

# TEST REPORT

**Report No.: 2501Y83066E**

Date: November 12, 2025

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**D-ROBOTICS HOLDING LIMITED**

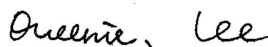
**SUITE 603 , 6/F LAWS COMM PLAZA 788 CHEUNG SHA WAN RD KLN HONG KONG**

Report on the submitted samples said to be:

Sample Description:	RDK S100 Camera Expansion Board
Style/Item No.:	ES1XC1Y
Brand:	D-Robotics
Sample Receiving Date:	October 27, 2025
Testing Period:	October 27, 2025 - November 07, 2025
Result:	<b>Please refer to next page(s).</b>

Signed for and on behalf of

BACL



Checked by: \_\_\_\_\_  
Queenie Lee



Approved by: \_\_\_\_\_  
Len Xie

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Summary of Test Result:

**TEST REQUEST**

**CONCLUSION**

A RoHS Directive 2011/65/EU and amendment directives (EU) 2015/863 on Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs & PBDEs, Phthalates (DBP, BBP, DEHP, DIBP) content

A.1 XRF screening test

Pass

A.2 Wet Chemical Testing

A.2.1 Chromium VI (Cr(VI)) Content

Pass

A.2.2 PBBs & PBDEs content

Pass

A.3 Phthalates (DBP, BBP, DEHP, DIBP) content

Pass

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**A RoHS Directive 2011/65/EU and amendment directives (EU) 2015/863 on Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs & PBDEs, Phthalates (DBP, BBP, DEHP, DIBP) content**

**A.1 XRF screening test**

Test method: IEC 62321-3-1:2013

Seq No.	Tested Part(s)	Result				
		Pb	Cd	Hg	Cr	Br
(1)*	Black plated silvery metal(big screw, PCB, camera expansion board)	BL	BL	BL	X	---
(2)	Black plated silvery metal(small screw, PCB, camera expansion board)	BL	BL	BL	BL	---
(3)*1	Coppery metal(pad, screw, PCB, camera expansion board)	OL (20342)	BL	BL	BL	---
(4)*1	Silvery metal(screw holder, PCB, camera expansion board)	OL (9028)	BL	BL	BL	---
(5)*	White printed black coated brown plastic with coppery metal(PCB, camera expansion board)	BL	BL	BL	BL	X
(6)	Silvery solder(SMT, PCB, camera expansion board)	BL	BL	BL	BL	---
(7)	Silvery solder(THT, PCB, camera expansion board)	BL	BL	BL	BL	---
(8)	Blue plastic(cover, serdes socket, PCB, camera expansion board)	BL	BL	BL	BL	BL
(9)	Silvery metal(holder, serdes socket, PCB, camera expansion board)	BL	BL	BL	BL	---
(10)	White plastic(pin holder, serdes socket, PCB, camera expansion board)	BL	BL	BL	BL	BL
(11)	Silvery metal(pin, serdes socket, PCB, camera expansion board)	BL	BL	BL	BL	---
(12)	Black plastic(cover, power socket, PCB, camera expansion board)	BL	BL	BL	BL	BL
(13)	Silvery metal(holder, power socket, PCB, camera expansion board)	BL	BL	BL	BL	---
(14)	Silvery metal(spring, power socket, PCB, camera expansion board)	BL	BL	BL	BL	---
(15)	Silvery metal(contact plate, power socket, PCB, camera expansion board)	BL	BL	BL	BL	---
(16)	Silvery metal(pin, power socket, PCB, camera expansion board)	BL	BL	BL	BL	---
(17)	Black plastic(cover, socket "CAM1, CAM2", PCB, camera expansion board)	BL	BL	BL	BL	BL
(18)	White plastic(cover, socket "CAM1, CAM2", PCB, camera expansion board)	BL	BL	BL	BL	BL
(19)	Silvery metal(holder, socket "CAM1, CAM2", PCB, camera expansion board)	BL	BL	BL	BL	---
(20)	Silvery metal(pin, socket "CAM1, CAM2", PCB, camera expansion board)	BL	BL	BL	BL	---
(21)	Black plastic(cover, plug, PCB, camera expansion board)	BL	BL	BL	BL	BL
(22)	Golden plated silvery metal(pin, plug, PCB, camera expansion board)	BL	BL	BL	BL	---
(23)	Yellow clear plastic with adhesive(tape, switch, PCB, camera expansion board)	BL	BL	BL	BL	BL
(24)	Black plastic(cover, switch, PCB, camera expansion board)	BL	BL	BL	BL	BL
(25)*	White plastic(slider, switch, PCB, camera expansion board)	BL	BL	BL	BL	X

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Seq No.	Tested Part(s)	Result				
		Pb	Cd	Hg	Cr	Br
(26)	Silvery metal(contact plate, switch, PCB, camera expansion board)	BL	BL	BL	BL	---
(27)	Silvery metal(pin, switch, PCB, camera expansion board)	BL	BL	BL	BL	---
(28)	Black body(maximum IC, PCB, camera expansion board)	BL	BL	BL	BL	BL
(29)	Black body(big IC, PCB, camera expansion board)	BL	BL	BL	BL	BL
(30)	Black body(medium IC, PCB, camera expansion board)	BL	BL	BL	BL	BL
(31)	Black body(small IC, PCB, camera expansion board)	BL	BL	BL	BL	BL
(32)	Black body(minimum IC, PCB, camera expansion board)	BL	BL	BL	BL	BL
(33)	Black body(SMD triode, PCB, camera expansion board)	BL	BL	BL	BL	BL
(34)	Black body(SMD diode, PCB, camera expansion board)	BL	BL	BL	BL	BL
(35)	Brown body(big SMD capacitor, PCB, camera expansion board)	BL	BL	BL	BL	BL
(36)	Brown body(medium SMD capacitor, PCB, camera expansion board)	BL	BL	BL	BL	BL
(37)	Brown body(small SMD capacitor, PCB, camera expansion board)	BL	BL	BL	BL	BL
(38)	Brown body(minimum SMD capacitor, PCB, camera expansion board)	BL	BL	BL	BL	BL
(39)	Black / white body(SMD resistor, PCB, camera expansion board)	BL	BL	BL	BL	BL
(40)	Golden / white body(LED, PCB, camera expansion board)	BL	BL	BL	BL	BL
(41)	Black body(maximum SMD inductor, PCB, camera expansion board)	BL	BL	BL	BL	BL
(42)	Black body(big SMD inductor, PCB, camera expansion board)	BL	BL	BL	BL	BL
(43)	Black body(medium SMD inductor, PCB, camera expansion board)	BL	BL	BL	BL	BL
(44)	Black body(small SMD inductor, PCB, camera expansion board)	BL	BL	BL	BL	BL
(45)	Black body(minimum SMD inductor, PCB, camera expansion board)	BL	BL	BL	BL	BL
(46)*	Grey body(SMD inductor, PCB, camera expansion board)	BL	BL	BL	X	BL
(47)	Silvery body(crystal, PCB, camera expansion board)	BL	BL	BL	BL	BL

Note:

--- = Not Applicable.

\* = Screening by XRF and detected by chemical method. The test result of chemical method please refer to next pages.

\*1 = According to the material declaration provided by the client, the sample of test No. 3,4 are exempted accordance with Annex III 6 (c) of directive 2011/65/EU. The exempt items of Annex III 6(c) of directive 2011/65/EU: Copper alloy containing up to 4% lead by weight.

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Remark:

i Result were obtained by XRF for primary screening, and further chemical testing by ICP (for Cd, Pb, Hg), UV-Vis (for Cr(VI)) and GC-MS (for PBBs, PBDEs) are recommended to be performed, if the concentration exceeds the below warning value according to IEC62321-3-1:2013.

Element	Unit	Polymers	Metal	Composite Material
Cd	mg/kg	$BL \leq 70 - 3\sigma < X < 130 + 3\sigma \leq OL$	$BL \leq 70 - 3\sigma < X < 130 + 3\sigma \leq OL$	$BL \leq 50 - 3\sigma < X < 150 + 3\sigma \leq OL$
Pb	mg/kg	$BL \leq 700 - 3\sigma < X < 1300 + 3\sigma \leq OL$	$BL \leq 700 - 3\sigma < X < 1300 + 3\sigma \leq OL$	$BL \leq 500 - 3\sigma < X < 1500 + 3\sigma \leq OL$
Hg	mg/kg	$BL \leq 700 - 3\sigma < X < 1300 + 3\sigma \leq OL$	$BL \leq 700 - 3\sigma < X < 1300 + 3\sigma \leq OL$	$BL \leq 500 - 3\sigma < X < 1500 + 3\sigma \leq OL$
Cr	mg/kg	$BL \leq 700 - 3\sigma < X$	$BL \leq 700 - 3\sigma < X$	$BL \leq 500 - 3\sigma < X$
Br	mg/kg	$BL \leq 300 - 3\sigma < X$	--	$BL \leq 250 - 3\sigma < X$

Note:

BL = Below Limit

OL = Over Limit

IN/X = Inconclusive (questionable, need further chemical analysis)

ii The XRF screening test for RoHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition.

iii The maximum permissible limit is quoted from the RoHS directive 2011/65/EU:

Restricted Substances	Maximum Concentration Value (mg/kg) (by weight in homogenous materials)
Cadmium (Cd)	100
Lead (Pb)	1000
Mercury (Hg)	1000
Hexavalent Chromium (Cr(VI))	1000
Polybrominated biphenyls (PBBs)	1000
Polybrominated diphenylethers (PBDEs)	1000

Disclaimers:

This XRF Screening report is for reference purposes only. The applicant shall make its/his/her own judgment as to whether the information provided in this XRF screening report is sufficient for its/his/her purposes.

The result shown in this XRF screening report will differ based on various factors, including but not limited to, the sample size, thickness, area, surface flatness, equipment parameters and matrix effect (e.g. plastic, rubber, metal, glass, ceramic etc.). Further wet chemical pre-treatment with relevant chemical equipment analysis are required to obtain quantitative data.

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## A.2 Wet Chemical Testing

### A.2.1 Chromium VI (Cr(VI)) Content

#### Chromium VI (Cr(VI)) Content(In Non-metal)

Test method: IEC 62321-7-2:2017

Item	Unit	MDL	Result		Limit
			(46)		
hexavalent chromium(Cr(VI))	mg/kg	10	N.D.		1000
<b>Conclusion</b>	/	/	<b>Pass</b>		/

#### Chromium VI (Cr(VI)) Content(In metal)

Test method: IEC 62321-7-1:2015

Item	Unit	MDL	Result		Limit
			(1)		
hexavalent chromium(Cr(VI))	µg/cm <sup>2</sup>	0.10	N.D.		See Remark
<b>Conclusion</b>	/	/	<b>Pass</b>		/

Limit Remark:

- The sample is positive for CrVI if the CrVI concentration is greater than 0.13µg/cm<sup>2</sup>. The sample coating is considered to contain CrVI
  - The sample is negative for CrVI if CrVI is ND (concentration less than 0.10µg/cm<sup>2</sup>). The coating is considered a non-CrVI based coating
  - The result between 0.10µg/cm<sup>2</sup> and 0.13µg/cm<sup>2</sup> is considered to be inconclusive -unavoidable coating variations may influence the determination
- For corrosion protection coatings on metals: Information on storage conditions and production date of the tested sample is unavailable and thus results of Cr(VI) represent status of the sample at the time of testing.

### A.2.2 PBBs & PBDEs content

Test method: IEC 62321-6:2015

Item	Unit	MDL	Result		Limit
			(5)	(25)	
Monobromobiphenyl (MonoBB)	mg/kg	50	N.D.	N.D.	-
Dibromobiphenyl(DiBB)	mg/kg	50	N.D.	N.D.	-
Tribromobiphenyl(TriBB)	mg/kg	50	N.D.	N.D.	-
Tetrabromobiphenyl(TetraBB)	mg/kg	50	N.D.	N.D.	-
Pentabromobiphenyl(PentaBB)	mg/kg	50	N.D.	N.D.	-
Hexabromobiphenyl(HexaBB)	mg/kg	50	N.D.	N.D.	-
Heptabromobiphenyl (HeptaBB)	mg/kg	50	N.D.	N.D.	-
Octabromobiphenyl(OctaBB)	mg/kg	50	N.D.	N.D.	-

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Item	Unit	MDL	Result		Limit
			(5)	(25)	
Nonabromobiphenyl(NonaBB)	mg/kg	50	N.D.	N.D.	-
Decabromobiphenyl(DecaBB)	mg/kg	50	N.D.	N.D.	-
Monobromodiphenyl ether (MonoBDE)	mg/kg	50	N.D.	N.D.	-
Dibromodiphenyl ether (DiBDE)	mg/kg	50	N.D.	N.D.	-
Tribromodiphenyl ether (TriBDE)	mg/kg	50	N.D.	N.D.	-
Tetrabromodiphenyl ether (TetraBDE)	mg/kg	50	N.D.	N.D.	-
Pentabromodiphenyl ether (PentaBDE)	mg/kg	50	N.D.	N.D.	-
Hexabromodiphenyl ether (HexaBDE)	mg/kg	50	N.D.	N.D.	-
Heptabromodiphenyl ether (HeptaBDE)	mg/kg	50	N.D.	N.D.	-
Octabromodiphenyl ether (OctaBDE)	mg/kg	50	N.D.	N.D.	-
Nonabromodiphenyl ether (NonaBDE)	mg/kg	50	N.D.	N.D.	-
Decabromodiphenyl ether (DecaBDE)	mg/kg	50	N.D.	N.D.	-
sum of MonoBDE,DiBDE,TriBDE,TetraBDE,PentaBDE,HexaBDE,HeptaBDE,OctaBDE,NonaBDE,DecaBDE	mg/kg	-	N.D.	N.D.	1000
sum of MonoBB,DiBB,TriBB,TetraBB,PentaBB,HexaBB,HeptaBB,OctaBB,NonaBB,DecaBB	mg/kg	-	N.D.	N.D.	1000
<b>Conclusion</b>	/	/	<b>Pass</b>	<b>Pass</b>	/

### A.3 Phthalates(DBP, BBP, DEHP, DIBP)content

Test method: IEC 62321-8:2017

Item	Unit	MDL	Result						Limit
			(5)+(28)+(29)	(8)+(24)	(10)+(18)+(25)	(12)+(17)+(21)	(23)	(30)+(31)+(32)	
Dibutyl Phthalate(DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000

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Item	Unit	MDL	Result						Limit
			(5)+(28)+(29)	(8)+(24)	(10)+(18)+(25)	(12)+(17)+(21)	(23)	(30)+(31)+(32)	
Benzyl Butyl Phthalate(BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
<b>Conclusion</b>	/	/	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	/

Item	Unit	MDL	Result					Limit
			(33)+(34)+(35)	(36)+(37)+(38)	(39)+(40)+(41)	(42)+(43)+(44)	(45)+(46)+(47)	
Dibutyl Phthalate(DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Benzyl Butyl Phthalate(BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	1000
<b>Conclusion</b>	/	/	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	/

Note:

- N.D.= Not Detected or less than MDL
- MDL = Method Detection Limit
- "+" = Composite testing.
- The Result less than MDL are not taken into account while calculating the sum contents.

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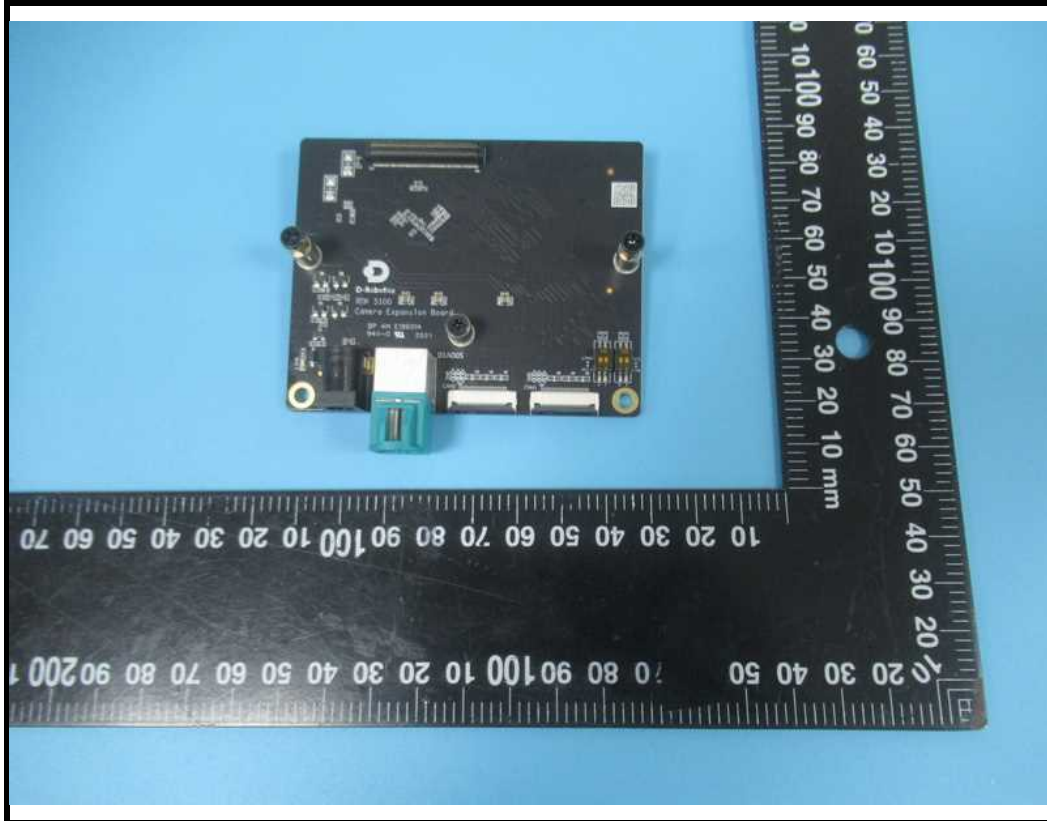
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Photograph of Sample



BACL authenticate the photo on original report only

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Statement:

- 1.This report cannot be reproduced except in full, without prior written approval of the Company.
- 2.Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
- 3.This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.
- 4.Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.
- 5.The information which provided by the applicant, such as sample description, sample name, material component, style/item No. , P.O. No. , manufacturer, age phase, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report.
- 6.The test samples were in good condition before testing.

\*\*\* End of Report \*\*\*