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CNAS L7497

Shenzhen CTL Testing Technology Co., Ltd.
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TEST REPORT DEGREES OF PROTECTION PROVIDED BY ENCLOSURES (IP Code)

Report Reference No.....: CTL2511245032-IP

Tested by (name + signature).....: Lvan ling

Supervised by (name + signature): Victor Chen

Approved by (name + signature)....: Ethan Chen

Date of issue.....: Nov. 26, 2025

Testing Laboratory Name.....: Shenzhen CTL Testing Technology Co., Ltd.

Address.....: Unit 01A&B&C&D-1, Building A3, Guangming Sci-Tech Park, Guan
Guang Road, Fenghuang Subdistrict, Guangming District,
Shenzhen, Guangdong, China

Testing location.....: Same as above

Applicant's name.....: Shenzhen Yawell Intelligent Technology Co., Ltd.

Address.....: A402, Wuhan University, Shenzhen Research Institute, No. 6
Yuexing 2nd Road, Gaoxin District, Yuehai Street, Nanshan District,
Shenzhen, China

Test specification:

Test specifications/ standard.....: Verification test according to sub-clause 13.4 and 14.2.8 (IP68) of
IEC 60529:1989+A1:1999+A2:2013

IP code.....: IP68

Test procedure.....: Test report

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

Test item description.....: Smart ring

Trade Mark.....: /

Manufacturer.....: Shenzhen Yawell Intelligent Technology Co., Ltd.
A402, Wuhan University, Shenzhen Research Institute, No. 6
Yuexing 2nd Road, Gaoxin District, Yuehai Street, Nanshan District,
Shenzhen, China

Model/Type reference.....: R12

Test result.....: Pass.

Summary of testing:
Testing location: Shenzhen CTL Testing Technology Co., Ltd. Unit 01A&B&C&D-1, Building A3, Guangming Sci-Tech Park, Guan Guang Road, Fenghuang Subdistrict, Guangming District, Shenzhen, Guangdong, China
Possible test case verdicts: - test case does not apply to the test object..... : N/A (Not applicable) - test object does meet the requirement..... : P (Pass) - test object does not meet the requirement..... : F (Fail)
Testing : Date of receipt of test item..... : Oct. 28, 2025 Date(s) of performance of tests..... : Oct. 28, 2025 to Oct. 29, 2025
General remarks: 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 testing laboratory. "(See Enclosure #)" refers to additional information appended to the report. "(See appended table)" refers to a table appended to the report.
General product information: Smart ring housed with plastic enclosure.

Summary of testing and conclusion :**Clause 12.2**

- The test tool: 1.0mm diameter, 100mm length of metal wire
- The test force: $1 \pm 0.1\text{N}$

Clause 13.4

- The test is made using a dust chamber.
- The talcum powder used shall be able to pass through a square-meshed sieve the nominal wire diameter of which is $50\text{ }\mu\text{m}$. and the nominal width of a gap between wires $75\text{ }\mu\text{m}$.
- The amount of talcum powder to be used is 2 kg per cubic metre of the test chamber volume
- It shall not have been used for more than 20 tests (12/20) .
- The differential pressure is used to pump the air inside the chamber into the DUT at a rate of less than 40 times the volume of the shell per hour.
- Test times: 8h

Clause 14.2.8

- The lowest point of enclosures with a height less than 850 mm is located 30000(30m) mm below the surface of the water .
- The duration of the test is 30 min.
- Waterproof tank water temperature: 23.7°C
- Temperature and humidity of laboratory environment: $20.0\text{-}25.0^{\circ}\text{C}$, $40.0\text{-}60.0\%\text{RH}$

1. Test Result:

CLAUSE	Verdict
12.2 Test for first characteristic numeral 6 (IP6X)	Pass
After Testing:	Pass
The 1.0mm diameter wire does not enter the sample housing and maintain sufficient clearance with the charged parts of the sample	Pass
The test shall not touch dangerous movement parts	N/A

CLAUSE	Verdict
13.4 Test for first characteristic numeral 6 (IP6X)	Pass
After Testing:	Pass
No dust enter into the enclosure inside.	Pass

CLAUSE	Verdict
14.2.8 Test for second characteristic numeral 8 (IPX8)	Pass
After Testing:	Pass
Not any water has entered the inside enclosure	Pass
if any water has entered:	N/A
Not be sufficient to interfere with the correct operation of the equipment or impair safety;	N/A
Not deposit on insulation parts where it could lead to tracking along the creepage distances	N/A
Not reach live parts or windings not designed to operate when wet	N/A
Not accumulate near the cable end or enter the cable if any.	N/A

Photo document

Photo 1 Overall view (Just the colors are different.)

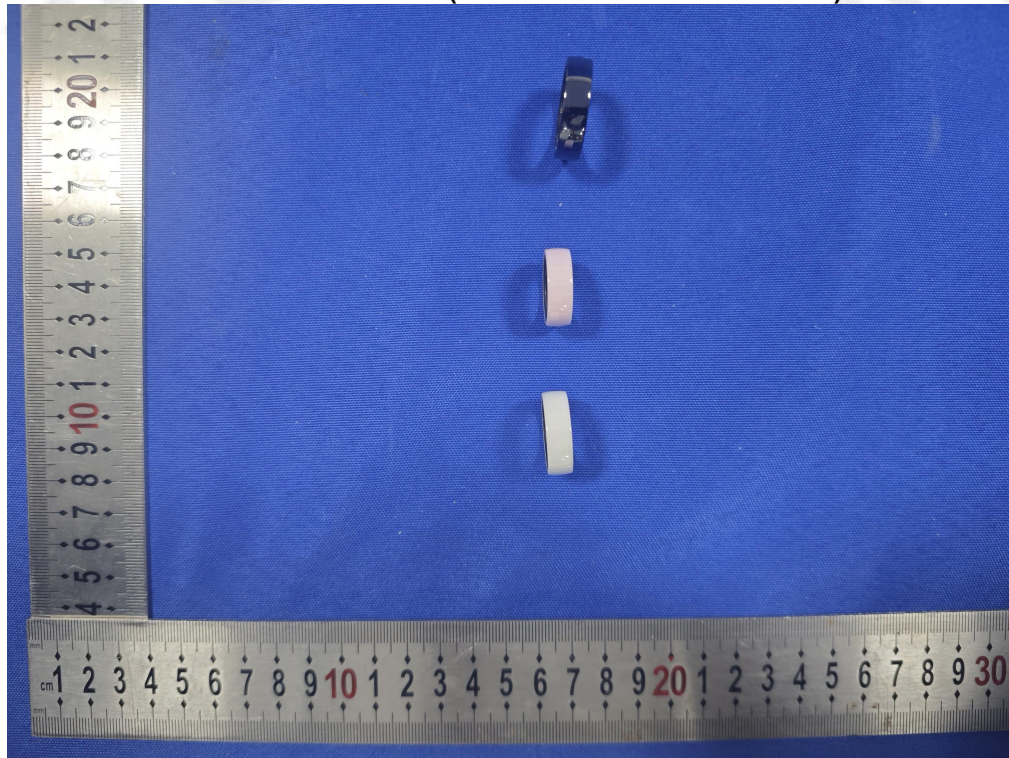


Photo 2 Before test view

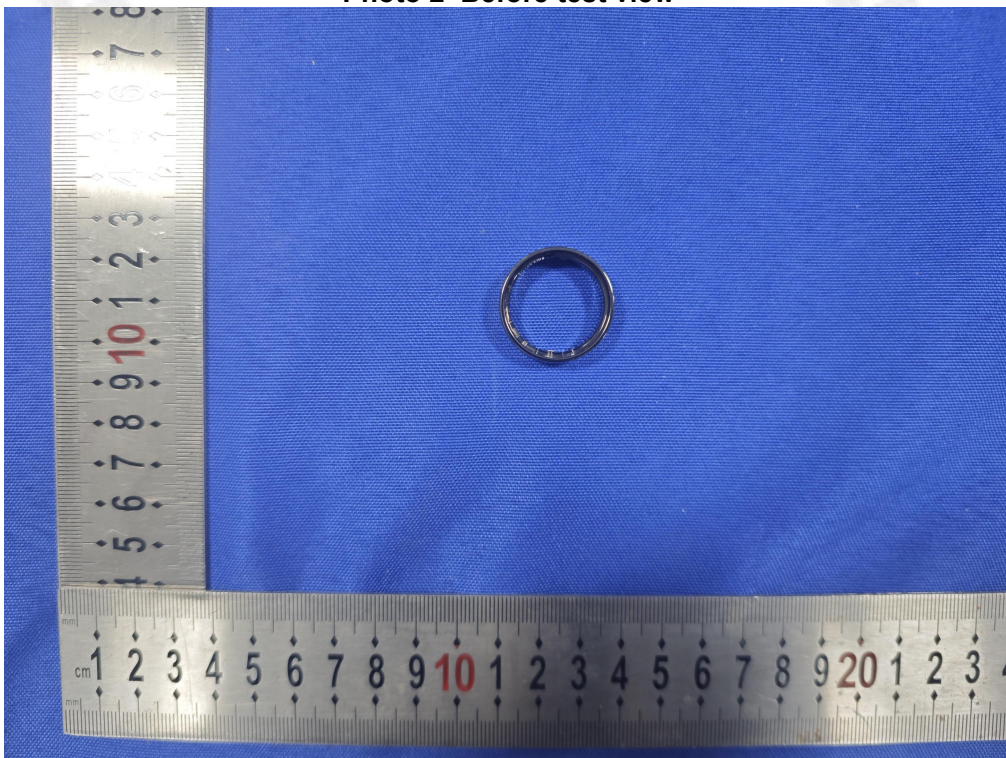


Photo document

Photo 3 Before test view

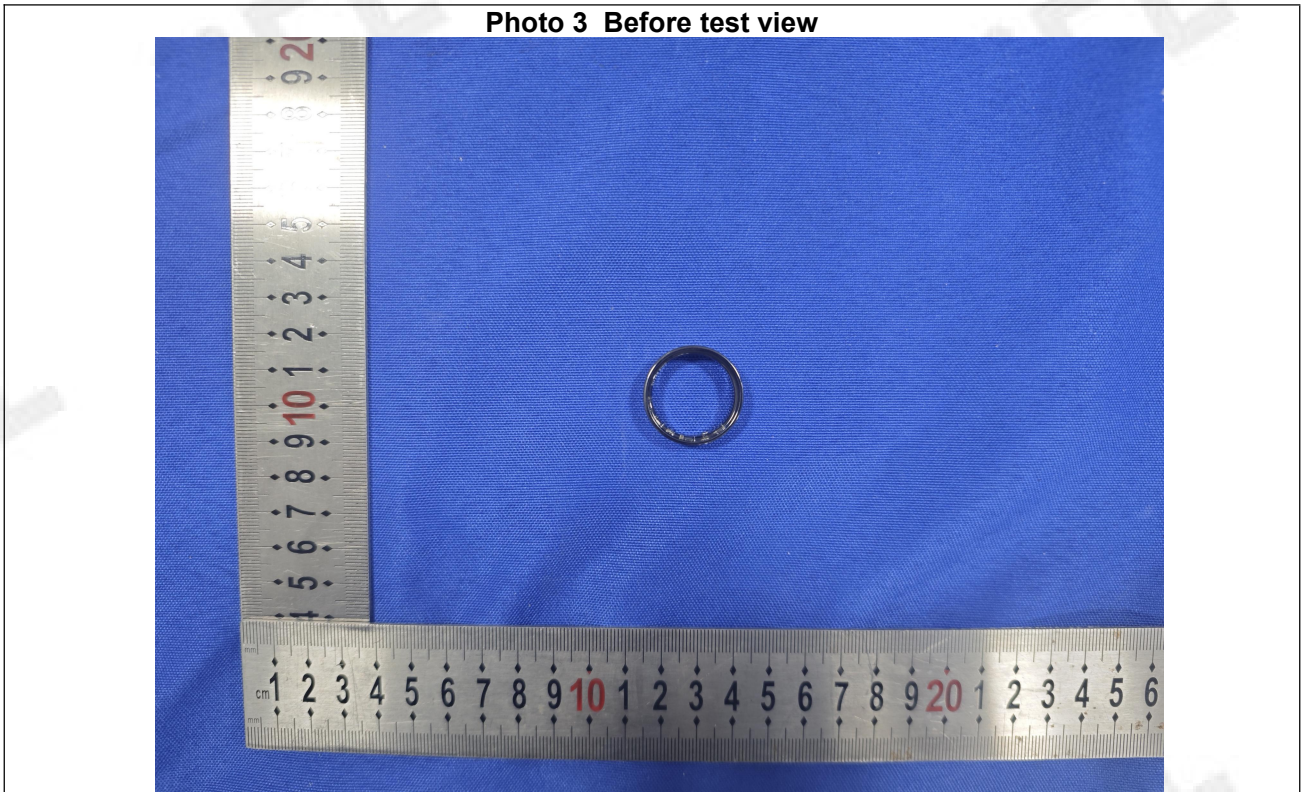


Photo 4 Side view

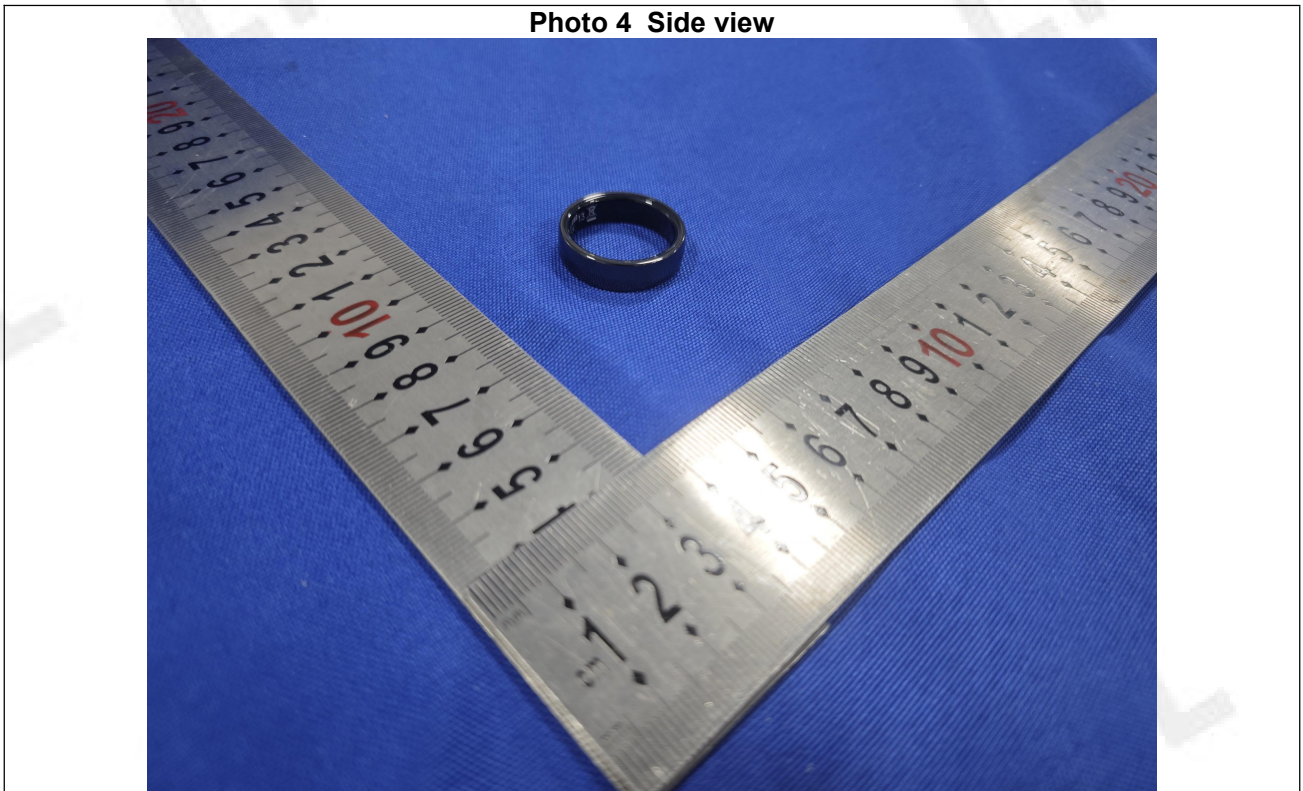


Photo document

Photo 5 Side view

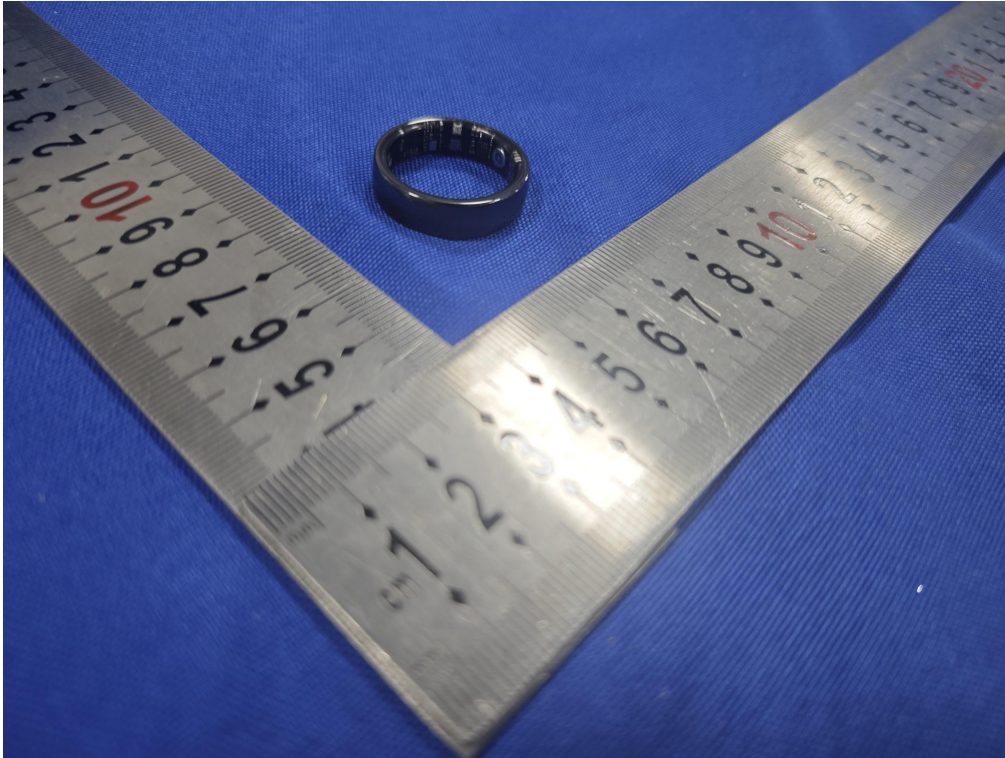


Photo 6 Before test view (IP6X)



Photo document

Photo 7 After the test view (IP6X)



Photo 8 In the test view (IP6X)

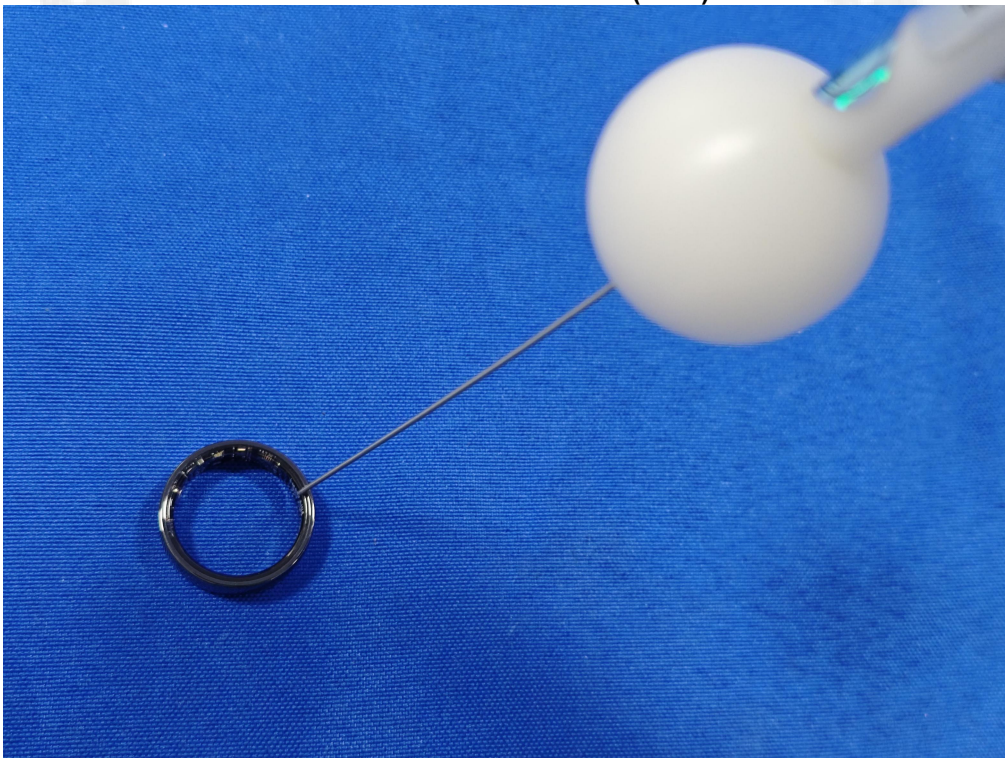


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Photo 9 Before test view (IPX8)



Photo 10 In the test view (IPX8)



Photo document

Photo 11 After test view

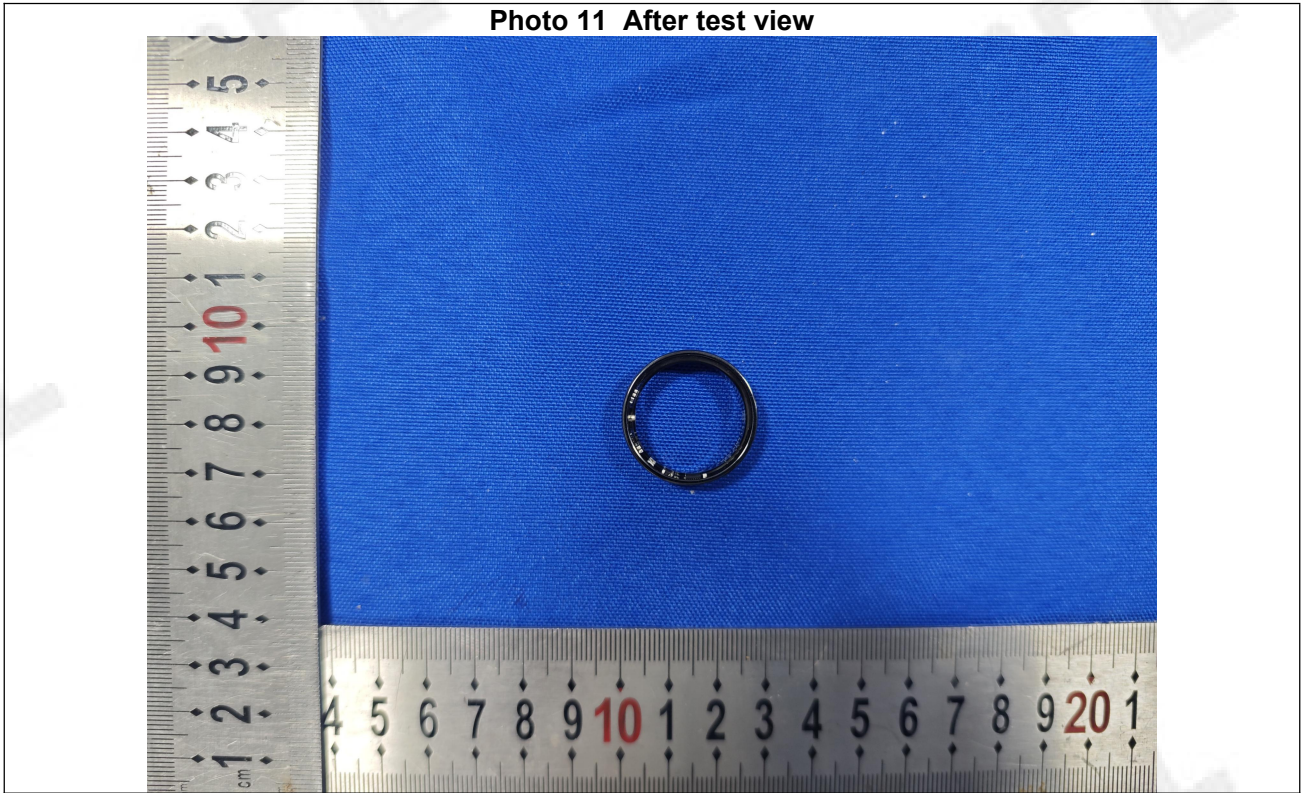


Photo 12 After test view



Photo document

Photo 13 After test view



Photo 14 After test view



Photo document

Photo 15 After test view



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