

WBT-1200 SERIES

MANUAL SWIPE MAGNETIC

STRIPE CARD READER



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1. OVERVIEW

WBT-1200 series is compact size of Manual Swipe type card reader.

2. BASIC SPECIFICATION

Dimension	40mm(W) x 154mm(L) x 48.6mm(H)
Weight	190g(approx.)
Power Supply	+5V DV \pm 5%
Ripple	50mVp-p max.
Power consumption	65mA (max.)
Operation Locus	Indoor use

3. SPECIFICATION

Card Standard	ISO7811/7812		
Track Position	ISO 1 (IATA)	ISO 2 (ABA)	ISO 3 (MINTS)
Recording Density	210 BPI	75 BPI	210 BPI
Recording Capacity	79 Characters (7bits)	40 Characters (5bits)	107 Characters (5bits)
Reading Method	F2F		
Interface	PS/2, RS232, USB		
Card Thickness	Plastic 0.76 \pm 0.08mm		
Head Function	Read only 1.5mm		
Operation Speed	10 ~ 150cm/sec		
Life of Head	500,000 card passes (1 pass : one swipe)		
Error Rate	0.5% Less Than (JSE Test card)		

4. ENVIRONMENTAL REQUIREMENTS

Ambient Temperature

Storage : -30°C to +70°C

Operating : -20°C to +70°C

Ambient Relative Humidity

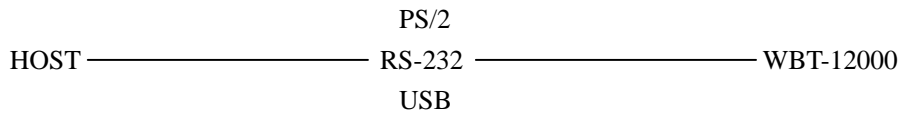
Storage : 0% to 95% RH

Operating : 20% to 90% RH

5. INDICATOR LED DESCRIPTION

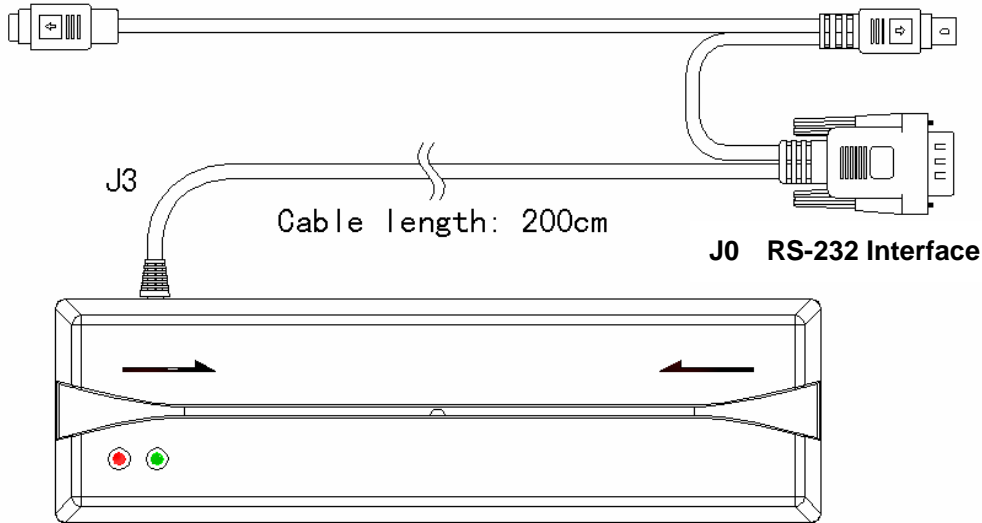
Color	Signal	Description
Green	Good	Card reading is normal
Red	Error	Card reading is abnormal

6. SYSTEM BLOCK DIAGRAM

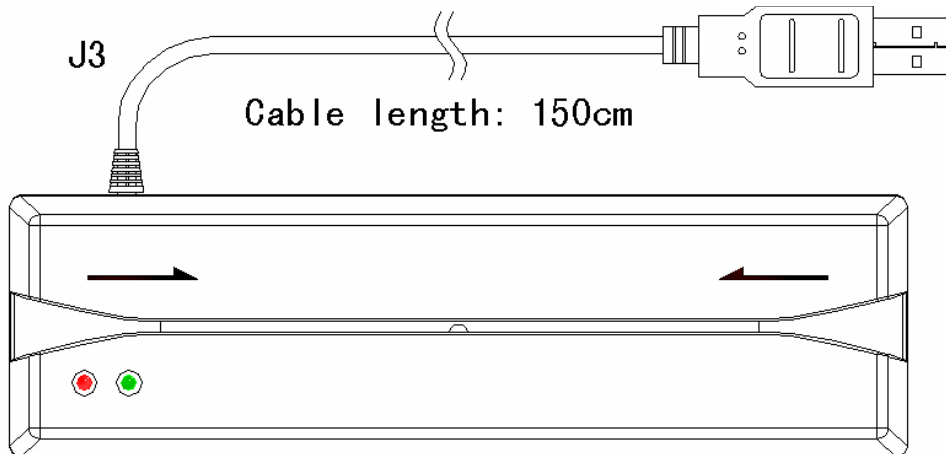


J4 For keyboard

J1 PS/2 Interface



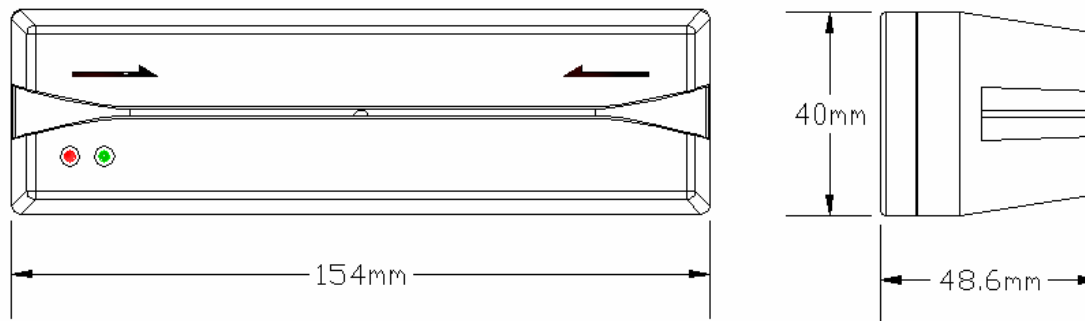
J2 USB Interface



7. TRANSMISSION DTA FORMAT

STX	SS	DATA	ES	CR	ETX	
0x02	%	DATA	?	0x0d	0x03	Track I
0x02	:	DATA	?	0x0d	0x03	Track II
0x02	+	DATA	?	0x0d	0x03	Track III

8. DIMENSION DRAWING



9. SWITCH SETTING

PS/2, USB Interface

Switch No.	On-Off Status		Function Description
SW1			Unused
SW2			Unused
SW3	ON: Switch	OFF: Do not switch	Switch in track 1 and track 3
SW4	ON: Do not beep	OFF: Beep	Beep after swipe card
SW5	ON: Do not alarm	OFF: Alarm	Alarm 3 times if error
SW6	ON: “;”	OFF: “+”	On-off “;” or “+” of Track 3
SW7	ON: Disable	OFF: Enable	Frame of all tracks
SW8	ON: Add	OFF: Do not add	Add “ENTER” after send

The default setting is: SW8 is ON. Others are OFF.

RS232 Interface

Switch No.	On-Off Status	Function Description
SW1		SW1、SW2 are for baud rate
SW2		SW1、SW2 are for baud rate

SW4	ON: Do not beep	OFF: Beep	Beep after swipe card
SW5	ON: Do not alarm	OFF: Alarm	Alarm 3 times if error
SW6	ON: “;”	OFF: “+”	On-off “;” or “+” of Track 3
SW7	ON: Disable	OFF: Enable	Frame of all tracks
SW8	ON: Add	OFF: Do not add	Add “ENTER” after send

SW1	SW2	Baud Rate
OFF	OFF	2400
OFF	ON	4800
ON	OFF	9600
ON	ON	19200

The default setting is: SW1 and SW8 are ON. Others are OFF.