Master Specification				
Data Collector with Bluetooth				
Model No.	OPN-2002n	OPN-2002n		
Manufacturing Specification No.	XF1OPN2002	DOC_ID	SS12xxx	
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Approved by			

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<u>OPN-2002n</u> <u>DOC ID:SS1200</u>

3

# Revision History

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Edition	Date	Section	Description of Changes
1 <sup>st</sup>	2012-8-1	-	(Initial Issue)



Index	page						
1. ABSTRACT	1						
2. OVERVIEW							
3. BASIC SPECIFICATION							
4. DETAILED VIEW	4						
5. ELECTRICAL SPECIFICATIONS							
5.1. USB							
5.2. Charging Cradle							
6. INTERFACE							
6.1. USB	5						
6.1.1. Connector	5						
6.1.2. USB Interface Circuit							
6.2. Bluetooth							
6.3. Serial Interface							
6.3.1. Connector							
7. OPTICAL SPECIFICATIONS							
7.1. Laser Scanning Specification							
7.2.1. Laser Scanning Tilt							
7.2.2. Scanning Curvature							
8. TECHNICAL SPECIFICATIONS							
8.1. Print Contrast Signal	8						
8.2. Depth of Field and Resolution							
8.3. Pitch, Skew, and Tilt	9						
8.4. Curvature							
9. ENVIRONMENTAL SPECIFICATIONS							
9.1. Temperature							
9.2. Humidity							
9.3. Ambient Light Immunity							
9.5. Vibration Strength(without packing)							
9.6. Vibration Strength (in individual packing)							
Drop Impact Strength							
9.7. Drop Impact Strength	13						
9.8. Electrical Specifications							
10. REGULATORY COMPLIANCE	14						
10.1. Laser Safety							
10.2. Product Safety							
10.3. EMC							
10.4. Other							
12. MTBF							
13. PRECAUTIONS							
13.1. Precaution against Laser Light	15						



Handling	15
Radio Low	16
Export Administration Regulations	16
Bluetooth	16
Frequency Band	16
DUCT LABEL	
KAGING SPECIFICATIONS	. 19
Individual Packaging Specification	19
RANTY	
Warranty period	21
Maintenance Period	
Other	21
SICAL FEATURES	. 21
Dimensions	21
Weight	21
Mechanical Drawing	22
PORTED SYMBOLOGIES	
1D symbologies	23
	Radio Low  Export Administration Regulations.  Bluetooth Frequency Band  DUCT LABEL.  KAGING SPECIFICATIONS  Individual Packaging Specification  Collective Packaging Specification  RANTY  Warranty period  Delivery  Repair Timeframe  Maintenance Period  Other  SICAL FEATURES  Dimensions  Weight  Mechanical Drawing  PORTED SYMBOLOGIES



### 1. Abstract

This manual provides specifications for the OPN-2002n Laser Barcode Scanner.

### 2. Overview

The OPN-2002n scanner enables data transmission of barcode using Bluetooth wireless thechnology.

- The OPN-2002n is handy and simple data collector.

  Data transmission is performed via a USB or Bluetooth.
- The OPN-2002n has SPP and HID profiles.
- Power supply is 3.7V, 230mAh(typ.) and Lithium-ion polymer battery is used.
- The power supply charging is done via a USB interface or charging cradle.

# 3. Basic Specification

	Item			Spedification		Note
	CPU		32bit CISC/96MHz			
Co Se	FROM		512Kbyte + 32KE			
Control Section	SRAM		96Kbyte	,		
n <u>~</u>	FROM(スト	レージ)	1Mbyte			For user data
Input Section	Key type	,	2 keys: Trigger, Function			
Se	LED		bi-colors(red and	green) 2pcs,	a blue LED	
Display section	Beeper		Tone:variable variable	frequency,	Volume:3-level	
RTC	Contents		year, month, day	hour, minute	and second	
C	Error		≤±90seconds pe	er a month		
			Frequency	2402MHz ~	2480MHz	
			Specification	Bluetooth Ve	er2.1	
	Bluetooth		Communication distance	10m		It may shorter depending on usage environments
			Output level	Class 2		4dBm max.
''			Profile	SPP/HID		
	USB		·Full-Speed 12Mbps ( HID/COM ) ·Hi-Power Bus-powered 対応			
	Serial interface		2contacts for cradle.			
	Light emitti	ng device	Red laser diode			
Optical Section	Wave lengt	th / output	650±10nm ≤1n	ıW		at 25 deg. C
٦ –	Scan rate		100±20scan/sed	;		
	Supported Symbologie	es	JAN,EAN,UPC-A Industrial 2 of 5,I Code 11, Code 3	nterleaved 2	of 5,	Refer to Chapter18 for details
	Minimum R	Resolution	Code 39 : 0.12	7mm		PCS 0.9
1D	Curvature		Radius ≥ 15mm Radius ≥ 20mm	` • • • • • • • • • • • • • • • • • • •		PCS 0.9
) Symbologies	Scan Angle	)	Pitch: $\alpha \le \pm 35^{\circ}$ Skew: $\beta \le \pm 50^{\circ}$ (Excluding dead zone) Tilt: $\gamma \le \pm 20^{\circ}$		PCS 0.9	
gie			Resolution:0.127		60~100	
Ó			Resolution:0.15		40~130	
	DOF(mm)	Code 39	Resolution:0.25		40~220	PCS 0.9
			Resolution:0.5		40~360	
			Resolution:1.0		50~570	
	Minimum PCS		0.45			With over 70% reflectivity of space and quiet zone.

	Item		Specification	Note
	Main Battery		Lithium-ion polymer battery 230mAh(typ.)	
	Up-time		10hours or more	When a barcode is scanned twice in 10 sec. at 25 deg. C
Power	Range of Operation(Charging) Voltage		4.5 ~ 5.5 V	
	Current consump tion	Charging	<500mA	
Ш	Tempera	Operating	0 ∼ 50 ℃	
1Vir	ture	Storage	-20 ∼ 60 °C	
onr	Humidity	Operating	20%RH $\sim$ 85%RH	No frost, no condensation.
ner	Tiuitiiuity	Storage	20%RH $\sim$ 85%RH	No frost, no condensation.
ıtal Sp	Ambient Light	Fluorensc ent	4,000 lx or less	
ec.	Immunity	Sunlight:	80,000 lx or less	
Environmental Specification	Vibration  Drop		Increase the frequency of vibration from 10 Hz to 100 Hz at an accelerated velocity of 19.6 m/s2 (2G) for 6 minutes each in X, Y and Z-direction. Repeated this test for 10 times.	
			Drop 3 times, at each 6 faces (right, left, front, back and top), from a height of 120 cm onto a concrete surface.	
	Dust and o	drip proof	IP42	

	Item		Specification	Note
	Laser safety		JIS C 6802:2011 Class2 IEC 60825-1 Ed.2: 2007 Class 2 CDRH Class II	
ן גע	Safety sta	ındards	EN60950-1:2005 IEC60950-1:2006	
Regulatory	EMC		EN55022 EN55024 FCC Part 15 Subpart C , Subpart B ClassB VCCI ClassB	For residential, commercial and light-industrial environments
	Product safety		CE Marking	
	Other		Bluetooth logo certification	
lmmu	No destruction		10kV (Air)	Condition:
Immunity test	immunit y	No malfunctio n	8kV (Air)	IEC61000-4-6 compliant
Ph Fe	Dimensions		62.0(D) × 32.0(W) × 17.0(H) (mm)	
Physical Features	Dimensions  Weight		Approx. 28g	Excluding the accessories

# 4. Detailed View

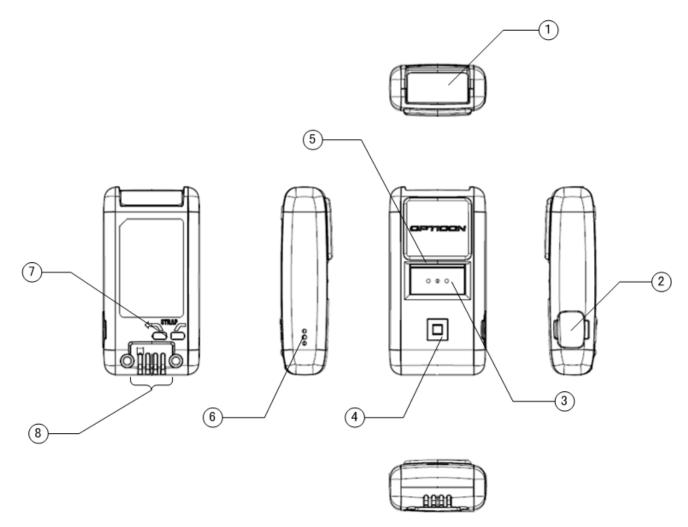


Figure 1:Detailed View

No.	Name	Description	
1	Scanning Window	Laser light is emitted through this window to read bar codes.	
2	Scanning Window	The laser light is emitted through this window.	
3	Trigger Key	A trigger key used to read bar codes	
4	Function Key	A function key that can be configured with application	
5	LED	Indicator of operating status, such as bar code reading and warnings	
6	Buzzer Hole	Sound from a built-in buzzer comes out through these holes.	
7	Strap Hole	A hole to attach a hand strap	
8	Contact	The contact is for charge and communication.	

# 5. Electrical Specifications

### 5.1. USB

•Voltage : 4.5-5.5V

•Bus-Power Class : Hi-Power ( 500mA max )

·Current consumption : <500mA

# 5.2. Charging Cradle

•Voltage : 4.5-5.5V

### 6. Interface

The OPN-2002n supports USB, Bluetooth and serial interfaces.

### 6.1. USB

This interface supported FULL Speed USB.

#### 6.1.1. Connector

Signal	Pin No.
VCC	1
Data(-)	2
Data(+)	3
(NC)	4
GND	5

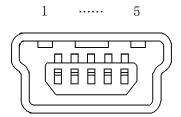


Figure 2 : MINI USB B Connector

#### 6.1.2. USB Interface Circuit

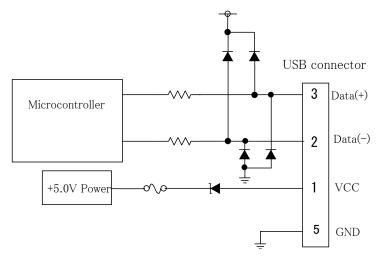


Figure 3:USBInterface Circuit

#### 6.2. Bluetooth

# The OPN-2002n supported Bluetooth.

Frequency : 2402MHz  $\sim$  2480MHz

Specification : Bluetooth Ver2.1

Communication

distance

: 10m

Output level : Class 2 (4dBm Max.)

Supported profiles : SPP/HID

Topology of connection : Point-to-point

Operating mode : Master or Slave mode

Security mode : Enabled Encryption : Enabled

#### 6.3. Serial Interface

### 6.3.1. Connector

Signal	Pin No.
VCC	1
RXD	2
TXD	3
GND	4

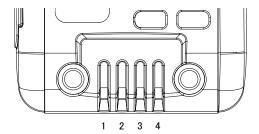


Figure 4 : Serial Interface Connector

### 6.3.2. Serial Interface Circuit

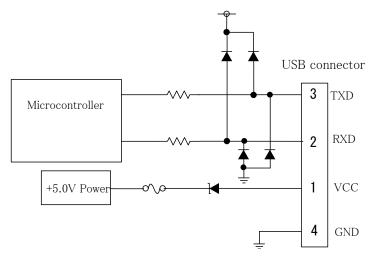


Figure 5: Serial Interface Cirtuit

# 7. Optical Specifications

### 7.1. Laser Scanning Specification

Item		Specification	Unit
Light-emitting device		Red laser diode	
Emission Wave length		650±10 (25 deg.C)	nm
Output power		<1.0	mW
Scan Method		Bi-directional	
Scan Rate		100±20	Scan/Sec
Scan	Scan Angle	54±5	Deg
Angle	Effective Scan Angle	44 (min.)	Deg

### 7.2. Laser Scanning Specification

#### 7.2.1. Laser Scanning Tilt

Laser scanning tilt is the vertical difference between both ends of a laser scan line. Measure it in the middle of the laser scan line.

- Up to 1.2 degrees angle in vertical direction from the scan origin (mirror motor).
- · Up to 3.1 mm at 150 mm from the scan origin.

### 7.2.2. Scanning Curvature

The maximum difference between the laser scan line and the line between both ends of the laser scan line. Measure it in the middle of the laser scan line.

- · Up to 1.27 degrees angle in vertical direction from the scan origin (mirror motor).
- Up to 3.3 mm at 150 mm from the scan origin.

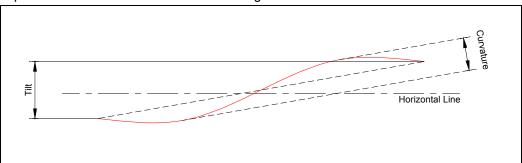


Figure 6: Laser Scanning Tilt and Curvature

# 8. Technical Specifications

The conditions for technical specifications are as follows, unless otherwise specified in each section

<Conditions>

Ambient Temperature and Humidity Room temperature, room humidity

Ambient Light 500 ~ 900 lx (excluding high-frequency lighting)

Background Black

Reading Test Accept the performance with 10 consecutive successes

in reading. Each reading should be done in 0.5 seconds

or less.

# 8.1. Print Contrast Signal

PSC 0.45 or higher (70% or higher reflectivity of space and quiet zone)

\* Be sure to keep the optical window clean without dirt or scratches, or it may have a bad effect on the reading characteristics.

# 8.2. Depth of Field and Resolution

Distance in this drawing is measured from the front edge of the scanner.

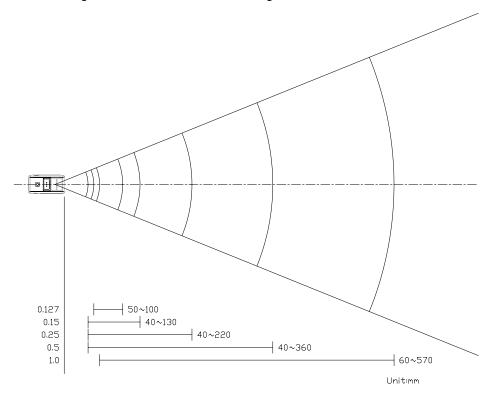


Figure 7: Depth of Field

Resolution	Depth of Field(mm)	Symbology	PCS	Quiet Zone	Digits
1.0mm	$60\sim570$	Code 39	0.9	25mm	1 桁
0.5mm	40 ~ 360	Code 39	0.9	18mm	3 桁
0.25mm	40 ~ 220	Code 39	0.9	10mm	8 桁
0.15mm	40 ~ 130	Code 39	0.9	7mm	10 桁
0.127mm	50 ~ 100	Code 39	0.9	5mm	4 桁

#### <Conditions>

Bar Code Sample: Optoelectronics Test Chart, N/W ratio = 1:2.5

Angle :  $\alpha = 0^{\circ} \beta = 15^{\circ} \gamma = 0^{\circ}$ 

Curvature : R = ∞

# 8.3. Pitch, Skew, and Tilt

Pitch :  $\alpha \leq \pm 30^{\circ}$ 

Skew :  $\beta \le \pm 50^{\circ}$  (Excluding dead zone)

Dead Zone  $\,\,$  :  $\beta \,\, \leqq \,\, \pm 8 \,\, ^{\circ}$  (Decoding may fail in some areas as a result of specular reflection)

Tilt :  $\gamma \le \pm 20^{\circ}$ 

<Conditions>

Bar Code Sample Optoelectronics Test Sample

<Pitch, Skew and Dead Zone>

PCS 0.9, Resolution 0.25 mm, 9-digit Code 39,

Quiet Zone 10 mm, N/W Ratio = 1:2.5

<Tilt>

PCS 0.9, Resolution 0.26 mm, JAN-13, Quiet Zone 10 mm

Distance 100 mm from the edge of the scan engine

Angle Pitch angle :  $\beta = +15^{\circ}$ ,  $\gamma = 0^{\circ}$ 

Tilt angle :  $\alpha = 0^{\circ}$ ,  $\beta = +15^{\circ}$ 

Skew angle / Dead zone:  $\alpha = 0^{\circ}$ ,  $\gamma = 0^{\circ}$ 

Curvature R = ∞

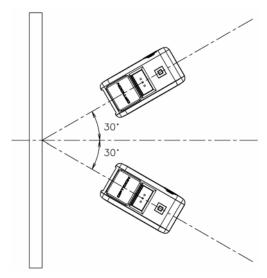


Figure 8: Pitch Angle

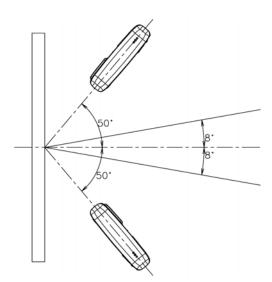


Figure 9: Skew Angle

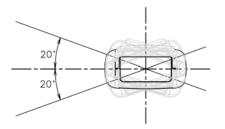


Figure 10: Tilt Angle

### 8.4. Curvature

8-digit JAN :  $R \ge 15 \text{ mm}$ 13-digit JAN :  $R \ge 20 \text{ mm}$ 

<Conditions>

Bar Code Sample Optoelectronics Test Sample

PCS 0.9, Resolution 0.26 mm, JAN-13, Quiet Zone 10 mm

Distance 100 mm from the edge of the scan engine

Angle Skew angle  $\beta = +15^{\circ}$ 

Curvature R = ∞

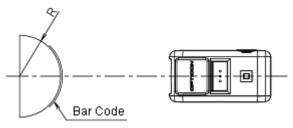


Figure 11 : Curvature

# 9. Environmental Specifications

### 9.1. Temperature

Operating : 0  $\sim$  50  $^{\circ}\mathrm{C}$  Strage : -20  $\sim$  60  $^{\circ}\mathrm{C}$ 

# 9.2. Humidity

Operating : 20  $\sim$  85%RH(no condensation, no frost) Strage : 20  $\sim$  85%RH(no condensation, no frost)

# 9.3. Ambient Light Immunity

Scanning performance is guaranteed when the range of illumination on a barcode surface is the following values.

$$\label{eq:continuous} \begin{split} &\text{Incandescent light} &: 0 \sim 4,000 \text{ lx} \\ &\text{Fluorescent light} &: 0 \sim 4,000 \text{ lx} \\ &\text{Sunlight} &: 0 \sim 80,000 \text{ lx} \end{split}$$

#### <Conditions>

Barcode Test Sample OPTOELECTRONICS test chart

Resolution 0.254 mm PDF417 specified in Chapter 7

Distance 89 mm from the front edge of the scanner. Angles Pitch:  $\alpha = 0^{\circ}$ , Skew:  $\beta = 15^{\circ}$ , Tilt:  $\gamma = 0^{\circ}$ 

Curvature  $R = \infty$ Power Voltage 3.7 V

#### 9.4. Dust and Drip Proof

IEC IP42 equivalent

#### Protection against solid objects: Level 4

Protected against solid objects greater than 1.0 mm

### Protection against liquids: Level 2 (JIS IPX2)

Protected against dripping water from the vertical when tilted up to 15°

<sup>\*</sup> Be sure that the direct light or specular reflection from the light source does not enter the light receiving section of the OPN-2002n.

### 9.5. Vibration Strength(without packing)

There shall be no sign of malfunction after the following vibration test.

<u>Vibration test:</u> Increase the frequency of the vibration from 10Hz to 100Hz at an accelerated velocity of 19.6m/s2 (2.0 G) for 30 minutes (60 minutes for a cycle) in the non-operating state. Repeat this in each X, Y and Z direction.

#### 9.6. Vibration Strength (in individual packing)

There shall be no sign of malfunction after the following vibration test.

<u>Vibration test:</u> Increase the frequency of the vibration from 10Hz to 100Hz at an accelerated velocity of 19.6 m/s2 (2.0 G) for 30 minutes (60 minutes for a cycle) in individually packaged state. Repeat this in each X, Y and Z direction.

#### **Drop Impact Strength**

There shall be no sign of malfunction after the following drop test.

**<u>Drop test:</u>** Drop the scanner three times (18 times in total), at each 6 face, from a height of 120cm onto a concrete floor as shown below.

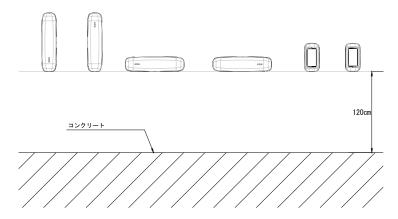


Figure 12: Drop test

#### 9.7. Drop Impact Strength (in individual packaging)

There shall be no sign of malfunction after the following drop test.

<u>Drop test:</u> Drop an individually packaged scanner 10 times in total, at any of 1 corner, 3 edges, and 6 faces, from a height of 150 cm onto a concrete floor.

#### 9.8. Electrical Specifications

Air discharge ±8 kV max. (No malfunction)

±10 kV max. (No destruction)

Measurement environment An electrostatic testing device compliant with IEC 61000-4-2 is

used.

Discharge resistance  $330 \Omega$  Charging capacitor 150 pF

# 10. Regulatory Compliance

#### 10.1. Laser Safety

JIS C 6802:2011 Class 2

IEC 60825-1 Ed.2: 2007 Class 2

CDRH Class II

#### 10.2. Product Safety

EN60950-1:2005 IEC60950-1:2006

#### 10.3. EMC

EN55022

EN55024

FCC Part 15 Subpart C, Subpart B ClassB

Federal Communications Commission Notices

This product complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

#### Harmful Interference Notice

This product has been tested and complies with the specifications 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 according to 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 is found 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 or devices
- · Connect the equipment to an outlet other than the receiver's
- · Consult a dealer or an experienced radio/TV technician for assistance

Changes or modifications to this equipment that have not been approved by Ruckus Wireless may void the user's authority to operate this equipment.

#### RF Exposure

The OPN-2002n unit (FCC ID: UFOOPN2002N) complies with FCC radiation exposure limits set forth for uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines in Supplement C to OET65. The unit has very low level of RF energy that it is deemed to comply without testing of specific absorption ratio (SAR). The equipment must not be co-located or operating in conjuncion with any other antenna or transmitter

#### VCCI Class B

This is a Class B product, to be used in a domestic environment, based on the Technical Requirement of the Voluntary Control Council for Interference from Information Technology Equipment (VCCI). If this is used near a radio or television receiver in a domestic environment, it may cause radio interference.

#### 10.4. Other

Bluetooth logo certification

MFi License Program

The OPN-2002n uses Bluetooth module which qualifies as radio equipment for low-power radio stations as specified in the Radio Law 38-24-1.

Specified Radio Equipment:

Low power data communications system in the 2.4GHz band in Article 2 paragraph 1 item (19),

Ordinance of MPT.

Model type of Bluetooth module: OPA-26X1

Number of certification: 201-125603

#### 11. RoHS

The OPN-2002n is compliant with RoHS.

RoHS: The restriction of the use of certain hazardous substances in electrical and electronic equipment, 2002/95/EC

#### 12. MTBF

MTBF (Mean Time Between Failures) 10,000 hours

#### 13. Precautions

### 13.1. Precaution against Laser Light

\*Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Caution - Do not stare into the laser light from a scanning window. It may harm your eyes.

Do not point the laser directly at others' eyes. It may harm your eyes.

Do not stare into the beam with optical instruments. It may harm your eyes.

#### 13.2. Handling

Handle this product carefully. Do not deliberately subject it to any of the following:

#### (1) Shock:

- Do not drop this product from a height greater than specified in this manual.
- Do not place this product under or between any heavy items.
- Do not swing this product around holding the hand strap.
  - (2) Temperature Conditions:
- Do not use this product at temperatures outside the specified range.
- Do not pour boiling water on this product.
- Do not throw this product into a fire.
  - (3) Foreign Materials:



- Do not immerse this product in water or other liquid.
- Do not expose this product to chemicals.

#### (4) Others

- Do not disassemble this product.
- Do not use this product near a radio or a TV. It may cause reception problems.
- This product may be affected by a momentary voltage drop caused by lightning.
- This product may not perform properly in a place where it will be subjected to a flickering light, such as a CRT (computer monitor, television, etc.).

#### 13.3. Radio Low

The OPN-2002n uses Bluetooth module which qualifies as radio equipment for low-power radio stations (2.4 GHz band advanced data communication systems) as specified in the Radio Law 38-24-1.

Therefore it does not need to have a radio station license in Japan.

The following activities are prohibited under the Radio Law:

- · Remodeling and disassembly
- Peeling off the certificate label

Do NOT use the scanner under the following environment, as radio interference may affect other device and end up with causing physical or material damage.

- Safety apparatus and medical device for human body protection
- · Environment where is concerned to cause serious damage

#### 13.4. Export Administration Regulations

This product is subject to the strategically controlled exports regulated under "Foreign Exchange and Foreign Trade Laws". Therefore, export of this product may require an export permission of Japanese government.

# 13.5. Bluetooth

To communicate via Bluetooth, the device which OPN-2002n is connected to must support the same Bluetooth version and profile as OPN-2002n's.

- OPN-2002n is compliant to Bluetooth standards. However, we cannot assure the connection between OPN-2002n and other Bluetooth devices which have not been tested.
- Bluetooth supporting devices use 2.4 GHz frequency band. However, many other sorts of devices also utilize this frequency band. It may have an effect on the communication speed or communication range of this data collector.
- The use of OPN-2002n outside of the European Union, the United States and Canada is punishable under the law.
- Communication speed and communication range of OPN-2002n may differ due to the obstacles and radio wave conditions between OPN-2002n and the device, which OPN-2002n is connected to.
- Conditions of the device, which OPN-2002n is connected to, may also affect the communication speed and communication range of OPN-2002n.

#### 13.6. Frequency Band

The frequency band 2.4 GHz is utilized by this product. Read carefully the followings before using this product.

In the frequency band of this product, scientific, medical and industrial devices including microwaves are used. Also other radio stations including local private radio station for mobile object identification requiring

license for such as manufacturing lines at factories, specific power-saving radio station requiring no license and amateur radio station are managed.

- 1. Please make sure that "other radio stations" are not managed in the frequency band 2.4 GHz before using this product.
- 2. In case that radio interference occurs between this product and "other radio stations," change the service space immediately, or stop transmitting radio wave to avoid the interference.
- 3. If you have any questions or troubles, please contact our sales office.
  - \* This specification manual is subject to change without prior notice.

### 14. Product Label

The labels shown below are attached to the back side of the data collector.

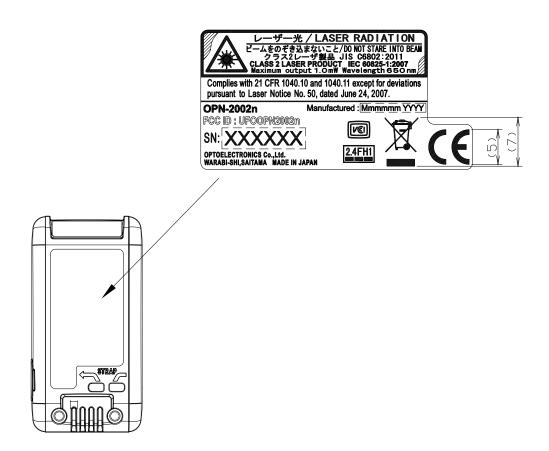
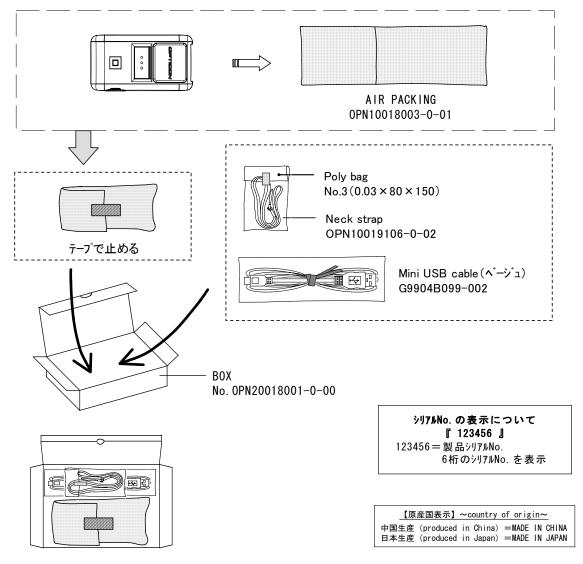


Figure 13: Product & Laser Caution Label

# 15. Packaging Specifications

# 15.1. Individual Packaging Specification

Assembled package size: 125 x 112 x 40 (WDH mm)



#### 【国内向】個装箱バーコードラベル (3A0002)

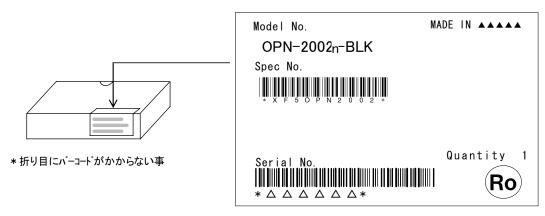
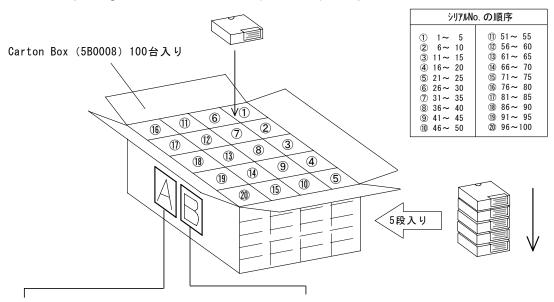


Figure 14: Individual Packaging

### 15.2. Collective Packaging Specification

Assembled package size: 595 x 520 x 245 (WDH mm), 100 pieces/box



# A:【国内向】外装箱パーコードラベル

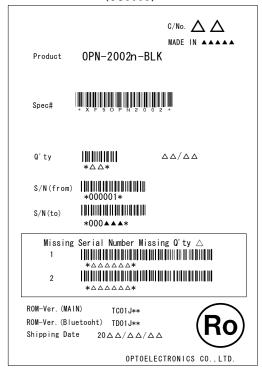
正面と背面の2ヶ所に貼付(面の中央付近)

B:【国内向】Missing Serial Numberラベル 欠品が3つ以上の場合にのみ貼付する

Aラベルと並べ正面と背面の2ヶ所に貼付(面の中央付近)

(3C0007)

(3C0006)



C/No.  $\triangle$ MADE IN AAAA Missing Serial Number Missing Q'ty  $\triangle \triangle$ OPTOELECTRONICS CO., LTD.

【原産国表示】~country of origin~ 中国生産 (produced in China) = MADE IN CHINA 日本生産 (produced in Japan) = MADE IN JAPAN

Figure 15: Collective Packaging

# 16. Warranty

#### 16.1. Warranty period

OPTOELECTRONICS Co., Ltd. warrants that this product is free of defects or malfunctions for a period of twelve (12) months from its shipment. In case of having defects or malfunctions caused by normal usage in accordance with this specification during the foregoing warranty period, OPTOELECTRONICS shall repair or adjust the product free of charge.

Any repair or replacement of the product after the foregoing warranty period shall be charged at regular repair rates.

If defects or malfunctions were caused by customer mishandling, product repairs or replacement will be charged at regular repair rates, even during the foregoing warranty period.

#### 16.2. Delivery

Products for maintenance or repair shall be sent back to OPTOELECTRONICS. The sender is responsible for all shipping costs.

#### 16.3. Repair Timeframe

Repaired products shall be shipped back to the customer within 20 days after acceptance by OPTOELECTRONICS.

Expedited repairs may be available, subject to terms agreed to by OPTOELECTRONICS and the customer.

# 16.4. Maintenance Period

The maintenance period of this product is 5 years after its shipment.

OPTOELECTRONICS may discontinue maintenance for this product during the 5-year maintenance period if a satisfactory replacement product or maintenance solution is agreed to.

#### 16.5. Other

Any additional warranty issues must be discussed with OPTOELECTRONICS on a case-by-case basis.

### 17. Physical Features

#### 17.1. Dimensions

$$62.0(D) \times 32.0(W) \times 17.0(H) (mm)$$

### 17.2. Weight

Approx. 28g (Excluding the accessories)

# 17.3. Mechanical Drawing

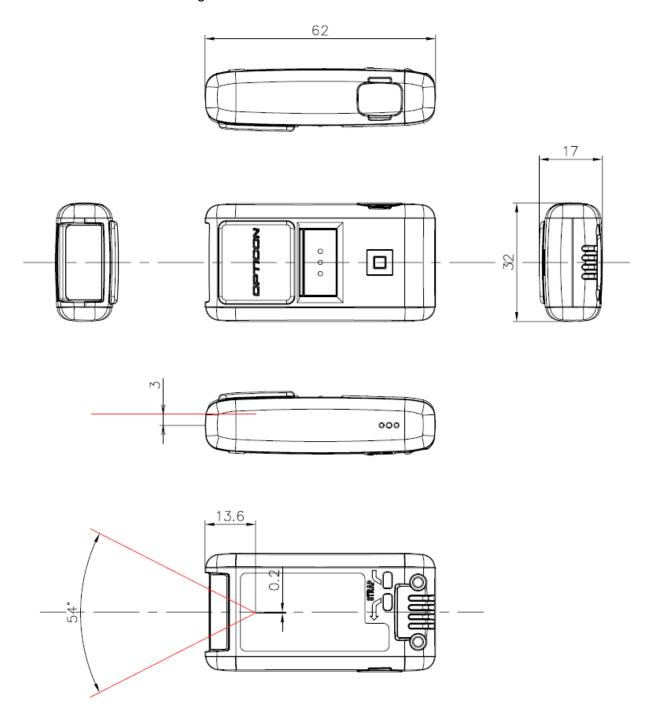


Figure 16: Mechanical Drawing

# 18. Supported Symbologies

# 18.1. 1D symbologies

Symbology	Symbology		
JAN13 digits	Interleaved 2 of 5		
JAN13 digits + ADDON2 digits	Code 93		
JAN13 digits + ADDON5 digits	Code 128		
JAN8 digits	MSI/Plessey		
JAN8 digits + ADDON2 digits	IATA		
JAN8 digits + ADDON5 digits	UK/Plessey		
EAN13 digits	Telepen		
EAN13 digits + ADDON2 digits	Matrix 2 of 5		
EAN13 digits + ADDON5 digits	ChinesePostMatrix 2 of 5		
EAN8 digits	NW-7 ABC Code		
EAN8 digits + ADDON2 digits	NW-7 CX Code		
EAN8 digits + ADDON5 digits	S-Code		
Instore Code 13 digits	Tri/Optic		
Instore Code 8 digits	Code 39 Full Ascii		
UPC-A	Code 39 It.Pharmaceutical		
UPC-A+ADDON2 digits	EAN 128		
UPC-A+ADDON5 digits	RSS-14		
UPC-E	RSS Limited		
UPC-E+ADDON2 digits	RSS Expanded		
UPC-E+ADDON5 digits	PDF417		
UPC-E1	MicroPDF417		
UPC-E1+ADDON2 digits	Code 11		
UPC-E1+ADDON5 digits	Korean Post		
Code 39			
NW-7 (Codabar)			
Industrial 2 of 5			