433/Bluetooth Wireless Barcode Scanner

User 's manual

BROCHURE

Notices

1. Please read the user manual carefully before using this product.
2. The working voltage of this barcode scanner is 3.3V, charging voltage 5V. Please use our original USB cable to ensure the scanner work properly.
3. Copyright and Patent Right

Our company has applied for patent rights, copyrights and software copyrights for this product and its accessories(including hardware, setting software, documentations,appearance,etc.)

4. OThe company reserves all rights and the company reserves the right to make any changes to the product to improve its reliability, improve its function or design. The company shall not be responsible for any product liability related to or arising from the application or use of any products, circuits, or other applications described herein.
5. Package Includes:

Standard Package: : Barcode scanner (1 piece),
Charging Cradle (1 piece)
User manual (1 piece).

6. The contents of this manual are subject to change without prior notice.

Contents

Introduction

Our company's barcode scanner series are with strong scanning light source and enhanced long distance scanning technology, making it possible for long distance fast scanning capability for damage, dirty and poor quality printed barcodes under various ambient light conditions.
It is durable in use, since it is protected by the industrial safty technique.High volume buzzer is another hint of success scanning besides LED light.

Features

Wired ， wireless and bluetooth triple-mode freely switching.

Large capacity storage, safe and reliable.

Stores barcodes more than 50000pcs off-line scanning.

Unique power management system, ultra-long standby time.

Rich symbologies supported Adopting imported trigger button, long lifespan, fitting perfectly in your hand for comfortable use.

Support Android/IOS devices/Windwos Support HID、SPP、BLE protocol.

Mini size, fashion design,and portable.

Ultra low power consumption and standby time setup available.

433 transmission distance: outdoor: up to 1200 meters (visual distance)
Indoor: 100~800 meters (depending on the influence of indoor environment)
Through walls: up to 10 ordinary walls can be penetrated

Bluetooth transmission distance: indoor transmission distance up to 15 meters.

Support upload data and charge the battery via USB cable at the same time.

Application

* Applicable to Business (electrical, book, clothing, medicine, cosmetics, etc.), retail industry, postal service, telecommunications industry,warehousing, logistics industry, public security system, customs systems,banking system, medical system.
* Compatible with Microsoft, Android, Linux and other operating systems.
* Multi-national keyboard language

Parameters

Wireless protocol：bluetooth 433
Memory: 16Mb
Processor: ARM Cortex 32bits
Bluetooth version: Bluetooth 5.0 Module
Supported symbologies: 1D: Codabar,Code 11,
Code93,MSI,Code 128,UCC/EAN-128,Code 39,EAN-8,
EAN-13,UPC-A,ISBN,Industrial 25,Interleaved 25,
Standard 25,2/5 Matrix,
2D:QR,DataMatrix,PDF417,Aztec,Hanxin ,
Micro PDF417(option)
Indicator: Led、Buzzer、Vibrator(option)
Battery capacity：1800mA
Charging voltage/current: 5V/1A
Endurance：1D≤24H 2D≤16H（5seconds/scan）
Charge time：≤4hours
Standby: >30days

Working Environment

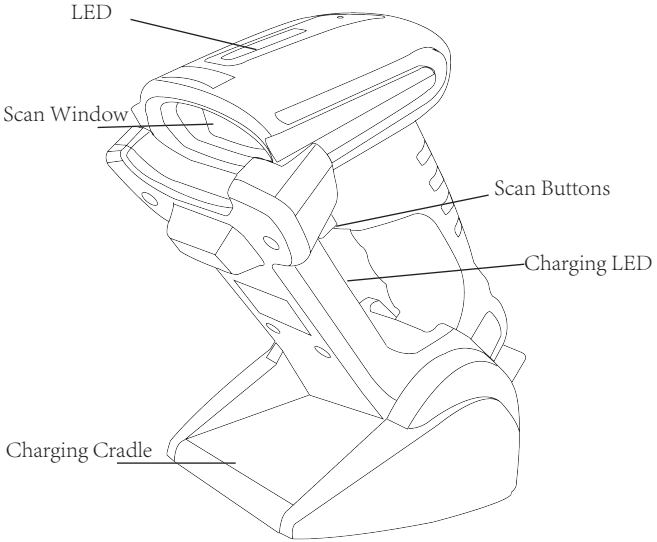
Working Temperature: 32° F to 104° F/0° C to 40° C
Storage Temperature: -40° F to 140° F/-40° C to 60° C
Humidity: 5% to 95% relative humidity (no condensation)
Ruggedness: Resist about 6 times drops from 1.5m to concrete ground
Ambient Light Immunity: Under normal office and factory ambient lighting conditions, or exposed to the sun won't take any effect to it.

Electrostatic discharge: In line with 15KV air discharge and 8KV contact discharge requirements

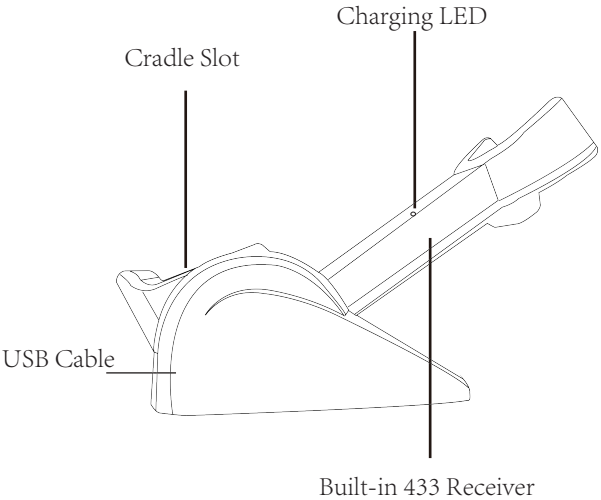
Related Regulations

Electrical safety: In accordance with UL1950、CSA C22.2 No.950、EN60950/IEC950 EMI/RFI:FCC Part 15 Class B、European Union EMC Directive、Taiwan EMC、
Environment Terms: In accordance with RoHS directive 2002/95/EEC

Outside Introduction



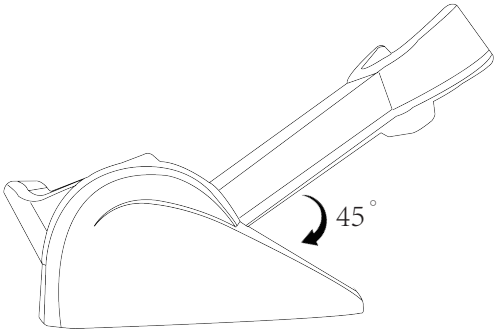
Wireless Charging Cradle

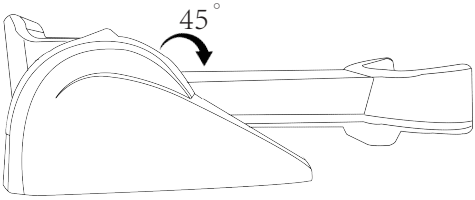


Pairing Status	Indicator Light
Pairing Successfully	Green Light ON
Scanning Barcode	Green Light Flash Once
Pairing Failed	Green Light Flash
On Charging	Red Light Flash
On Full Power	Red Light ON

Placing scanner on the base,then pressing scan button twice quickly,scanner and base get connected automatically

Wireless Charging Cradle

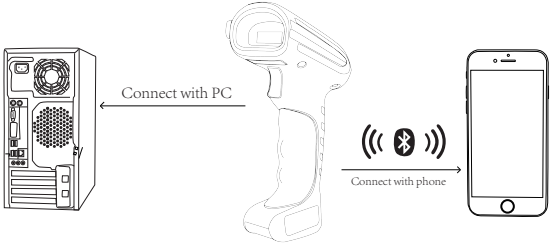


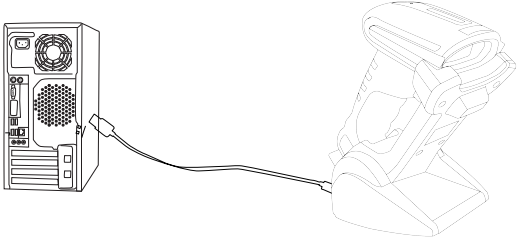


Connections Introductions

A：When using 433 feature,you can match desktop PCs or PC terminals that do not support Bluetooth.Scanner supports systems such as XP, Win7, Win8, Win10,etc.
(Please refer to page 13th for specific pairing steps)

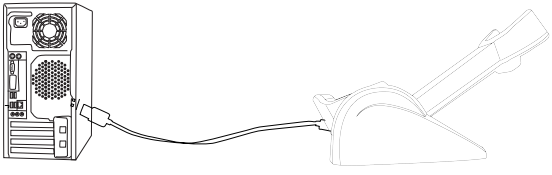
B：When using Bluetooth, you can match Android, IOS mobile phones, or PC terminals with bluetooth capabilities.(Please refer to page 11th for specific pairing steps)





Using scanner with base

C:Charge the base: Connect base with PC via USB cable, the base will work as a charger.When turn off the scanner and put it on the base, the base can charge the scanner.(Bluetooth and 433 mode available)



Initialization Settings&Version Information

If the scanner has problems by scanning some programming codes and can not be used any more, pls scan Initialization Settings.

Initialization Settings

Version Information

BluetoothPairing Method

A: Pressing the trigger for 8 seconds or scanning following se tting code to to enter bluetooth searching mode. 2 bluetooth LEDs flashing.

Bluetooth Pairing Setup Code

B: Turn on the bluetooth of your device and Click BarcodeScannerHID when Searching. When you hear a beep sound, it means connected!

Notes： When the scanner is entered bluetooth pairing status and it does not get connected with your device within 1minutes,it will beep twice lowly and longly.You need to repeat above-mentioned 3 steps to make it connect with you device.(When the scanner is in the bluetooth pairing status, double-click can make it exit the pairing mode).

Pull up/Hide keyboard(IOS system)&Caps Lock Switch

Pull up/Hide IOS keyboard

Double-Click to Pull up IOS keyboard

Double-Click to Hide IOS keyboard

Caps Lock Switch

All Lowercase

All Uppercase

Do not convert case

Case Interchange

433 Wireless Pairing Method:

1st:Scanning following setting code

2nd:Scanning following setting code,scanner bluetooth LED flashing

3rd: Connect wireless charging cradle with PC via USB cable.
When you hear One beep ,that means connected!

Notes： When the scanner is entered 433 pairing status and it does not get connected with your device within 1 minutes,it will beep twice lowly and longly.You need to repeat above-mentioned 3 steps to make it connect with you device.(When the scanner is in the 433 pairing status, double-click can make it exit the pairing mode).

Sound/Vibration Setting

Sound OFF

Sound ON

Vibration OFF(optional)

Vibration ON(optional)

Sleep Time Setting

1 min

5 min

10 min

30 min

Never Sleep

Sleep Immediately

Ending Character Setting

Add CR(Carriage Return)

Add LF(Linefeed)

Add CR+LF

Cancel CR+LF

Add TAB

Keyboard Language Setting


English(USA)


German


French


Spanish


Italian


Janpanese


International Universal Keyboard


Belgian


Portuguese


English(UK)


Portuguese(Brazil)


French(Switzerland)

Russian

Czech

French(Canada)

Hungarian

Polish

Sweden / Finland

Spanish(Mexico)

Argentine(Latin America)

Norwegian

German(Swizerland)

Transmission Speed Setting

Choosing the transmission speed according to the receiving speed of the device

Fast

Middle

Slow

Super Slow

Bluetooth Protocal

Bluetooth HID

Bluetooth SPP

Bluetooth BLE

Notes: Scanning any one of above 3 setting codes can make the scanner enter bluetooth pairing status.

Working Modes

Under "Normal Mode",the data of the code you scanned will be transferred to your device via bluetooth,433 or USB.A short and low beep show the data is transferred successfully.If not,the scanner will beep 3 times shortly and lowly. Under "Normal Mode",if scans failure,the data you just scanned will lost.

Normal Mode

Under "Storage Mode",the data of the code you just scanned will be stored in the scanner.And scanner beep once shortly and slowly after each scanning. Scanner will beep 3 times after scanning a code if its storage space is full.

Storage Mode

You can check the storage data amount by scanning following setting code

Storage Data Amount

Scanning following setting code to upload the data you have scanned to your device via bluetooth,433 wireless or USB.

Notes: Making sure that scanner is got connected with your device.
After uploading data,the data which have been stored in the scanner will not be deleted from the scanner

Upload Data

Scanning following setting code to clear all the data which is stored in the scanner.All data will be deleted after scanning setting code" Clear Data", so please confrim that you have uploaded those data to your device if you need them.

Clear Data

Entering No Loss Mode

Note: The no loss mode can ensure no loss under 2.4G and virtual Bluetooth, Bluetooth HID/SPP/BLE is not recommended to use the no loss mode as the receiving end is not controlled.

Change Bluetooth Name

1st：Scanning following setting code”Change BT Name”

Change BT Name

2nd：Scanning a customized codes which its data is the name you want. You can generate a customized code via barcode generator,like label shop. Or you also can contact with us to generate a code for you.
For example：Folowing barcode’s data is “Scanner123”,after you scanned it,the bluetooth name of your scanner will be changed to “Scanner123”.

Scanner123

3rd：Scanning following setting code to set the name as default.

Save Setting

Hide Pre-characters/Post-characters

1st：Scanning following setting code “Hide Pre-characters” or “Hide Post-characters”

Hide Pre-characters

Hide Post-characters

2nd：Choosing how many characters you need to hide.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

Notes：If you need to cancel hiding characters setting,you can scan following setting code

Cancel Hiding Pre-characters

Cancel Hiding Post-characters

Add Time As Prefix or Suffix（optional）

A.Scanning setting code “Add Time as Prefix”,then there is scanning time in front of barcode data.

Add Time as Prefix

B.Scanning setting code “Add Time as Suffix”，then there is scanning time behind barcode data.

Add Time as Suffix

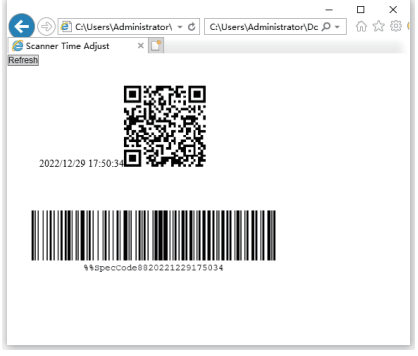
C.If you do not need scanning time as prefix or suffix,you can scan following setting code “Cancel Setting”.

Cancel Setting

Update Time

1. Run the Web as below:

2. Scan Below codes to Calibrate Time of Scanner.



Notes: "Scanner Time Setting Offline Web Version" program can be downloaded in website:
https://symcode.cn/public/upload/Scanner%20Time%20Setting%20Offline%20Web%20Version.rar

or scan QR-code below

Prefix/Suffix Setting

The setting prefix and suffix is divided into two parts,displayable characters and controlled characters

1st Part：Displayable characters

Step1：Scanning following setting code“Add Prefix”or“Add Suffix”

Add Prefix

Add Suffix

Step2：Finding the character which you need to add as prefix or suffix in appendix B,and scanning the barcode corresponding to the character.

2nd Part：Controlled Characters

Step1：Finding the character which you need to add as prefix or suffix in appendix A,and scanning the barcode corresponding to the character set.

Character Set 0

Character Set 1

Character Set 2

Character Set 3

Character Set 4

Step2：Scanning following setting code“Add Prefix”or“Add Suffix”

Add Prefix

Add Suffix

Step3：Finding the character which you need to add as prefix or suffix in appendix A,and scanning the barcode corresponding to the character.

Notes：Scanning following setting code if you need to cancel prefix and suffix setting

Cancel Prefix Setting

Cancel Suffix Setting

433 Wireless COM-Port Mode Setting

Step1：Scanning setting code “COM-Port Mode”

COM-Port Mode

Step2：Scanning setting code “Enter Pairing Mode”

Enter Pairing Mode

Step3：Insert the 433 wireless receiver into USB port in your device.One beep show that scanner and receiver connected.And it will generate a COM port in your device.

Notes：When the scanner is entered 433 COM-Port Mode pairing status and it does not get connected with your device within 1 minutes,it will beep twice lowlyand longly.You need to repeat above-mentioned 3 steps to make it connectwith you device.(When the scanner is in the 433 COM-Port pairing status,double-click can make it exit the pairing mode).

Enable/Disable HID Searching by Pressing Scan Button 8S Settings

Enable

Disable

Scanning Modes

1.Trigger Mode

Trigger Mode

2.Continuous Mode

Continuous Mode

Time Interval:

250MS

500MS

750MS

1S

AppendixA:Controlled Characters

Decimal	ASCII	Character Set 0	Character Set 1	Character Set 2	Character Set 3	Character Set 4	Setting Code
1	SOH	NULL	Home	Ctrl+A	Alt+001	CR	
2	STX	Ctrl+B	End	Ctrl+B	Alt+002	Cap Lock	
3	ETX	Ctrl+C	Up Arrow	Ctrl+C	Alt+003	Right Arrow	
4	EOT	NULL	Down Arrow	Ctrl+D	Alt+004	Up Arrow	
5	ENQ	NULL	Left Arrow	Ctrl+E	Alt+005	NULL	
6	ACK	NULL	Right Arrow	Ctrl+F	Alt+006	NULL	
7	BEL	NULL	Shift+Tab	Ctrl+G	Alt+007	Enter	
8	BS	Back Space	Back Space	Back Space	Alt+008	Left Arrow	
9	HT	Tab	Tab	Tab	Alt+009	Tab	
10	LF	Enter	Enter	Ctrl+P	Alt+010	Down Arrow	
11	VT	NULL	NULL	Ctrl+Q	Alt+011	Tab	
12	FF	NULL	NULL	Ctrl+R	Alt+012	delete	
13	CR	Enter	Enter	Enter	Alt+013	Enter	 %%0D

Decimal	ASCII	Character Set 0	Character Set 1	Character Set 2	Character Set 3	Character Set 4	Setting Code
14	S0	F1	Page Up	Ctrl+N	Alt+014	Insert	
15	S1	F2	Page Down	Ctrl+O	Alt+015	Esc	
16	DLE	F3	F11	Ctrl+P	Alt+016	F11	
17	DC1	F4	NULL	Ctrl+Q	Alt+017	Home	
18	DC2	F5	NULL	Ctrl+R	Alt+018	Print Screen	
19	DC3	F6	NULL	Ctrl+S	Alt+019	Back Space	
20	DC4	F7	NULL	Ctrl+T	Alt+020	Shift tab	
21	NAK	F8	F12	Ctrl+U	Alt+021	F12	
22	SYN	F9	F1	Ctrl+V	Alt+022	F1	
23	TB	F10	F2	Ctrl+W	Alt+023	F2	
24	CAN	F11	F3	Ctrl+X	Alt+024	F3	
25	EM	F12	F4	Ctrl+Y	Alt+025	F4	
26	SUB	NULL	F5	Ctrl+Z	Alt+026	F5	
27	Esc	Esc	F6	Ctrl+[	Alt+027	F6	

Decimal	ASCII	Character Set 0	Character Set 1	Character Set 2	Character Set 3	Character Set 4	Setting Code
28	FS	ALT+028	F7	Ctrl+\	Alt+028	F7	
29	GS	ALT+029	F8	Ctrl+]	Alt+029	F8	
30	RS	NULL	F9	Ctrl+^	Alt+030	F9	
31	US	NULL	F10	Ctrl+_	Alt+031	F10	

AppendixB:Displayable Characters

Decimal	ASCII	Setting Code
32	空格	
33	!	
34	"	
35	#	
36	$	
37	%	
38	&	
39	'	
40	(	
41	)	
42	*	
43	+	
44	,	

Decimal	ASCII	Setting Code
45	-	
46	.	
47	/	
48	0	
49	1	
50	2	
51	3	
52	4	
53	5	
54	6	
55	7	
56	8	
57	9	

Decimal	ASCII	Setting Code
58	:	
59	;	
60	<	
61	=	
62	>	
63	?	
64	@	
65	A	
66	B	
67	C	
68	D	
69	E	
70	F	
71	G	

Decimal	ASCII	Setting Code
72	H	
73	I	
74	J	
75	K	
76	L	
77	M	
78	N	
79	O	
80	P	
81	Q	
82	R	
83	S	
84	T	
85	U	

Decimal	ASCII	Setting Code
86	V	
87	W	
88	X	
89	Y	
90	Z	
91	[	
92	\	
93	]	
94	^	
95	_	
96	‘	
97	a	
98	b	
99	c	

Decimal	ASCII	Setting Code
100	d	
101	e	
102	f	
103	g	
104	h	
105	i	
106	j	
107	k	
108	l	
109	m	
110	n	
111	o	
112	p	
113	q	

Decimal	ASCII	Setting Code
114	r	
115	s	
116	t	
117	u	
118	v	
119	w	
120	x	
121	y	
122	z	
123	{	
124	|	
125	}	
126	~	
127	DEL	

Decimal	ASCII	Setting Code
199	Ç	
231	ç	

FAQ (Frequently Asked Questions)

▶ What should I do if the scanner can not pair with my bluetooth device?

A.Making sure the scanner is in the pairing state under the required Bluetooth protocol

B.If the devices has connected successfully with other barcode scanner via bluetooth,or other devices.Please delete the bluetooth connection record before connecting

C.The wireless module has been damaged

▶ Why can not the scanner read some codes?

A.The scan engine does not support that code type or disabled defaultly You can contact with us to enable it.

▶ Why can not the scanner transfer data to my device when they are connected?

A.Please confirm if the scanner is under "Storage Mode",you need to turn it to "Normal Mode" or scanning setting code "Upload Data" to transfer data to your device.

B.The wireless module may has been damaged.

▶ Why does the data which show in my device is not the same as code?

A.Please confirm that if the keyboard language of the scanner is the same as your devices'.

▶ Why can not the scanner charge?

A.Please choose the correct charge head and charge cable.

B.Charging circuit or battery may has been damaged.

▶ How to make more settings?

Please contact with us for more settings.

Buzzer description

Buzzcr Proformancc	Introduction
one/long beep low to high frequency	power on
one/long beep high to low frequency	power off
one/short beep low frequency	read a code under normal mode
one/short beep low to high frequency	read a code under storage mode
one/short beep high to low frequency	read a setting mode
three/short beeps low frequency	transfer failure or storage space is full

LED Light Introduction

LED Light Proformance	Introduction
Blue lights and green light flash alternately	Enter hid pairing mode
Blue lights and green light flash simultaneously	Enter ble pairing mode
Blue lights flashes alone	Enter spp pairing mode
Red light on	Charging red light off affter charging
Red light flashes	No battery detected while charging
Green light on but off immediately	Read a code successfully

FCC Warning Statement

Changes or modifications not expressly approved by the party responsible for compliance could void the user' s authority to operate the equipment. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception,which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- - Reorient or relocate the receiving antenna.
- - Increase the separation between the equipment and receiver.
- - Connect the equipment into an outlet on acircuit different from that to which the receiver is connected.
- - Consult the dealer or an experienced radio/TV technician for help.

FCC Radiation Exposure Statement

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

IC Warning

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:
(1) this device may not cause interference, and
(2) this device must accept any interference, including interference that may cause undesired operation of the device.
Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.
This device complies with Canadian ICES-003 and RSS-247.
ISED Canada Statement:
This device complies with RSS Gen of the Canada Rules. Operation is subject to the following two conditions:
1)this device may not cause interference and
2)this device must accept any interference, including interference that may cause undesired operation of the device. Radiation Exposure: This equipment complies with Canada radiation exposure limits set forth for an uncontrolled environment.
IC Radiation Exposure Statement
The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

Avertissement IC

Cet appareil est conforme aux normes RSS sans licence d'Industrie Canada. L'opération est soumise aux deux conditions suivantes:
(1) cet appareil ne doit pas causer d' interférences, et
(2) cet appareil doit accepter toute interférence, y compris celle susceptible de provoquer un fonctionnement indésirable de l'appareil. dispositif.
Selon la réglementation d ' Industrie Canada, cet émetteur radio ne peut fonctionner qu ' en utilisant une antenne type et gain maximum (ou inférieur) approuvés pour Industrie Canada par l'émetteur. Réduire brouillage radioélectrique potentiel avec d' autres utilisateurs, le type d' antenne et son gain doivent être choisis que la puissance isotrope rayonnée équivalente (e.i.r.p.) n' est pas supérieure à celle nécessaire pour communication réussie.
Cet appareil est conforme aux normes canadiennes ICES-003 et RSS-247. Déclaration d'ISED Canada:
Cet appareil est conforme aux règles RSS Gén du Canada.
Le fonctionnement est soumis aux deux suivants conditions:
1)cet appareil ne doit pas causer d'interférences et
2)cet appareil doit accepter toutes les interférences, y compris celles pouvant causer des effets indésirables fonctionnement de l'appareil. Exposition aux radiations: Cet équipement est conforme à la réglementation canadienne sur les radiations. limites d'exposition établies pour un environnement non contrôlé.
Déclaration d'exposition aux radiations IC
L'appareil a été évalué pour répondre aux exigences générales d'exposition aux RF. L'appareil peut être utilisé sans restriction dans des conditions d'exposition portables.

Battery Display