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TESTING
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.: CTL2405303062-IP

Tested by (name + signature): Adil wei

Supervised by (name + signature): Zero Yu

Approved by (name + signature): Ethan Chen

Date of issue: Jun. 06, 2024

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

Address: Zone A, 1st Floor, Warehouse 2, Baisha Logistics Company, No. 3011 Shahe West Road, Nanshan District, Shenzhen 518055

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 / Test 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: R02, R01, R03, R04, R05, R06, R07, R08, R09, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19, R20, R21, R22, R23, R24, R25, R26, R27, R28, R29, R30, R31, R32, R33, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R49, R50

Test result: Pass.

Summary of testing:**Testing location:**

Shenzhen CTL Testing Technology Co., Ltd.

Zone A, 1st Floor, Warehouse 2, Baisha Logistics Company, No. 3011 Shahe West Road, Nanshan District, Shenzhen 518055

Possible test case verdicts:

- test case does not apply to the test object..... : N (N/A)
- test object does meet the requirement..... : P (Pass)
- test object does not meet the requirement..... : F (Fail)

Testing..... :

Date of receipt of test item..... : Jun. 03, 2024

Date(s) of performance of tests..... : Jun. 03, 2024 to Jun. 05, 2024

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.

Model difference:

Models Name: R02, R01, R03, R04, R05, R06, R07, R08, R09, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19, R20, R21, R22, R23, R24, R25, R26, R27, R28, R29, R30, R31, R32, R33, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R49, R50 The difference between them is that the product model is all appearance mustache. The color and customer number are different: the internal structure, circuit principle, wiring of the PCB board of the product and all the key components related to safety and electromagnetic compatibility performance are exactly the same. The differences do not affect the safety and electromagnetic compatibility performance of the product
All tests were conducted on the representative model: R02.

Summary of testing and conclusion :

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 μm . and the nominal width of a gap between wires 75 μm .
- 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 (14/20) .
- 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: 22.5°C
- Temperature and humidity of laboratory environment: 20.0-25.0°C, 40.0-60.0%RH

1. Test Result:

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 Before test view

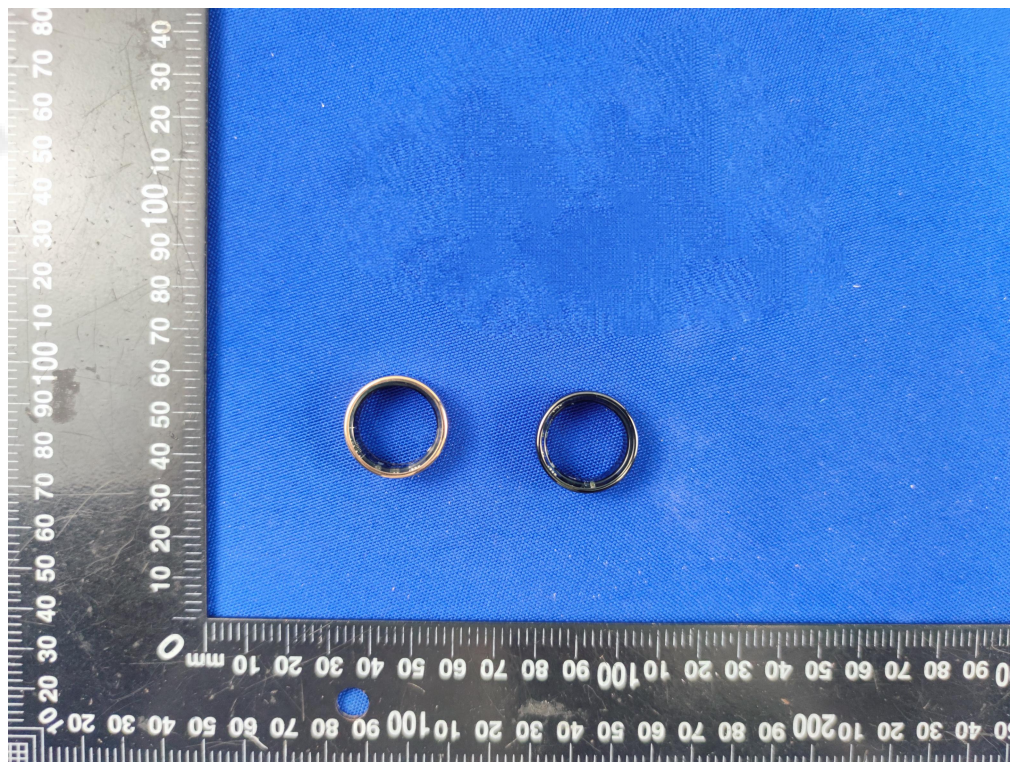


Photo 2 Before test view

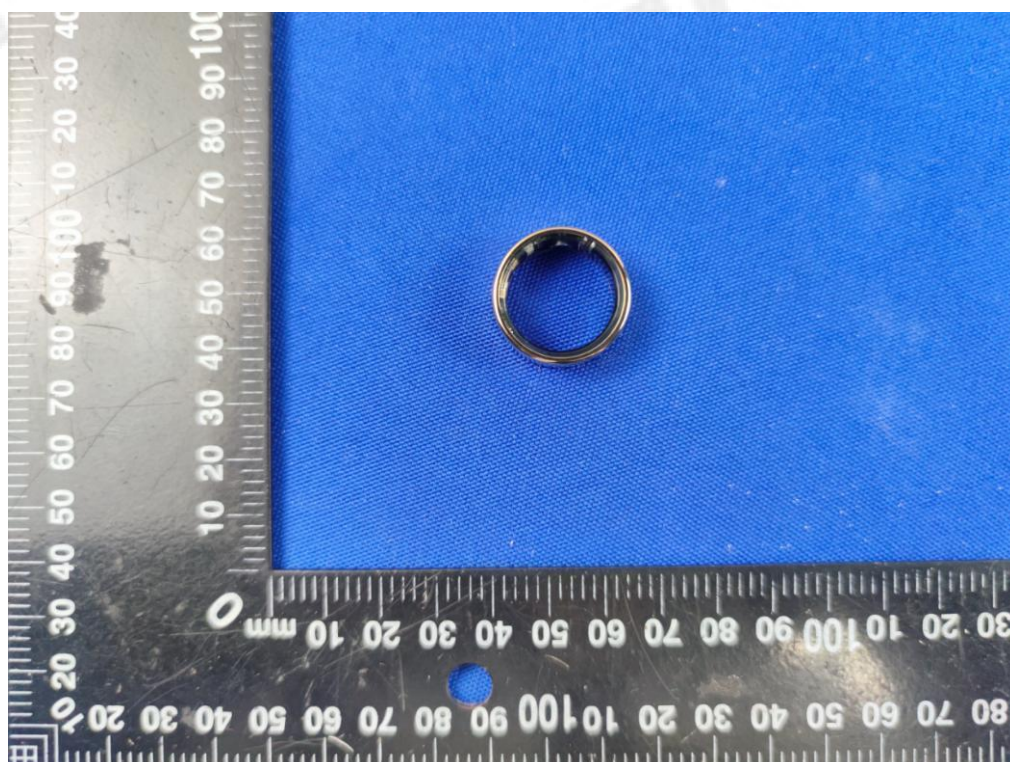


Photo 3 Side view

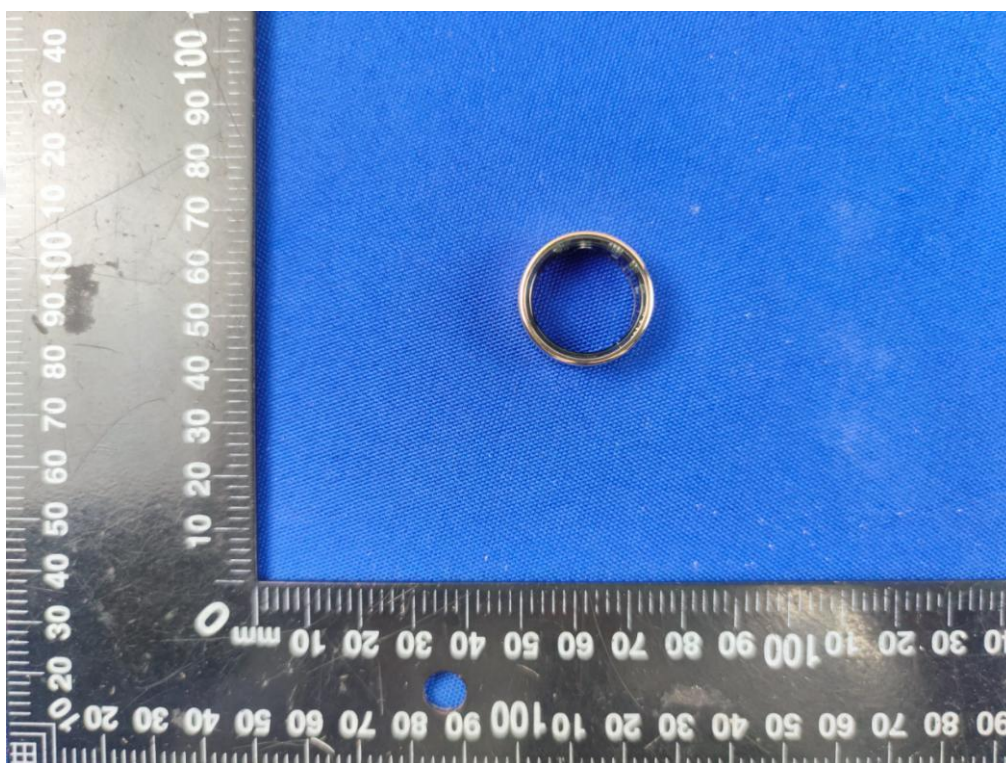


Photo 4 Side view

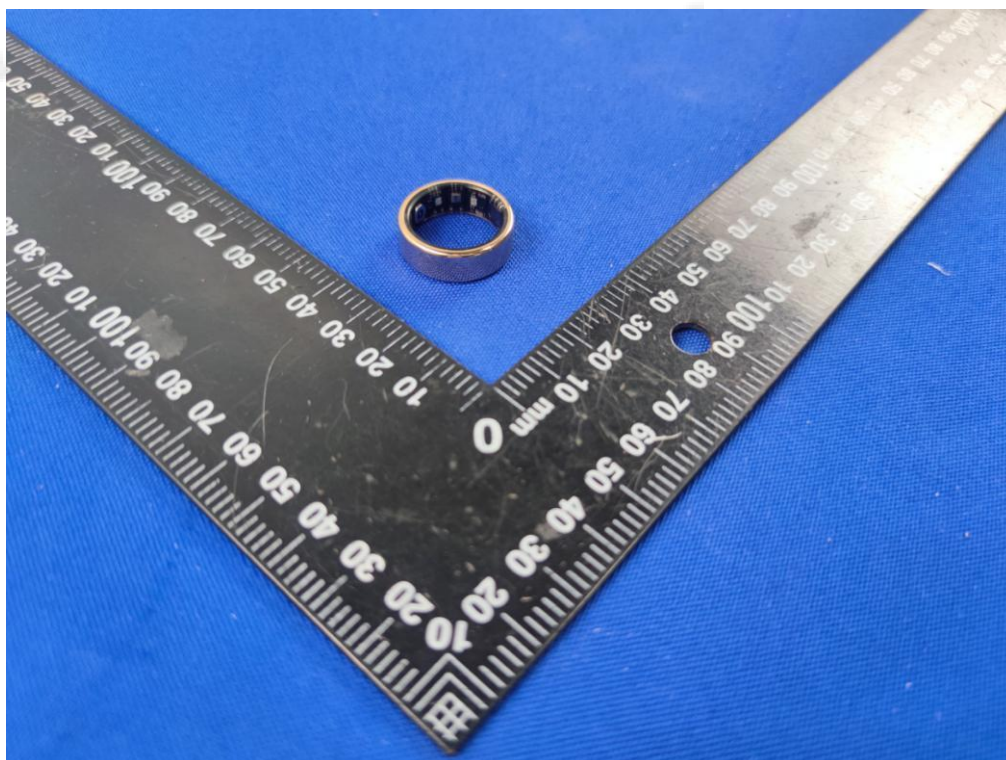


Photo 5 Before test view (IP6X)



Photo 6 After the test view (IP6X)

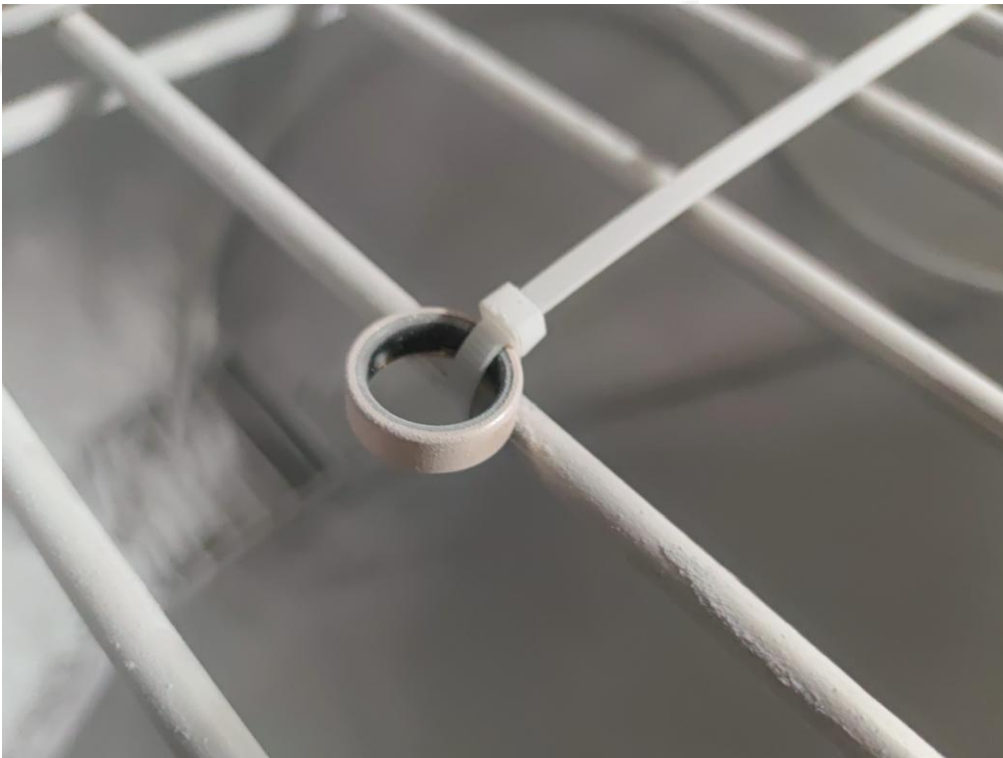


Photo 7 Before test view (IPX8)



Photo 8 Before test view (IPX8)



Photo 9 After test view



Photo 10 After test view



--- End of Report ---