

SPECIFICATION

Received/Approved by



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Revision History

Version	Date	Context
V00	2004.04.22	Golden release
V01	2006.03.21	

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A. General Description

This brand-new designed handheld CCD 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; extra-large trigger enable user to access the trigger in any scanning position, detachable cable, 4-in-1 interface, and 2 years product warranty; these have added-up additional values to it.



Performance: this scanner supports reading depth up to 4 inches, best choice for retailers using POS or regular cash register system. User can program this scanner to “ continuous mode” and pair up with matching hand-free stand. Scanning can be an easiest task and be completed with hand-free.



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. 3.79 oz(118 g)(w/o cable)

Material

ABS

Connector

RJ 45C 10Pins

Dimension

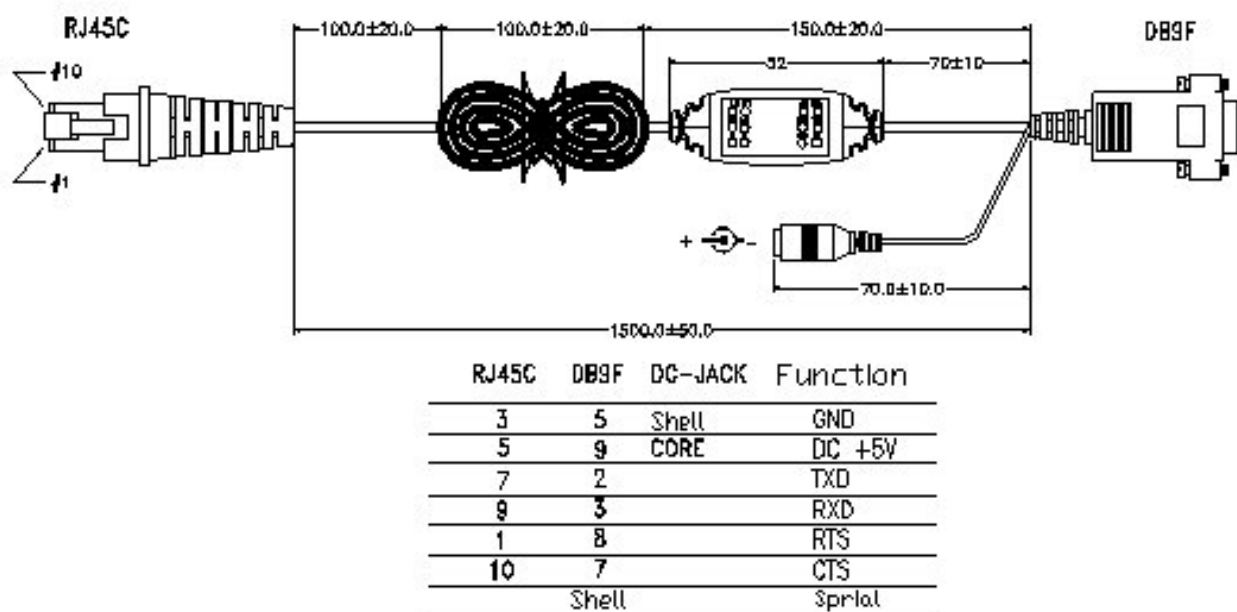
166.50 mm X 82.76 mm X 55.07 mm

Cable drawing

Unit : mm

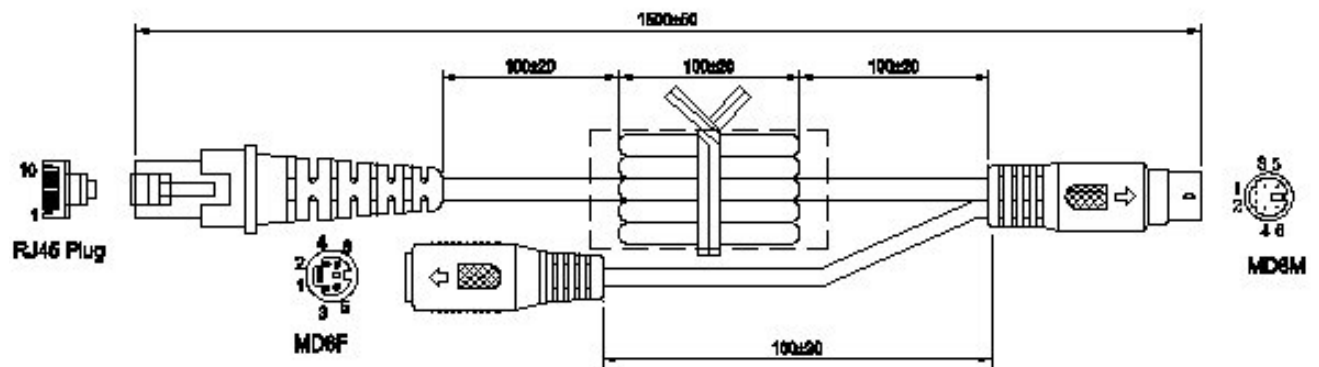
RS232 Interface :

Unit :mm



Keyboard Interface :

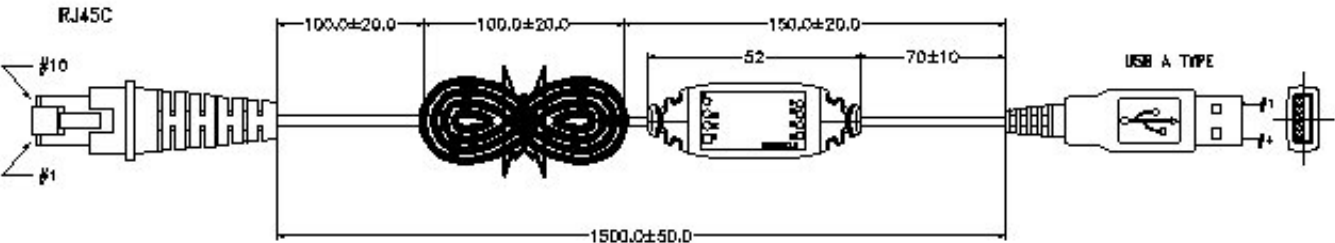
Unit : mm



RJ45C	Mini DIN6M	Mini DIN6F	Function
2	1		HOST DATA
3	3	3	GND
4	5		HOST CLK
5	4	4	Vcc
6		5	KB CLK
8		1	KB DATA
	Shell	Shell	SHIELDING

USB Interface :

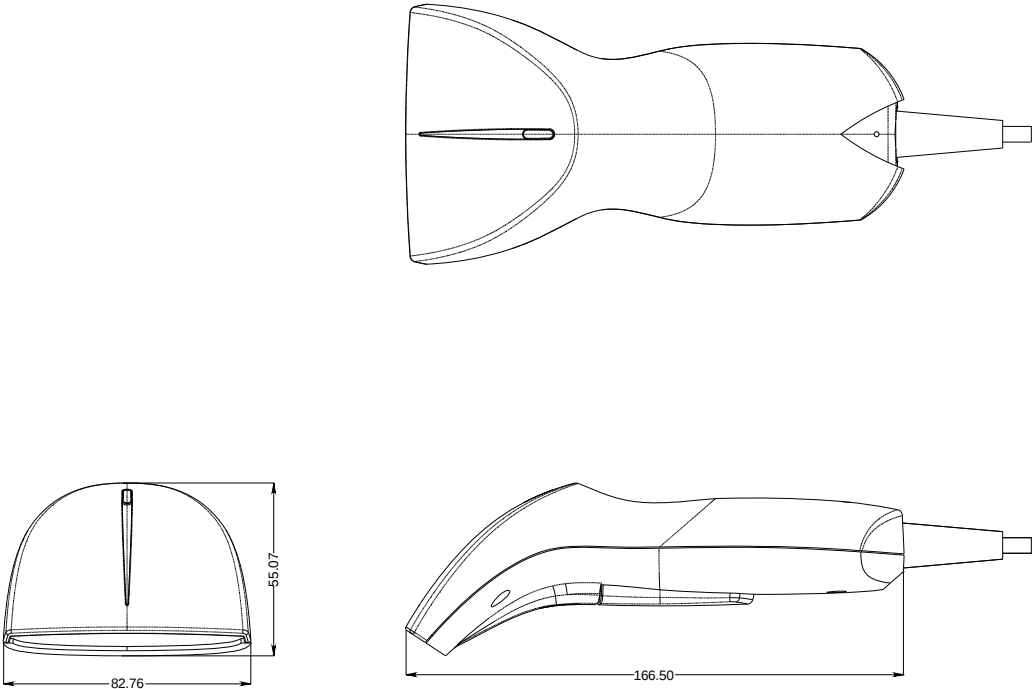
Unit : mm



RJ45C	Function
2	Host DATA
3	GND
4	Host Clk
5	DC +5V
	Shielding

USB A TYPE	Function
1	DC +5V
2	D-
3	D+
4	GND
Shell	Shielding

Mechanical drawing

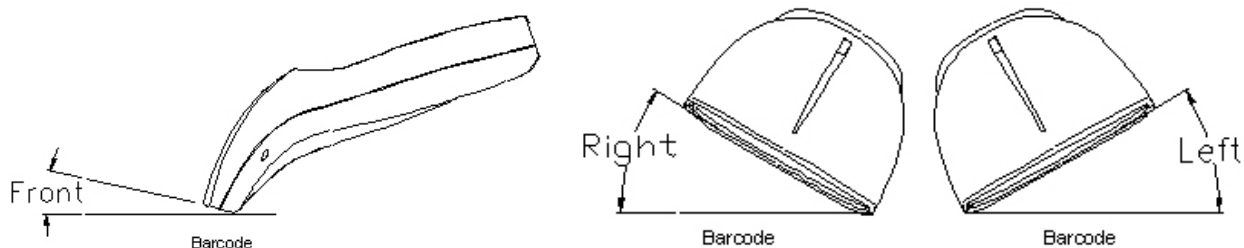


C. Electrical Characteristics

Interface	RS232	KB	USB
Supply Voltage	DC +5V $\pm 5\%$		
Output Voltage (Typ.)	$\pm 9V$	+5V $\pm 5\%$	+5V $\pm 5\%$
Output low Voltage (Max.)	-	0.7V	0.7V
Current Draw	$\pm 10\%$		
Power On (Typ.)	53 mA	53 mA	53 mA
Stand by (Typ.)	37 mA	34 mA	36 mA
Operation (Typ.)	107 mA	103 mA	105 mA

D. Performance

Light Source	Visible Red light 639nm LED
Sensor	Linear CCD Sensor
Processor Type	8051 compatible
Operating Freq.	29.4912 MHz
Scan Rate	75 scans/sec $\pm 10\%$
Reading Distance	100mm@20mil/0.5mm, PCS90%
Width of Field	75 mm
Print Contrast Ratio	PCS60%@6mil/0.15mm
Resolution	4mil/0.1mm@PCS90%
Reading Angle	<i>Test Conditions : Code 39, 10mil/0.25mm, PCS 90%</i>
Forward	3°~38°($\pm 5^\circ$)
Left & Right	$\pm 30^\circ(\pm 5^\circ)$
Ambient Light	
Fluorescent lamp	5000 Lux Max.
Direct sun light	3000 Lux Max.



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 Symbolologies

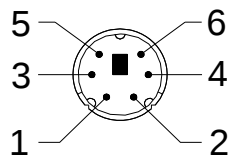
	Readable	Default Enable
All UPC/EAN/JAN	V	V
EAN128 Code	V	V
Code 39	V	V
Code 39 Full ASCII	V	
Code32 / Italian Pharmacy	V	
Code 128	V	V
CODABAR/NW7	V	V
Interleave 25	V	V
Industrial 25	V	
Matrix 25	V	
MSI/PLESSEY	V	
Telepen	V	
Code 93	V	
Code 11	V	
China Postage	V	
GS1 DataBar	V	

G. Pin Assignment

a) Keyboard Interface

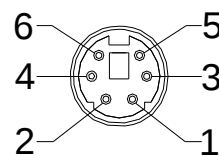
MiniDIN 6 MALE

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



MiniDIN 6 FEMALE

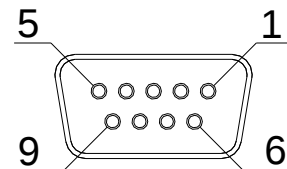
Pin No.	Function
1	KB DATA
3	GND
4	Vcc(+5V)
5	KB CLK



b) RS-232 Interface

DB 9 Female

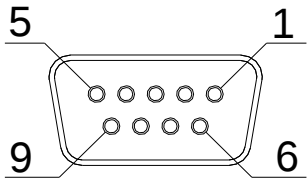
Pin No.	Function
2	TXD
3	RXD
5	GND
7	CTS
8	RTS
9	Vcc/+5V
Power Lead	Vcc/+5V



c) WAND Emulation Interface

DB 9 Female

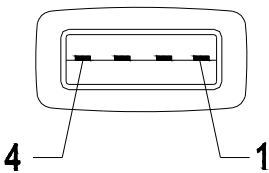
Pin No.	Function
2	DATA
7	GND
9	Vcc



d) USB Interface

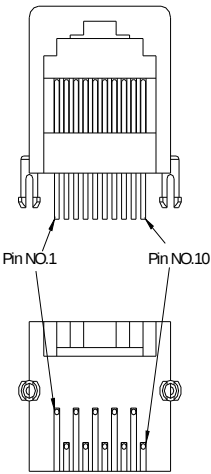
USB A TypeMale

Pin No.	Function
1	Vcc
2	D-
3	D+
4	GND



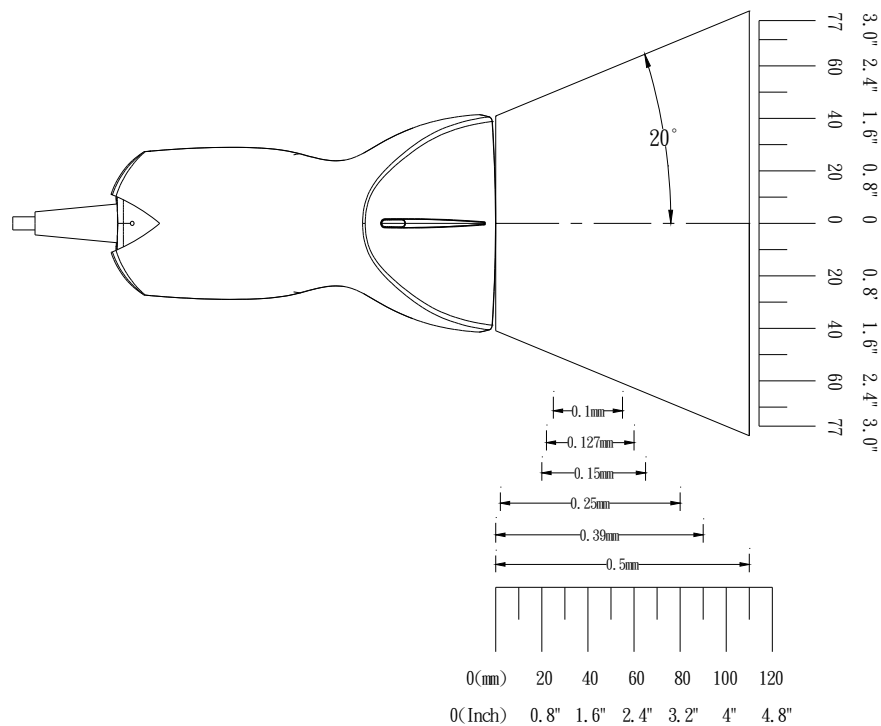
Decoder Data Output

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



H. Scan Map

Unit : mm



I. Reliability

Life Time

Light Source	40,000 hours
Trigger Switch	1,000,000 times
MTBF(Calculated)	80,000 hours

Thermal Shock

High Temp.	70 °C (140 °F)
Low Temp.	-20 °C (-4 °F)
Cycle time	20 minutes for high temp. , 20 minutes for low temp.
Cycles	5 cycles

Cable Bending Test

25,000 times minimum (30 times/min @ 500g/90 °)

Drop

40 inch(100cm) drop on Concrete Surface

J. Packing

Dimension

Unit	23 cm X 12cm X 7 cm
Carton	50 cm X 35 cm X 25 cm

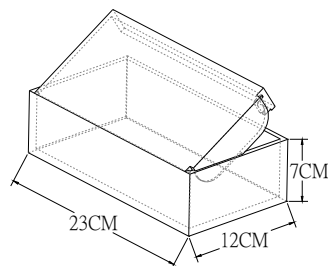
Weight

Unit	342 g
Carton	7.84 Kg (Q'ty :20 pcs)

Storage

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

Unit :



Carton :

