# **SPECIFICATION**

Customer :	
Customer's Model No. :	_
Model No. : <b>SG600BT</b> Wireless Linear Imager Bar Code S	Scanner
Date:	
Sample Serial No. :	
Spec. Version & Revision Date: V01	2018.02.23
Description of the second of t	
Received/Approved by	



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# **Revision History**

Version	Date	Context
V00	2013.07.22	Initial release
V01	2018.02.23	Performance update

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#### A. General Description



**SG600BT** is a general purpose wireless gun-type linear imager bar code scanner which is designed especially for retail, logistic and warehousing management market. We include friendly functions with replaceable multi-interface cable options that makes it more easily to be operated by the customers to accommodate it to user environment.

SG600BT has most modern design with its auto-shuttle-emulation alike smart detection, offers superior decoding performance on a reading speed up to 500 scans per second and up to 500mm reading depth for the majority of 1D bar codes and GS1 DataBar<sup>TM</sup> codes. For hand-free operation application, customers can easily configure by themselves to facilitate it to be hand-free reading. With its built-in automatically turn off reading and switch on reading, as it sense a bar code moving in front of it, can extend its lifespan.

The scanner and cradle with Class1 Bluetooth V2.1 EDR technology with transmission range up to 100m/ 328.08 ft. in line of open sight, supports both SPP and HID profiles can easily pair up with other Bluetooth V2.1 compatible mobile equipments or systems.

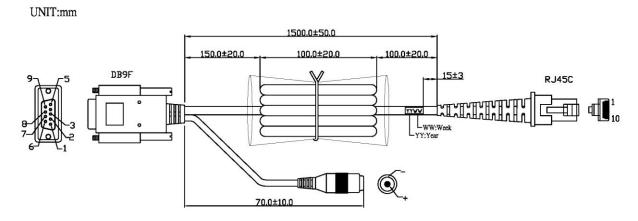
In short, SG600BT is a high performance wireless scanner which provides customers with the most cost-effective solution in the market. It is perfectly suitable and definitely the best choice for any retail and logistic environment.

## **B. Physical Characteristics**

Weight	
Scanner weight	Approx. 175g/ 6.17oz (include Battery)
Cradle weight	Approx. 150g/ 5.29oz
RS232 Cable weight	Approx. 100g/ 3.53oz
USB Cable weight	Approx. 70g/ 2.47oz
PS/2 Cable weight	Approx. 77g/ 2.71oz
AC adaptor weight	Approx 109g/ 3.84oz
Dimension	Scanner: 71.13 mm W x 62.61mm H x 169.27 mm L
	Cradle: 112.18 mm W x 84.64 mm H x 130.6 mm L
Color Available	Black(Cap & Grip ) / Dark Gray(Cap) and Beige (Grip)

## Cradle interface cable drawing

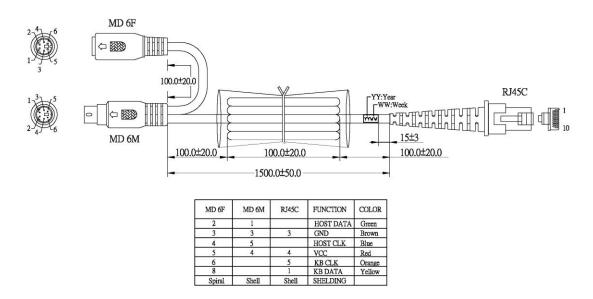
## (a) RS232 Interface:



DB9F	RJ45C	DC JACK	FUNCTION	COLOR
5	3	Shell	GND	Brown
9	5	CORE	DC +5V	Red
2	7		TXD	Orange
3	9		RXD	Yellow
8	1		RTS	Green
7	10		CTS	Blue
Shell			Spiral	

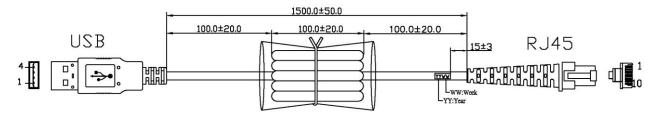
## (b) PS/2 Keyboard interface

UNIT:mm



#### (c) USB interface

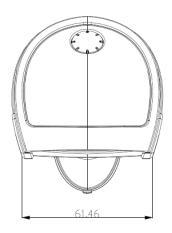
UNIT:mm

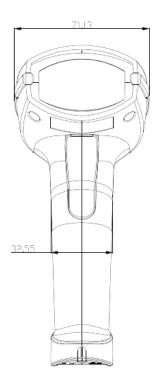


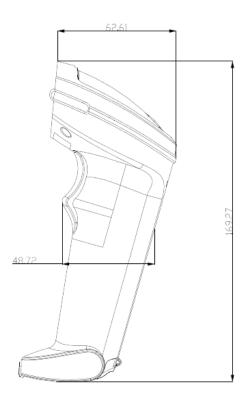
USB	RJ45	FUNCTION	COLOR
1	5	VCC	Red
2	4	D-	Blue
3	2	D+	Green
4	3	GND	Brown
Shell	3	SHIELDING	

## **Mechanical drawing**

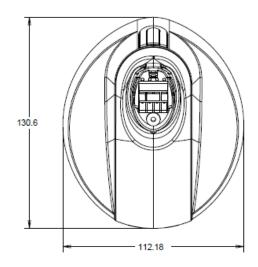
# (a) Scanner Dimension:

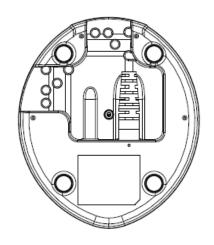


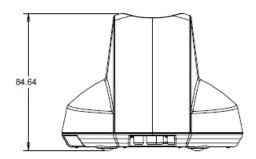


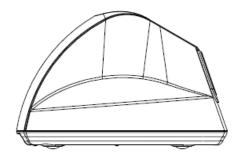


## (b) Cradle Dimension:









## C. Performance

Light Source	Visible Red Light 632 nm LED
Sensor	Linear CCD Sensor
Processor Type	32-bit
Operating Freq.	8 MHz
Scan Speed	Smart detection, up to maximum 500 scans per second
Reading Distance	Up to 500mm@20mil, PCS90%, Code39
Print Contrast Ratio	25%
Resolution	4mil/0.1mm@PCS90%, Code39
Reading Angle	Test Conditions : Code 39, 10mil/0.25mm, PCS 90%
Forward & Backward(Pitch)	±10°~65°(±5°)
Left & Right(Skew)	± 60°(±5°)
Ambient Light	100,000 Lux Max.
Indicator	Beep and LED (Good read Green)

## **D. Electrical Characteristics**

Scanner Supply Voltage	Battery Li-Ion 3.7V / 2600mAh
Scanner Power Consumption	
Power On	190mA
Stand by	50mA
Operation	200mA
Sleep	6mA
Recharge time	Approx. 5 hours
Reads per charge	50,000 times in continuous read
Cradle Power Consumption	
Power On	95mA

55mA

70mA

## E. Radio Characteristics

Stand by

Operation

Bluetooth Module	Bluetooth V2.1 Standard,
	Supports both SPP and HID profiles
Frequency Band	2.402GHz ~ 2.480GHz
Modulation Method	GFSK for 1Mbps
RF Output Power	Class 1 (under 20dBm)
Radio Transmission Range	Up to 100m /328.08 ft. in line of open sight

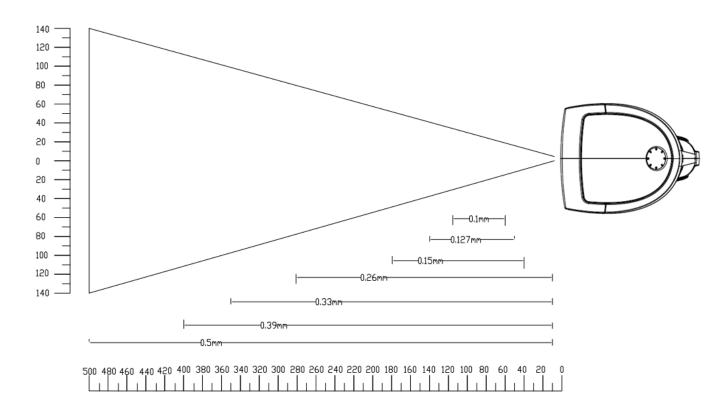
## F. Environmental

Operating Temperature	0 oC to 50 oC (32 oF to 122 oF)
Storage Temperature	-20 °C to 60 °C (-4 °F to 140 °F)
Relative Humidity	20% to 95% (Non-condensing)

# G. 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	

## H. Scan Map



# I. Reliability

Life Time	
Trigger Switch	1,000,000 times
MTBF(Calculated)	40,000 hours
Thermal Shock	
High Temp.	50 °C (122 °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 Resistance	59.05 inches (150cm) drop on Concrete Surface