

JPTUV-081962

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME

SYSTEME CEI D'ACCEPTATION MUTUELLE DE CERTIFICATS D ESSAIS DES EQUIPEMENTS ELECTRIQUES (IECEE) METHODE OC

## **CB TEST CERTIFICATE**

## CERTIFICAT D'ESSAI OC

Product Produit

Name and address of the applicant Nom et adresse du demandeur

Name and address of the manufacturer Nom et adresse du fabricant

Name and address of the factory Nom et adresse de l'usine

Ratings and principal characteristics Valeurs nominales et charactéristiques principales

Trademark (if any)
Marque de fabrique (si elle existe)

Type of Manufacturer's Testing Laboratories used Type de programme du laboratoire d'essais constructeur

Model / Type Ref. Ref. de type

Additional information (if necessary may also be reported on page 2)
Les informations complémentaires (si nécessaire, peuvent être indiqués sur la 2ème page)

A sample of the product was tested and found to be in conformity with Un échantillon de ce produit a été essayé et a été considéré conforme à la

As shown in the Test Report Ref. No. which forms part of this Certificate

Comme indiqué dans le Rapport d'essais numéro de référence qui constitue partie de ce Certificat

Barcode Scanner

Honeywell International Inc Honeywell Sensing & Productivity Solutions 9680 Old Bailes Rd, Fort Mill, SC 29707, USA

Honeywell International Inc Honeywell Sensing & Productivity Solutions 9680 Old Bailes Rd, Fort Mill, SC 29707, USA

Metro (Suzhou) Technologies Co., Ltd. No. 221 Xinghai Street China-Singapore Suzhou Ind. Park, Suzhou, Jiangsu Province 215021, P. R. China

1) DC 5.0V, 450mA; Class III 2) DC 3.75V (Li-ion battery operated); Class III Class 2 laser product

Honeywell

N/A

1) 1980i 2) 1981i

Also investigated to EN 60825-1:2014 (3rd Edition). Only hazards resulting from laser radiation have been addressed.
For model differences, refer to the test report.

IEC 60825-1:2014 See Test Report for National Differences

50089797 001

This CB Test Certificate is issued by the National Certification Body Ce Certificat d'essai OC est établi par l'Organisme National de Certification



26.07.2017

TÜV Rheinland Japan Ltd. Global Technology Assessment Center 4-25-2 Kita-Yamata, Tsuzuki-ku Yokohama 224-0021 Japan Phone + 81 45 914-3888

Fax + 81 45 914-3354 Mail: info@jpn.tuv.com Web: www.tuv.com

Signature:

Mark Chen

Date:

### TÜV Rheinland (China) Ltd. Member of TÜV Rheinland Group



Honeywell International Inc Honeywell Sensing & Productivity

Our ref. : SC ZJ

Date

Your ref.: 154260035

: 26.07.2017

Solutions 9680 Old Bailes Rd Fort Mill, SC 29707 USA

Ref : CB Certificate Japan

Type of Equipment : Barcode Scanner Model Designation : See Certificate Certificate No. : JPTUV-081962 Report No. : 50089797 001

Dear Ladies and Gentlemen,

Thank you very much for your interest in our services.

Please find enclosed your certification documents.

We appreciate your support and would like to offer our assistance in the approval of your future products through our extensive range of technical services.

Please feel free to contact us whatever your requirements may be.

With kind regards,

Certification Body

Mark Chen

CC: Honeywell International Inc

Enclosure





Test Report issued under the responsibility of:



### TEST REPORT IEC 60825-1

### Safety of laser products -

Part 1: Equipment classification and requirements

**Report Number**.....: 50089797 001 **Date of issue**.....: 2017.07.25

Total number of pages ...... 16

Name of Testing Laboratory TÜV Rheinland Shanghai Co., Ltd. preparing the Report.....

Applicant's name .....: Honeywell International Inc Honeywell Sensing & Productivity

Solutions

Address.....: 9680 Old Bailes Rd, Fort Mill, SC 29707, USA

Test specification:

**Standard.....:** IEC 60825-1:2014 (Third Edition)

Test procedure .....: CB Scheme

Non-standard test method .....: N/A

Test Report Form No. .....: IEC60825 1E

Test Report Form(s) Originator ....: ÖVE

Master TRF.....: Dated 2014-07

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This report is not valid as a CB Test Report unless signed by an approved CB Testing Laboratory and appended to a CB Test Certificate issued by an NCB in accordance with IECEE 02.

### General disclaimer:

The test results presented in this report relate only to the object tested.

This report shall not be reproduced, except in full, without the written approval of the Issuing CB Testing Laboratory. The authenticity of this Test Report and its contents can be verified by contacting the NCB, responsible for this Test Report.



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Test item description.....: Barcode Scanner
Trade Mark....: Honeywell

Manufacturer .....: Honeywell International Inc Honeywell Sensing & Productivity

Solutions

Model/Type reference .....: 1980i, 1981i

**Ratings**.....: 1980i: DC 5.0V, 450mA;

1981i: DC 3.75V(Li-ion battery operated);

Class 2 laser product



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Res	Responsible Testing Laboratory (as applicable), testing procedure and testing location(s):							
$\boxtimes$	TÜV Rheinland Shanghai Co. Ltd	TÜV Rheinland Shangh	ai Co., Ltd.					
Test	ing location/ address:	No.177, 178, Lane 777, District, Shanghai, Chin	West Guangzhong Road, Jing'an a					
	Associated CB Testing Laboratory:	N/A						
Test	ing location/ address:	N/A						
Test	ed by (name, function, signature):	Bright Guo / Cherry Sun	Bright and Chy I					
App	roved by (name, function, signature):	Stanley Liu	Stanleyfin					
		T	V-					
	Testing procedure: TMP/CTF Stage 1:	N/A						
Test	ing location/ address:							
Test	ed by (name, function, signature):							
Approved by (name, function, signature):								
	Testing procedure: WMT/CTF Stage 2:	N/A						
Test	ing location/ address:							
Test	ed by (name, function, signature):							
Witn	essed by (name, function, signature) .:							
App	roved by (name, function, signature):							
		T						
	Testing procedure: SMT/CTF Stage 3 or 4:	N/A						
Testing location/ address:								
Tested by (name, function, signature):								
Witn	essed by (name, function, signature) .:							
App	roved by (name, function, signature):							
Sup	ervised by (name, function, signature) :							

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## List of Attachments (including a total number of pages in each attachment):

ATTACHMENT 1 - Photo document (6 pages)

### **Summary of testing:**

The product has been tested according to standard IEC/EN 60825-1:2014. The tests have been performed according to the following sequence:

Determine wavelength λ.

Determine angular subtense  $\alpha$  of apparent source.

Determine measurement conditions (distance, aperture stop, time base, AEL)

Measure radiant power from laser diode under normal condition.

Measure radiant power from laser diode under single fault condition.

The product is classified as Class 2 laser product according to both IEC/EN 60825-1:2014 and IEC/EN 60825-1:2007.

Tests performed (name of test and test clause): 5.4 Measurement geometry.	Testing location: TÜV Rheinland Shanghai Co., Ltd. No.177, 178, Lane 777, West Guangzhong Road, Jing'an District, Shanghai, China
Summary of compliance with National D	Differences:

N/A

☑ The product fulfils the requirements of EN 60825-1:2014.

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### Copy of marking plate:

Trade Mark on The Product





Model: 1980i





Model: 1981i

LASER LIGHT- DO NOT STARE INTO BEAM CLASS 2 LASER PRODUCT. 鐳射光,請勿直視鐳射光束,等級2鐳射產品。RAYONNEMENT LASER NE PAS REGARDER DANS LE FAISCEAU. APPAREIL À LASER DE CLASSE 2. MAX. 1mW: 630-680 nmIEC 60825-1:2014. Complies with 21 CFR 1040.10 and 1040.11 except for deviations pursuant to Laser Notice No. 50, dated June 24, 2007.

**Laser Label** 



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Test item particulars.	:			
Classification of insta	Illation and use:	Class III		
Supply Connection	:	DC suppl	y	
	:			
Possible test case ve	rdicts:			
- test case does not a	pply to the test object::	N/A		
- test object does med	et the requirement:	P (Pass)		
- test object does not	meet the requirement::	F (Fail)		
Testing				
Date of receipt of test	item:	2017-07-	04	
Date (s) of performan	ce of tests::	2017-07-	04 to 2017-07-07	
General remarks:				
	fers to additional information ap ' refers to a table appended to th		the report.	
Throughout this repo	ort a 🗌 comma / 🗵 point is u	sed as the	e decimal separator.	
Manufacturer's Decla	ration per sub-clause 4.2.5 of	IECEE 02	:	
includes more than one declaration from the Ma sample(s) submitted fo representative of the pi	anufacturer stating that the	☐ Yes ⊠ Not a	pplicable	
When differences exis	st; they shall be identified in t	ne Genera	al product information section.	
Name and address of	f factory (ies):	No. 221 X	uzhou) Technologies Co., Ltd. Kinghai Street China-Singapore Su: , Suzhou, Jiangsu Province 215021	
General product info	rmation:			
1D and 2D barcodes. technology capable of		ustrial sca	naging technology capable of readi nner features full-range area-imagi	
Model difference:  Model name	Parameter	T	LED Type	
1980i	DC 5,0V, 450mA		LED Type	
		-	LR G6SP-CADB-1-1	
1981i	DC 3,75V(Li-ion battery opera	, i	d voltage and power supply mode.	The test
	civicali illoucia i 3001 aliu 1301	i aio iaici	a voltado alla powel supply illude.	

An integrated laser pointer is used for aiming purpose while LED light is used for scanning the bar code.

is based on model 1981i.



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The Barcode Scanner is class III equipment, which is only SELV circuit inside EUT, connected and supplied by USB port or battery.

The Laser diode emission power is evaluated according to IEC/EN60825-1 in complying with Class 2 Laser product, the related marking and warning labels are attached on labels and User Manual.

The product was submitted and evaluated for use at the maximum ambient temperature (Tma) permitted by the manufacturer's specification of: 50°C.

The product is designed to comply with "Class 2 Laser Product" requirement.

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	IEC 60825-1		
Clause	Requirement + Test	Result - Remark	Verdict
4	CLASSIFICATION PRINCIPLES		
4.3	Classification rules		
4.3 a	Radiation of a single wavelength	Single wavelength used.	Р
4.3 b	Radiation of multiple wavelengths		N/A
	Laser product emits at two or more wavelengths shown as additive in Table 1		N/A
	2) Laser product emits at two or more wavelengths not shown as additive in Table 1		N/A
4.3 c	Radiation from extended sources (see 5.4.3)	Not extended source.	N/A
4.3 d	Non-uniform, non-circular or multiple apparent source		N/A
4.3 e	Time bases		
	1) 0,25 s	Select for class 2 evaluation.	Р
	2) 100 s	Select for class 1 evaluation.	Р
	3) 30000 s		N/A
4.3 f	Repetitively pulsed or modulated lasers	Continuous radiation.	N/A
	1) Any single pulse		N/A
	2) Average power for pulse trains		N/A
	3) Pulse duration t ≤ T <sub>i</sub> : Number of pulses N and C <sub>5</sub> :		N/A
	3) Pulse duration t > T <sub>i</sub>		N/A
4.4	Laser products designed to function as conventional lamps.	Not such laser product.	N/A
	measured at 200 mm distance from closest point of human access ( $\square$ > 5 mrad).		N/A
	Un-weighted radiance L measured at 200 mm distance (comparison with $L_T = 1 \text{ MWm}^{-2}\text{sr}^{-1}/\square$ ) under reasonably foreseeable single fault conditions.		N/A
	Evaluation of emission according to IEC 62471 series (optional):  Standard applied (IEC 62471 series)		N/A
	Classification of product based on accessible laser radiation (if no laser radiation accessible: Class 1).		

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	IEC 60825-1			
	Requirement + Test	Result - Remark	Verdict	

Clause	Requirement + Test	Result - Remark	Verdict
5	DETERMINATION OF THE ACCESSIBLE EMISSIC PRODUCT CLASSIFICATION	N LEVEL and	
5.1	Tests		
	Compliance under reasonably foreseeable single fault conditions.	The built-in laser engine had been certified separately. Fault condition test considered in the laser engine test report.	Р
5.3	Determination of the class of the laser product: For Class 1C: vertical safety standard applied with requirements for Class 1C.		
5.4	Measurement geometry		
5.4.1	General	The built-in laser engine had been certified separately.	
5.4.2	Default (simplified) evaluation	Refer to laser engine CB test report. The laser engine is classified as Class 2 laser product according to both IEC/EN 60825-1:2014 and IEC/EN 60825-1:2007.	N/A
	Conditions applied:		N/A
	Aperture diameter:		N/A
	Reference point :		N/A
	Measurement distance: (for each condition)		N/A
5.4.3	Evaluation condition for extended sources		N/A
	Conditions applied:		N/A
	Most restrictive position: (distance from reference point)		N/A
	Angular subtense of the apparent source $\alpha$ and C <sub>6</sub> : (for each condition)		N/A
5.4.3 a	Aperture diameters (for each condition):		N/A
5.4.3 b	Angle of acceptance (for each condition)		N/A

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	IEC 60825-1	T	T
Clause	Requirement + Test	Result - Remark	Verdict
6	ENGINEERING SPECIFICATIONS (Product is a component, Clause 6 should be con	sidered in final system)	Р
6.2	Protective housing		
6.2.1	General		
	Protective housing prevents access to energy levels in excess of the AEL for Class 1.		Р
	Protective housing prevents access to energy levels equivalent to Class 4 and withstands exposures under reasonably foreseeable single fault conditions.		N/A
	Maintenance of Class 1, 1C, 1M, 2, 2M, or 3R (access to emissions of Class 3B or 4 is prevented).	Class 2 laser product.	Р
	Maintenance of Class 3B product (access to emission of Class 4 is prevented).		N/A
6.2.2	Service		Р
6.2.3	Removable laser system (laser system complies with requirements of Clauses 6 and 7).	Not removable laser system.	N/A
6.3	Access panels and safety interlocks		
6.3.1	Panel is intended to be removed during operation (or maintenance) and would give access to higher energy levels (see Table 13).		N/A
	Accessible emission (after removal of the panel) corresponds to product Class (designated by "X" in Table 13)		N/A
	Emission through the opening if interlocked panel of Class 1, 1C, 1M, 2, or 2M is removed (Emission < AEL of Class 1M or 2M).		N/A
	Emission through the opening if interlocked panel of Class 3R, 3B, or 4 is removed (Emission < AEL of Class 3R).		N/A
	Requirements regarding reasonably foreseeable single fault condition.		N/A
6.3.2	Override mechanism	No such device provided.	N/A
	Behaviour of override in operation when the panel is replaced.		N/A
	Visible or audible warning for override mode.		N/A
6.4	Remote interlock connector		N/A
6.5	Manual reset		N/A
6.6	Key control		N/A

Laser radiation emission warning

6.7

N/A

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	IEC 60825-1		
Clause	Requirement + Test	Result - Remark	Verdict
6.7.1	Laser product is a 3R ( $\lambda$ <400 nm; $\lambda$ >700 nm), 1C, 3B or 4 laser systems.		N/A
6.7.2	Audible or visible warning.		N/A
	Warning is failsafe or redundant.		N/A
	Viewing of the visible warning does not require exposure to emissions > AEL for Class 1M and 2M.		N/A
6.7.3	Operational control and laser aperture are provided with a warning device when they are separated more than 2 m from warning device.		N/A
6.7.4	Visible indication of output aperture if laser emission may be distributed through more than one output.		N/A
6.7.5	Switch for handheld Class 3R device must be depressed for emission (in lieu of emission indicator).		N/A
6.8	Beam stop or attenuator	No beam stop or attenuation.	N/A
6.9	Controls		N/A
6.10	Viewing optics	No viewing optics.	N/A
	a) Human access to laser radiation in excess of Class 1M prevented when the shutter is opened or attenuation varied.		N/A
	b) Opening of the shutter or variation of the attenuation prevented when exposure to laser radiation in excess of Class 1M is possible.		N/A
6.11	Scanning safeguard		N/A
6.12	Safeguard for Class 1C products		N/A
	a) Human access to laser radiation in excess of AEL for Class 1 measured under Condition 3 is prevented.		N/A
	b) Human access to laser radiation in excess of AEL for Class 3B measured through 3,5 mm aperture at 5 mm distance from applicator is prevented.		N/A
6.13	Walk-in access		N/A
	a) Means provided so that any person inside the housing can prevent activation of Class 3B or 4 laser hazards.		N/A

b) A warning device provides adequate warning of emission to any person within the housing.

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	IEC 60825-1		
Clause	Requirement + Test	Result - Remark	Verdict
	c) Where "walk-in" access during operation is intended or reasonably foreseeable, emission of laser radiation that is equivalent to Class 3B or 4 while someone is present inside the enclosure of Class 1, Class 2 or Class 3R product is prevented by engineering means.		N/A
6.14	Environmental conditions		
	- climatic conditions	Considered, no climate conditions change can lead to higher laser radiation.	Р
	- vibration and shock	Considered, no environmental conditions change can lead to higher laser radiation.	Р
6.15	Protection against other hazards		
6.15.1	Non-optical hazards (product safety standard)	See IEC 60950-1 test report: 15077054 001, 15077054 002, 15077054 003	Р
	- electrical hazards;		Р
	- excessive temperature;		Р
	- spread of fire from the equipment;		Р
	- sound and ultrasonics;		Р
	- harmful substances;		Р
	- explosion;		Р
6.15.2	Collateral radiation	No collateral radiation	N/A
6.16	Power limiting circuit		N/A

7	LABELLING		
7.1	General		
	Labels durable, permanently affixed		Р
	Labels clearly visible		Р
	Reading of labels is possible without exposure to laser radiation in excess of AEL for Class 1.	Class 2 laser product.	Р
	Colour combination		Р
	Labelling impractical due to the size or design of the product.		N/A
	Warning label – Hazard symbol (Figure 3)	Class 2 laser product.	Р

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IEC 60825-1					
Clause	Requirement + Test	Result - Remark	Verdict		
7.2 - 7.7	Text on explanatory label or pictogram (laser class, warning text)	Class 2 laser product. See copy of marking plate on page 5.	Р		
7.8	Aperture label		N/A		
7.9	Radiation output and standards information	See copy of marking plate.			
	Max output of laser radiation:	Max. 1mW	Р		
	Pulse duration	Continuous radiation.	N/A		
	Emitted wavelength(s):	Measured: 655 nm; Declared: 630-680 nm	Р		
	Name and publication date of the standard:	IEC 60825-1: 2014. Complies with 21 CFR 1040.10 and 1040.11 except for deviations pursuant to Laser Notice No.50, dated June 24, 2007.	Р		
7.10	Labels for access panels				
7.10.1 a) – f)	Labels for panels - warning wording used:		N/A		
7.10.2	Labels for safety interlocked panels - Warning wording used:		N/A		
7.11	Warning for invisible laser radiation		N/A		
7.12	Warning for visible laser radiation:		N/A		
7.13	Warning for potential hazard to the skin or anterior parts of the eye - warning wording used:		N/A		

8	OTHER INFORMATIONAL REQUIREMENTS				
8.1	Information for the user				
	a) adequate instructions for assembly, maintenance and safe use and description of the classification limitations, if appropriate.  Adequate instruction is provided in user manual and product label.				
	b) additional warning for Class 1M and 2M				
	c) laser beam parameters for radiation above the AEL of Class 1				
	3	Measured: 655 nm; Declared: 630-680 nm	Р		
	Beam divergence	Not specified	N/A		
	Pulse pattern	Continuous radiation.	N/A		
	Maximum power or energy output	Max. 1mW	Р		

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	IEC 60825-1			
Clause	Requirement + Test	Result - Remark	Verdict	
	d) safety instruction for embedded laser products and other incorporated laser products.		N/A	
	e) MPE and NOHD for Class 3B and 4 laser products;		N/A	
	For collimated beam Class 1M and 2M lasers the extended NOHD (ENOHD).			
	f) information for the selection of eye protection.		N/A	
	g) reproduction of all required labels and warnings.		N/A	
	h) location of laser apertures		N/A	
	i) list of controls, adjustments of procedures for operation and maintenance - and warning statement.		N/A	
	j) information (compatibility requirements) about laser energy source if not incorporated.		N/A	
	k) additional warning for Class 1, 1M, 2, 2M, and 3R regarding skin or corneal burns.		N/A	
	I) Information for Class 1C products (e.g. warning that repeated application may pose a risk).		N/A	
8.2	Purchasing and service information	Provided in the user manual.	Р	
	a) safety classification of each laser product stated in all descriptive material (e.g. brochures).	Provided in the user manual.	Р	
	b) adequate instructions for servicing available:	Provided in the user manual.	Р	
	<ul> <li>warnings and precautions regarding exposure of laser emission above Class 1</li> </ul>			
	maintenance schedule			
	<ul> <li>list of controls and procedures that could increase accessible emissions</li> </ul>			
	<ul> <li>description of displaceable parts</li> </ul>			

9	ADDITIONAL REQUIREMENTS FOR SPECIFIC LASER PRODUCTS		
9.1	Applicable other parts of the standard series IEC 60825		
	IEC 60825-2 (Safety of optical communication systems)	N/A	
	IEC 60825-4 (Laser guards)		
	IEC 60825-12 (Safety of free space optical communication systems used for transmission of information)	N/A	

• protective procedures for service personnel • reproduction of labels and hazard warnings



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	IEC 60825-1					
Clause	Requirement + Test	Result - Remark	Verdict			
9.2	Medical laser products: Class 3B and Class 4 medical laser products comply with IEC 60601-2-22		N/A			
9.3	Laser processing machines: Comply with IEC/ISO 11553 series.		N/A			
9.4	Electric toys: Comply with IEC 62115		N/A			
9.5	Consumer electronic products: Comply with IEC 60950 (IT-equipment) or IEC 60065 (AV equipment)		N/A			

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TABLE: Critical components information						
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s	
Laser Engine	Honeywell	EX20, EX25	650nm, Class 2 laser product	IEC 60825- 1:2014	CB by US-300	
Supplementar	y information:					

# Table1: List of test equipment used

Clause	Measurement / testing	Testing / measuring equipment / material used	Range used	Next calibration date
5	Wavelength	Ocean Optics / HR4000-CG-UV- NIR	200-1100nm	Dec., 2017
5	Power sensor	Newport 918D-UV	Auto	Sep., 2017

-- End of report --

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Type Designation: See main test report







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Type Designation: See main test report







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Type Designation: See main test report





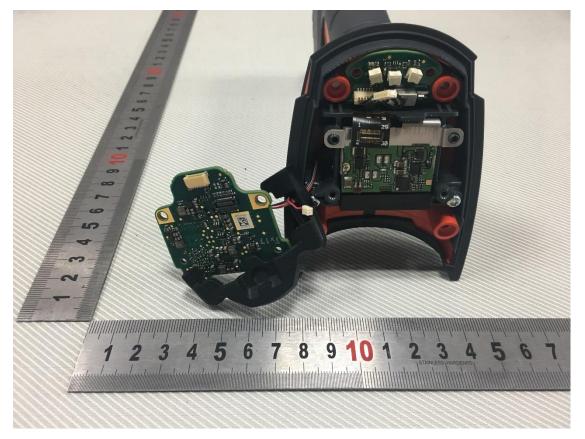


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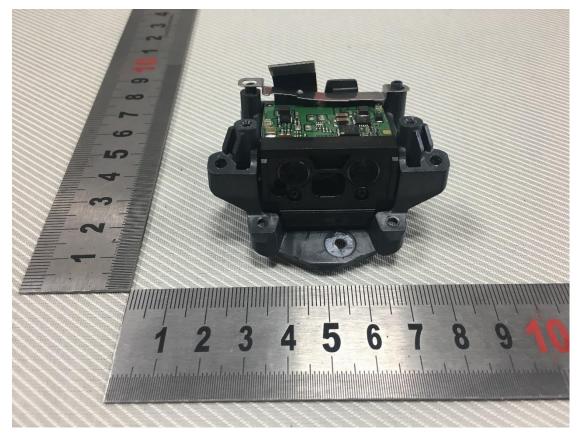


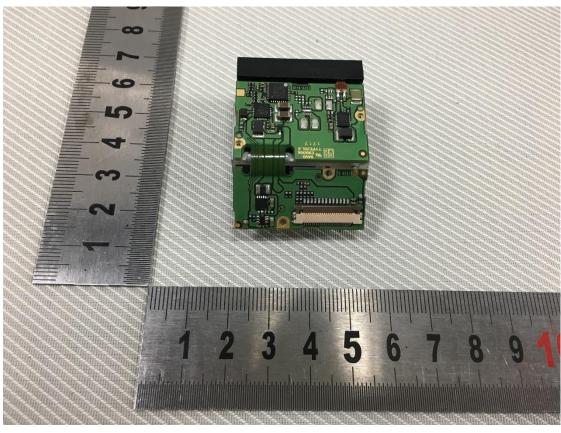
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Type Designation: See main test report





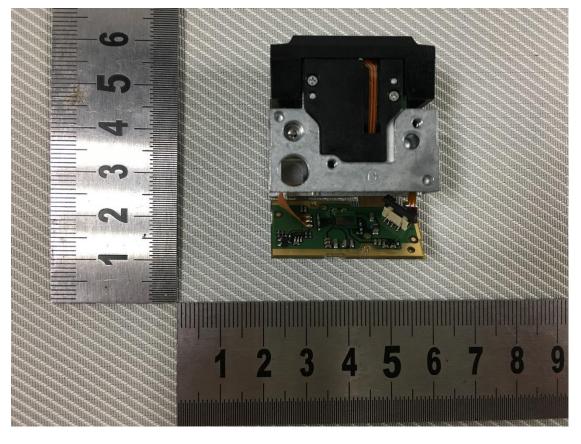


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-- End of Attachment 1 --

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