connectivity	: Wireless
Barcode Dimension	
Support	: 1D/2D
Indicators	: Buzzer, LED
Scan Rate	: 1 m/s
Scan Angle	
Rotation	: 360°
Yaw	: ± 65°
Pitch	: ± 65°
CMOS Sensor Resolution	: 640 x 480p

Field of View	
Horizontal	: 48 °
Vertical	: 30 °
Offline Storage	
Memory Size	: 200KB
No. of Barcode Stores	: 20000 (10 digit)
Battery Capacity	: 2200mAh
Input Voltage	: DC 5V
Operating Current	: 160mA
Power Consumption	: 0.8W
Resolution	: ≥4mil
Light Source	: 650nm
Housing Material	: ABS+PC
OS Compatibility	: Windows, Linux & Mac
Cable Length	: 2m
Product Dimension (W x D x H)	
With Dock	: 9.5 x 11.5 x 17.5cm
Without Dock	: 6.5 x 8.5 x 17.5cm
Net.Weight	: 203g

### **Package Contents :**

Scanner	: 1 U
Dock	: 1 U
Input Cable	: 1 U
Charging Cable	: 1 U
QR Code Guide	: 1 U

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



Version



Factory Default

### Pairing Instruction :

#### 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, place the scanner into the dock and wait a few seconds for automatic pairing. The scanner's LED indicator turns blue once pairing is successful. If pairing does not occur, press the button on the dock once to initiate pairing.

#### 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 mobile device bluetooth settings and search for "iBall T300\_HID" then connect it. When the scanner LED indicator becomes blue, the pairing is complete.

## Wireless Mode :



Normal



Inventory



Automatic Storage  
(Default)

## Operating Modes :

### A. Instant Upload Mode :

- Scan the corresponding barcode to activate Instant Upload Mode. A confirmation “beep” will be heard.
- In this mode, all scanned data is transmitted to the computer immediately.

### B. Internal Storage Mode (Inventory Mode) :

- Scan the corresponding barcode to activate Inventory Mode. A confirmation “beep” will be heard.
- In this mode, scanned data is stored in the device’s internal memory.
- To upload the stored data to the computer, scan the “Data Upload” barcode (refer to Data Upload Instruction in Inventory Mode below).



Upload All Data



Upload New Data



Display All Data



Display New Data



Delete Data

### **C. Automatic Storage Mode (Default Mode) :**

- Scan the corresponding barcode to activate Automatic Storage Mode.
- When the connection signal is strong, a “beep” sound is heard, and scanned data is uploaded to the computer instantly.
- When the signal is weak or unavailable, a “tick” sound is heard, and scanned data is stored in internal memory.
- Once the connection is restored, all stored data is automatically uploaded to the computer.

### **Transmit Speed :**



No Delay (Default)



Delay 10ms



Delay 20ms

### End Character :



CR & LF



CR (Default)

- CR & LF - Adds a complete new line after each scan.
- CR (Default) - Adds an Enter key after each scan.

### Scan Mode :



Manual (Default)



Continuous



Auto-Sensing

### Buzzer :



ON



OFF

### KeyBoard Language :



USA (Default)



Czech



France



Germany



Spain



Italy



Turkey Q



Turkey F



Brazil



Russia

**Image Reverse :**



Disable



Enable

**URL Barcode Configuration :**



Disable



Enable

**Turn ON/OFF Symbologies**



Enable All  
1D Barcodes



Disable All  
1D Barcodes



Enable All  
2D Barcodes



Disable All  
2D Barcodes

**Sleep Time Setting :**



1 Minute



5 Minutes



No Sleep

**Prefix Setting :**



Enter Set



Allow Prefix



Prefix

Example - Add prefix "A"

Step 1 : Scan first code to enter into "Enter set";

Step 2 : Scan second code to enter into "Allow Prefix";

Step 3 : Scan Third code to add "Prefix";

Step 4 : Because ASCII value of A in Hexadecimal is "41", so scan "4" and "1" in sequence (Refer to Appendix 1 & Appendix 2);

Step 5 : Scan "Saved" code to save (Refer to Appendix 1).

**Suffix Setting :**



Enter Set



Allow Suffix



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



Saved

## 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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