

SPECIFICATION

Customer : _____

Customer's Model No. : _____

Model No. : SD320 _____

Contact to middle range barcode scanner Series _____

Sample Serial No. : _____

Spec. Version & Revision Date: V02 _____

2013.12.15 _____

Received/Approved by

SCANTECH ID[®]
CHAMPTEK Group

Web: <http://scantech-id.com>
E-mail: sales@scantech-id.com

SCANTECH ID
Heliumweg 34a 3812 RE Amersfoort,
The Netherlands

TEL: +31 (0) 33 4698400
FAX: +31 (0) 33 4650615

Revision History

Version	Date	Context
V01	2013.07.05	Golden release
V02	2013.12.15	Update drawing of keyboard wedge cable

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A. General Description

This well-designed handheld contact type linear imager scanner has inherited the characteristic of “high performance with low price” from its previous series. Aside from the principle of excellence mechanical design, it also installs with many user-friendly operations; detachable cable, 4-in-1 interface, and 2 years product warranty; these have added-up additional values to it.

As far as the performance, this scanner provides reliable scanning depth from contact to 50mm, Collaborating with POS or regular cash register system, user is able to program this device to “continuous mode ” or any other scan mode if needed,

Aid in various major barcodes, hand-on software-programming function, this economical-type barcode scanner is the best choice ever.



B. Physical Characteristics

Weight

Body weight Approx. 130g/ 4.58oz (w/o cable)

Material ABS & Rubber

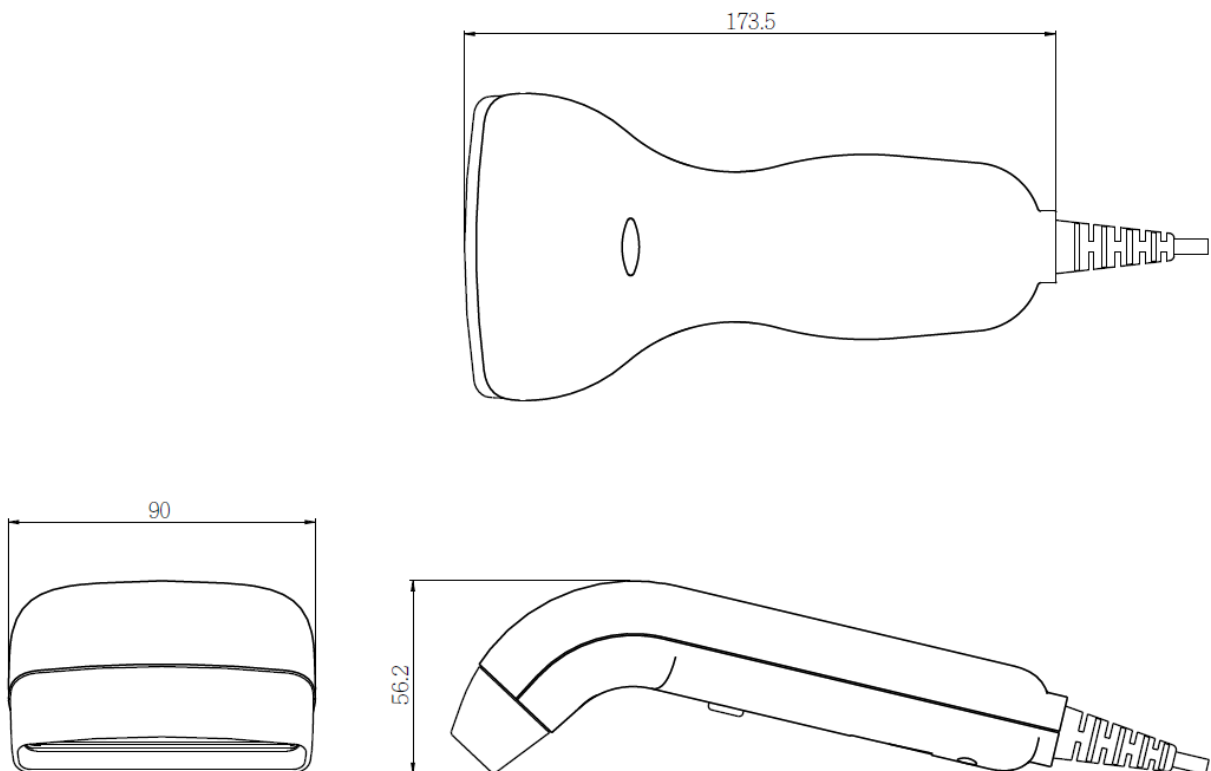
Connector RJ 45C 10Pins

Dimension 90mm W x 56.2mm H x 173.5 mm L

Color Available Beige or Black

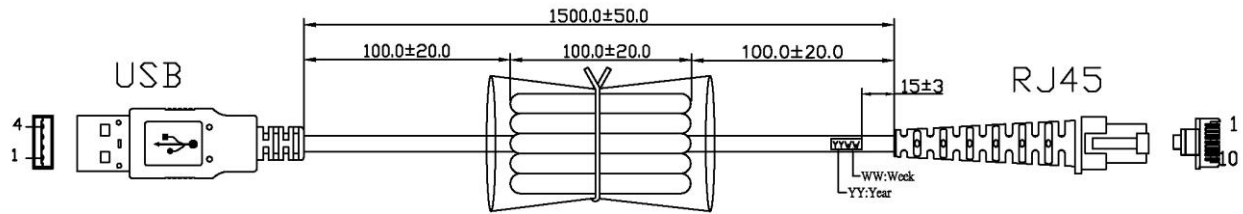
1) Mechanical drawing

(Unit: mm)



c.USB Interface

UNIT:mm



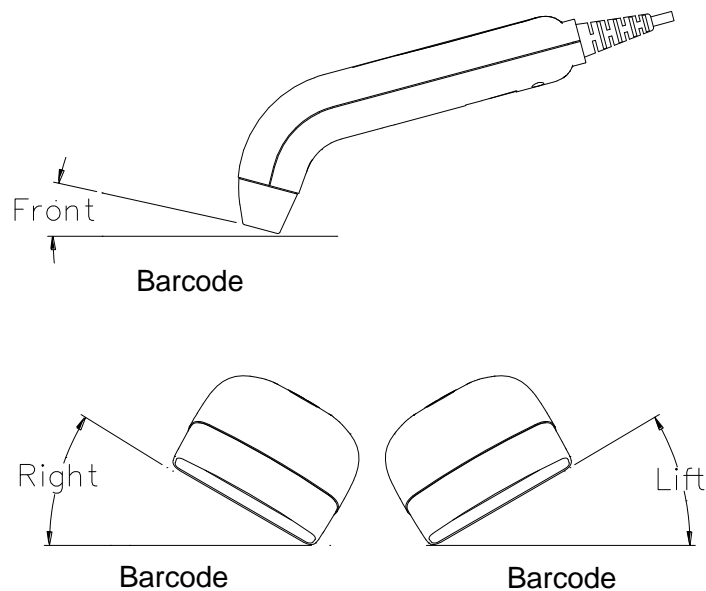
USB	RJ45	FUNCTION	COLOR
1	5	VCC	Red
2	4	D-	Bluc
3	2	D+	Green
4	3	GND	Brown
Shell	3	SHIELDING	

C. Electrical Characteristics

Interface	RS232	KB	USB
Supply Voltage	DC +5V±5%	DC +5V±5%	DC +5V±5%
Current Draw	±10% , is applicable to all interfaces.		
Power On (Typ.)	155 mA	153 mA	153 mA
Stand by (Typ.)	72 mA	71 mA	71 mA
Operation (Typ.)	124 mA	120 mA	122 mA

D. Performance

Light Source	Visible Red Light 32nm LED
Processor Type	32 bits
Operating Freq.	8 MHz
Scan Rate	120 scans per second $\pm 10\%$
Reading Distance	Up to 50mm@20mil/0.5mm, PCS90%
Width of Field	80mm at window, 90mm at 50mm depth
Print Contrast Ratio	30%
Resolution	4mil/0.1mm@ PCS90%, Code39
Reading Angle	<i>Test Conditions : Code 39, 10mil/0.25mm, PCS 90%</i>
Forward (Front)	$3^{\circ}\sim 45^{\circ}(\pm 5^{\circ})$
Left & Right	$\pm 25^{\circ}(\pm 5^{\circ})$
Ambient Light	
Fluorescent lamp	5,000 Lux Max.
Direct sun light	3,000 Lux Max.
Indicator	Beep and LED (Good read Green)



E. Environmental

Operating Temperature	0 °C to 50 °C (32 °F to 122 °F)
Storage Temperature	-20 °C to 70 °C (-4 °F to 158 °F)
Relative Humidity	20% to 95% (Non-condensing)

F. Readable Symbologies

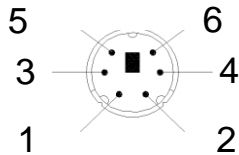
	Readable	Default Enable
All UPC/EAN/JAN	V	V
EAN128 Code	V	
Code 39	V	V
Code 39 Full ASCII	V	
Code32 / Italian Pharmacy	V	
Code 128	V	V
CODABAR/NW7	V	V
Interleave 25	V	V
Industrial 25	V	
Matrix 25	V	
MSI/PLESSEY	V	
Telepen	V	
Code 93	V	
Code 11	V	
China Postage	V	
Code 26	V	
LCD25	V	
GS1 DataBar Omnidirectional & Stacked	V	
GS1 DataBar Limited	V	
GS1 DataBar Expanded & Stacked	V	

G. Pin Assignment

a) Keyboard Interface

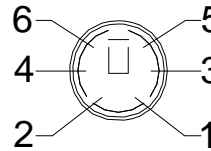
MiniDIN 6 MALE

Pin No.	Function
1	HOST DATA
3	GND
4	Vcc(+5V±5%)
5	HOST CLK



MiniDIN 6 FEMALE

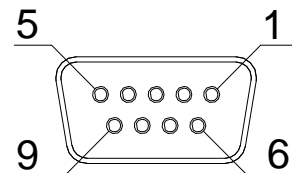
Pin No.	Function
1	KB DATA
3	GND
4	Vcc(+5V±5%)
5	KB CLK



b) RS-232 Interface

DB 9 Female

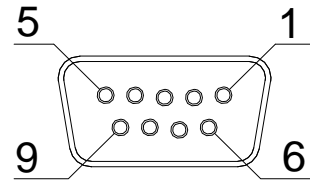
Pin No.	Function
2	TXD
3	RXD
5	GND
7	CTS
8	RTS
9	Vcc/+5V±5%
Power Lead	Vcc/+5V±5%



c) WAND Emulation Interface

DB 9 Female

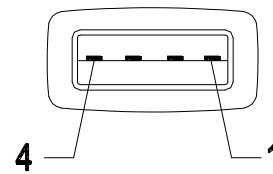
Pin No.	Function
2	DATA
7	GND
9	V _{CC} /+5V±5%



d) USB Interface

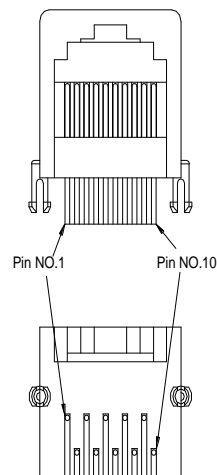
USB A Type Male

Pin No.	Function
1	V _{CC} /+5V±5%
2	D-
3	D+
4	GND



Decoder Data Output

Type	RJ45 10P
Pin No.	Function
1	RTS
2	HOST DATA
3	GND
4	HOST CLK
5	V _{CC} (+5V±5%)
6	KB CLK
7	TXD
8	KB DATA
9	RXD
10	CTS



H. Reliability

Life Time

Trigger Switch	1,000,000 times
MTBF(Calculated)	50,000 hours

Thermal Shock

High Temp.	60 °C (140 °F)
Low Temp.	-20 °C (-4 °F)
Cycle time	30 minutes for high temp. , 30 minutes for low temp.
Cycles	24 cycles

Cable Bending Test 25,000 times minimum (30 times/min. @ 500g/90°)

Drop 47.24 inches (120cm) drop on concrete surface

I. Packing

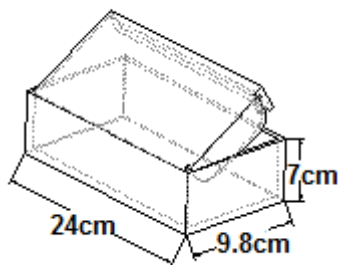
Dimension

Unit	24X9.8X7cm
Carton	42X38X26.5cm

Storage

Temperature	-20 °C to 60 °C (-4 °F to 140 °F)
Humidity	20% to 95% (Non-condensing)

Unit :



Carton :

