



**Lector de código de barras de mano inalámbrico  
laser (NS-300RF)**



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## **A. General Description**

This wireless hand-held long-range CCD scanner features a freedom of scanning without the limitation of cable. Thanks to the user-friendly two-ways communication, the operator will be alarmed if the scanning result was not reached the receiving cradle. With the most advanced narrow-band RF technology, this scanner can operated at 15 Meters range(Open space) and features one cradle supports multiple scanners ability (Maximum 8 scanners). The received cradle include RF receive module and Batteries charger.

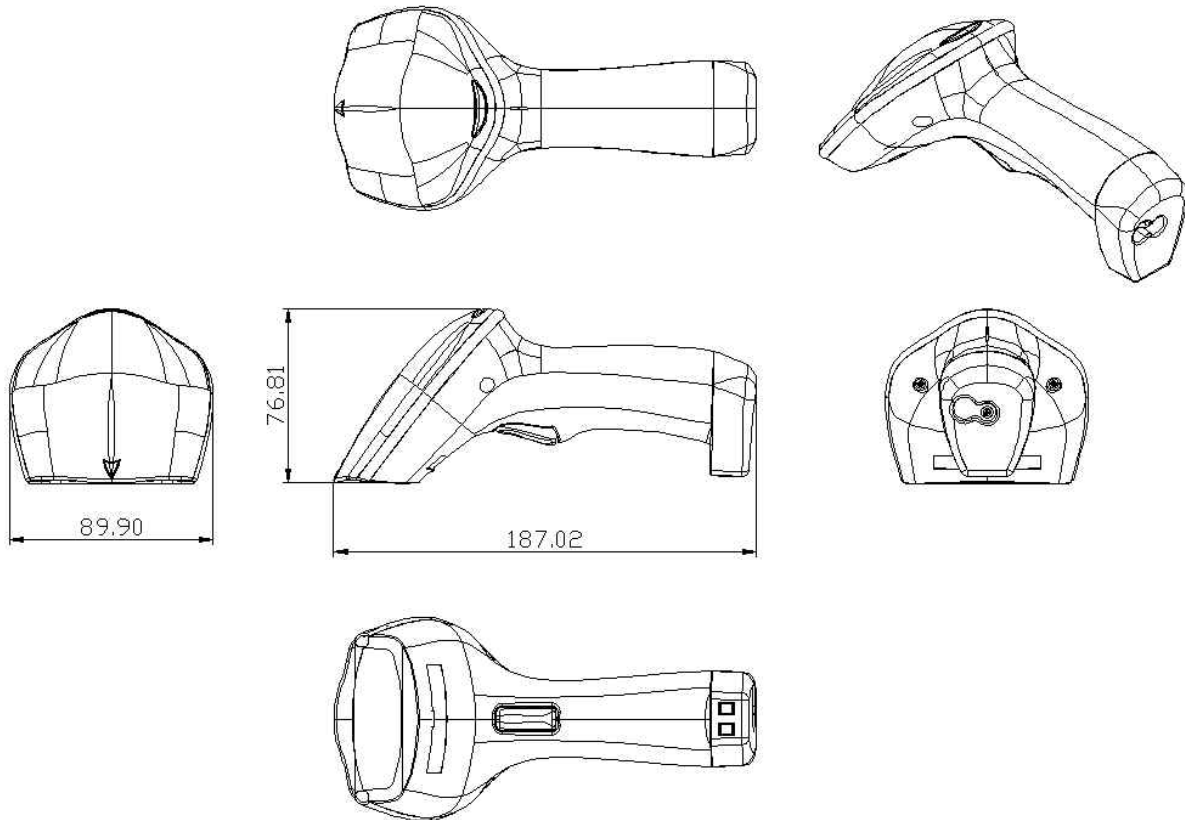
This scanner package comes with scanners (one or more, max to 8 scanners), receiver, power supply and other accessory. NS300RF is suitable for any location where needs a scanning from a long distance and it will be the best choice for wireless scanner.

NS300RF is normally available with one of three option interface - either "Keyboard Wedge", or "RS232 serial", or "USB". Which interface you choose will depend mostly on the software that you will be scanning the barcodes into an how you want everything to work as well as the types of ports available on your PC.

## B. Physical Characteristics

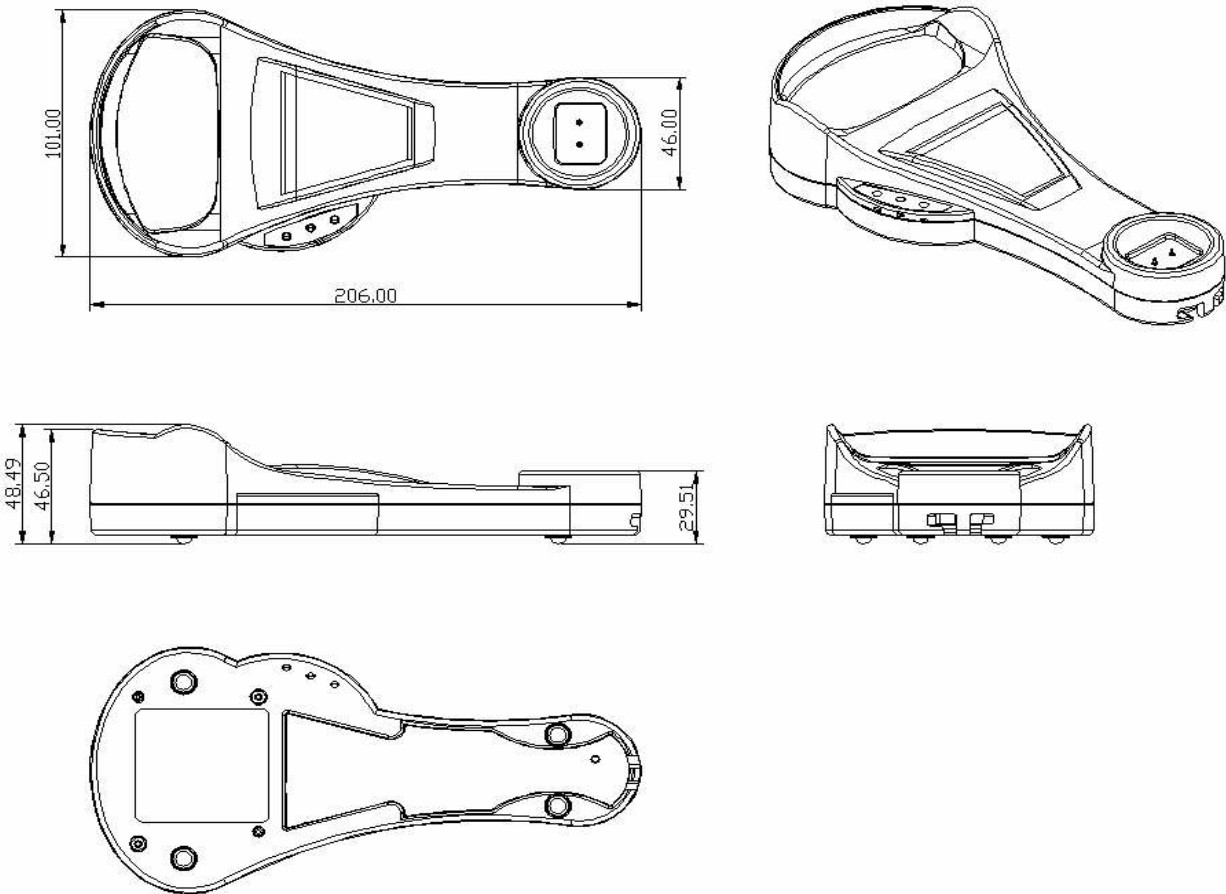
Material	ABS
Receiver Cable Length	5FT. ( 150cm )
Dimension	
Scanner	188 mm X 90 mm X 77 mm
Receiver	206 mm X 101 mm X 49 mm

### a) Mechanical drawing



-X

**b) Receiver**



**C. Indicator Status**

Operating status of LED & Sound indicator is shown as below.

**a) Scanner Light & Sound**

Operating status of LED and Sound indicator is shown as below.			
	Light	SIGNAL	STATUS
<b>a) Scanner</b>	Green	1 Blink and 1 beep	Good Read
		2 Blink and 2 beeps	Good Read But Transmit Fail
		4 Blink 2 times and 4 beeps 2 times	Battery Need To Charge
	Red	Continuous on	In Charging
		Off	Charging Finished
	Light	SIGNAL	STATUS
<b>b) Receiver</b>	Green	1 Successful Transmission Follow with 1 Blink	Good Transmission
	Red	Continuous on	Power on
	Yellow	1 Failed Transmission Follow with 1 Blink	Failed Transmission

**b) Receiver Light**

Light	SIGNAL	STATUS
Green	1 Successful Transmission Follow with 1 Blink	Good Transmission
Red	Continuous on	Power on
Yellow	1 Failed Transmission Follow with 1 Blink	Failed Transmission

**D. Electrical Characteristics**

**a)Scanner**

Supply Voltage	DC +3.7V ±5%
Battery Type	Li-ion battery (1100mAh)
Recharge Time	5Hours
Operating	30,000 times scan at continuous mode
<b>Current Draw</b>	
Power On (Typ.)	180mA
Stand by (Typ.)	0.1mA
Operation (Typ.)	180mA

**b)Receiver**

Supply Voltage	DC +5V ±5%
<b>Current Draw</b>	
Power On (Typ.)	60mA
Stand by (Typ.)	60mA
Operation (Typ.)	60mA
Charging	Max 500mA

## E. Performance

### a) Scanner Characteristics

Light Source	Visible Red light 632nm LED
Sensor	Linear CCD Sensor
Processor Type	8051 compatible
Operating Freq.	36.864 MHz
Scan Rate	270 scans/sec $\pm 10\%$
Reading Distance	270mm@20mil/0.5mm, PCS90%
Width of Field	80 mm
Print Contrast Ratio	PCS45%@4mil/0.1mm
Resolution	4mil/0.1mm@PCS90%
Ambient Light	100,000 Lux Max.
Reading Angle	<i>Test Conditions: Code 39, 10mil/0.25mm, PCS90%</i>
Forward & Backward	$\pm 70$ Degree ( $\pm 5^\circ$ )
Left & Right	$\pm 60$ Degree ( $\pm 5^\circ$ )

### b) Radio Characteristics

Frequency Baud	426MHZ ~442MHZ /1MHZ step
Frequency Stability	$\pm 30$ KHZ @ -20 °C ~+85 °C
Modulation Method	FSK (Frequency Shift Keying)
Working BandWidth	Below 250KHz
Data Rate	19.2Kbps
Stray Power	-50dBm
Emission Power	3.5 $\pm$ 1dBm
Receiving Sensitivity	$\square$ -90dBm
Radio Range	15m $\pm 20\%$ for Open Air (Guarantee 10m)

## F. Environmental

Operating Temperature	-10 °C to 50 °C (32 °F to 122 °F)
Storage Temperature	-20 $\square$ to 70 $\square$ (-4 $\square$ to 158 $\square$ )
Relative Humidity	20% to 95% (Non-condensing)

## G. Readable Symbologies

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

## H. Reliability

<b>Life Time</b>	
Light Source	40,000 hours
Trigger Switch	1,000,000 times
MTBF(Calculated)	80,000 hours
<b>Thermal Shock</b>	
High Temp.	50 °C (122 °F)
Low Temp.	-20 °C (-4°F)
Cycle time	7 minutes for high temp. , 7 minutes for low temp.
Cycles	24 cycles
<b>Drop</b>	<b>40inch (100 cm) drops on Concrete Surface</b>
Battery charge time	500 times

## I. Packing

### Dimension

Unit 27.5 cm X 11.5 cm X 14 cm

Carton 55.5 cm X 49 cm X 30 cm

### Weight

Scanner with battery 210.4g

Cradle 104.4g

Unit N.W. 654g (USB)

Unit G.W. 766.4g (USB)

Shipment G.W. 13.26Kg ( Q'ty :16 pcs 1 to 1) (USB)

### Storage

Temperature -20 °C to 70 °C (-4 °F to 158 °F)

Humidity 20% to 95% (Non-condensing)