



Test Report

Report No.: PTC25032012704C-EN01

Issue Date: Apr. 01, 2025

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Applicant: HANGZHOU YINFU TECHNOLOGY CO.,LTD

Address: Room 1006, Building 7, Xingyun Kunpeng Center, No. 112, Jinjiadu Road, Liangzhu Street, Yuhang District, Hangzhou City, Zhejiang , China

The following merchandise was (were) submitted and identified by client as:

Sample Name: Network cameras

Test Sample Model: IPC-EF5812M-AS-L

Other Sample Model: Please refer to next page

Manufacturer: HANGZHOU YINFU TECHNOLOGY CO.,LTD

Address: Room 1006, Building 7, Xingyun Kunpeng Center, No. 112, Jinjiadu Road, Liangzhu Street, Yuhang District, Hangzhou City, Zhejiang , China

Sample Received Date: Mar. 25, 2025

Completed Date: Apr. 01, 2025

Test Requested: As specified by client, with reference to RoHS Directive 2011/65/EU and its subsequent amendments regulation EU No.2015/863.(Lead (Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr⁶⁺), PBBs and PBDEs, Phthalates (DBP, BBP,DEHP,DIBP))

Conclusion(s): According to the test results of below test parameters, the tested materials of submitted samples complied with the requirements for RoHS Directive 2011/65/EU and its subsequent amendments regulation EU No.2015/863.

Test Result(s) and Test Method(s):Please refer to next page(s).

Prepared by: Anne

Checked by:Crystal

Approved by: Miya



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Other Sample Model:

IPC-BF52XXX-XXX, IPC-BF52XXX-XXX-L, IPC-BF52XXX-XXX-PV, IPC-BF54XXX-XXX,
IPC-BF54XXX-XXX-L, IPC-BF54XXX-XXX-PV, IPC-BF55XXX-XXX, IPC-BF55XXX-XXX-L,
IPC-BF55XXX-XXX-PV, IPC-BF56XXX-XXX, IPC-BF56XXX-XXX-L, IPC-BF56XXX-XXX-PV,
IPC-BF58XXX-XXX, IPC-BF58XXX-XXX-L, IPC-BF58XXX-XXX-PV, IPC-DF52XXX-XXX,
IPC-DF52XXX-XXX-L, IPC-DF52XXX-XXX-PV, IPC-DF54XXX-XXX, IPC-DF54XXX-XXX-L,
IPC-DF54XXX-XXX-PV, IPC-DF55XXX-XXX, IPC-DF55XXX-XXX-L, IPC-DF55XXX-XXX-PV,
IPC-DF56XXX-XXX, IPC-DF56XXX-XXX-L, IPC-DF56XXX-XXX-PV, IPC-DF58XXX-XXX,
IPC-DF58XXX-XXX-L, IPC-DF58XXX-XXX-PV, IPC-EF52XXX-XXX, IPC-EF52XXX-XXX-L,
IPC-EF52XXX-XXX-PV, IPC-EF54XXX-XXX, IPC-EF54XXX-XXX-L, IPC-EF54XXX-XXX-PV,
IPC-EF55XXX-XXX, IPC-EF55XXX-XXX-L, IPC-EF55XXX-XXX-PV, IPC-EF56XXX-XXX,
IPC-EF56XXX-XXX-L, IPC-EF56XXX-XXX-PV, IPC-EF58XXX-XXX, IPC-EF58XXX-XXX-L,
IPC-EF58XXX-XXX-PV, IPC-BF52XXX-XXX-L-B, IPC-BF52XXX-XXX-PV-B, IPC-BF54XXX-XXX-L-B,
IPC-BF54XXX-XXX-PV-B, IPC-BF55XXX-XXX-L-B, IPC-BF55XXX-XXX-PV-B, IPC-BF56XXX-XXX-L-B,
IPC-BF56XXX-XXX-PV-B, IPC-BF58XXX-XXX-L-B, IPC-BF58XXX-XXX-PV-B, IPC-DF52XXX-XXX-L-B,
IPC-DF52XXX-XXX-PV-B, IPC-DF54XXX-XXX-L-B, IPC-DF54XXX-XXX-PV-B, IPC-DF55XXX-XXX-L-B,
IPC-DF55XXX-XXX-PV-B, IPC-DF56XXX-XXX-L-B, IPC-DF56XXX-XXX-PV-B, IPC-DF58XXX-XXX-L-B,
IPC-DF58XXX-XXX-PV-B, IPC-EF52XXX-XXX-L-B, IPC-EF52XXX-XXX-PV-B, IPC-EF54XXX-XXX-L-B,
IPC-EF54XXX-XXX-PV-B, IPC-EF55XXX-XXX-L-B, IPC-EF55XXX-XXX-PV-B, IPC-EF56XXX-XXX-L-B,
IPC-EF56XXX-XXX-PV-B, IPC-EF58XXX-XXX-L-B, IPC-EF58XXX-XXX-PV-B

Test Result(s) and Test Method(s):Please refer to next page(s).

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Test Result(s):

1.1) RoHS Directive 2011/65/EU -(Lead (Pb)/Cadmium(Cd)/Mercury(Hg)/Hexavalent Chromium(Cr⁶⁺)/PBBs/PBDEs)

Test Method: IEC 62321-3-1: 2013, IEC 62321-6:2015, analyzed by EDXRF & GC-MS .

No.	Materials Description	EDXRF Result(s) (mg/kg)					Chemical Result (mg/kg)	Conclusion
		Pb	Cd	Hg	Cr	Br		
1	Silver metal(shell)	BL	BL	BL	BL	--	--	PASS
2	Silver metal with white coating (bracket)	BL	BL	BL	BL	--	--	PASS
3	White soft plastic (foot pad)	BL	BL	BL	BL	BL	--	PASS
4	Black plastic(cover)	BL	BL	BL	BL	BL	--	PASS
5	Transparent glass (camera)	BL	BL	BL	BL	BL	--	PASS
6	White soft plastic (thick wire jacket)	BL	BL	BL	BL	BL	--	PASS
7	White soft plastic (magnet ring shell)	BL	BL	BL	BL	BL	--	PASS
8	Bright white soft plastic (wire jacket)	BL	BL	BL	BL	BL	--	PASS
9	White soft plastic with black printed (wire jacket)	BL	BL	BL	BL	BL	--	PASS
10	Silver metal(bracket)	BL	BL	BL	BL	--	--	PASS
11	Silver metal (screw)	BL	BL	BL	BL	--	--	PASS
12	Silver metal with black coating (screw)	BL	BL	BL	BL	--	--	PASS
13	White glue(buffer pad)	BL	BL	BL	BL	BL	--	PASS
14	Black PCB (NT98528-MAIN-AS-VO1-R B PCB)	BL	BL	BL	BL	IN	PBBs:N.D. PBDEs:N.D.	PASS
15	Black body(integrated circuit)	BL	BL	BL	BL	BL	--	PASS
16	Black body(diode)	BL	BL	BL	BL	BL	--	PASS
17	Black body(audion)	BL	BL	BL	BL	BL	--	PASS
18	Beige plastic(terminal)	BL	BL	BL	BL	BL	--	PASS
19	Black FPC (FPC-45PIN-B-V010RA)	BL	BL	BL	BL	BL	--	PASS

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No.	Materials Description	EDXRF Result(s) (mg/kg)					Chemical Result (mg/kg)	Conclusion
		Pb	Cd	Hg	Cr	Br		
20	Black PCB (SCB50SL-CB-V01 -BD PCB)	BL	BL	BL	BL	IN	PBBs:N.D. PBDEs:N.D.	PASS

- Note:**
1. mg/kg = milligram per kilogram (ppm).
 2. N.D. = Not Detected
 3. The result are obtained by EDXRF for primary screening, if the result exceeds the below limit (BL), and further chemical testing.
 4. For EDXRF screening, the result(s) of Cr VI was (were) reported as total chromium and the result(s) of PBBs and PBDEs was (were) reported as total bromine.

Screening limits in mg/kg for regulated elements in various matrices

Elements	Polymer	Metal	Composite Materials
Pb	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Cd	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$LOD < X < (150+3\sigma) \leq OL$
Hg	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Cr	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$
Br	$BL \leq (300-3\sigma) < X$	--	$BL \leq (250-3\sigma) < X$

BL = Below Limit, OL = Over Limit, IN = Inconclusive, LOD = Limit of Detection

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Chemical Testing - Detection Limit & 2011/65/EU Limit:

Name of Chemicals	Method Detection Limit (mg/kg)	2011/65/EU Limit (mg/kg)
Lead (Pb)	5	1000
Cadmium (Cd)	5	100
Mercury (Hg)	5	1000
Chromium VI (Cr VI)	Non-metal: 5 Metal: Negative	Non-metal: 1000 Metal: Negative
Polybromobiphenyls (PBBs) -Bromobiphenyl (MonoBB) -Dibromobiphenyl (DiBB) -Tribromobiphenyl (TriBB) -Tetrabromobiphenyl (TetraBB) -Pentabromobiphenyl (PentaBB) -Hexabromobiphenyl (HexaBB) -Heptabromobiphenyl (HeptaBB) -Octabromobiphenyl (OctaBB) -Nonabromobiphenyl (NonaBB) -Decabromobiphenyl (DecaBB)	Each 5	Sum: 1 000
Polybromodiphenyl ethers (PBDEs) -Bromodiphenyl ether (MonoBDE) -Dibromodiphenyl ether (DiBDE) -Tribromodiphenyl ether (TriBDE) -Tetrabromodiphenyl ether (TetraBDE) -Pentabromodiphenyl ether (PentaBDE) -Hexabromodiphenyl ether (HexaBDE) -Heptabromodiphenyl ether (HeptaBDE) -Octabromodiphenyl ether (OctaBDE) -Nonabromodiphenyl ether (NonaBDE) -Decabromodiphenyl ether (DecaBDE)	Each 5	Sum: 1 000

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Test Result(s):

1.2) RoHS Directive 2011/65/EU and its subsequent amendments regulation EU No.2015/863 - (Phthalates DIBP,DBP, BBP, DEHP)

Method: IEC 62321-8: 2017, analyzed by Gas Chromatograph-Mass Spectrometry (GC-MS).

Substances	DBP	BBP	DEHP	DIBP	Conclusion
CAS No.	84-74-2	85-68-7	117-81-7	84-69-5	
Limit(s) (mg/kg)	1000	1000	1000	1000	
MDL (mg/kg)	50	50	50	50	
Material No.	Result (mg/kg)				
3+4+6	N.D.	N.D.	N.D.	N.D.	PASS
7+13+5	N.D.	N.D.	N.D.	N.D.	PASS
8+9+18	N.D.	N.D.	N.D.	N.D.	PASS
14+20+15	N.D.	N.D.	N.D.	N.D.	PASS
19+16+17	N.D.	N.D.	N.D.	N.D.	PASS

- Note:**
1. mg/kg = milligram per kilogram (ppm).
 2. N.D. = Not Detected (< MDL).
 3. MDL = Method Detection Limit.

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Test Material List

The following materials apply only to the samples submitted for phthalates testing.

Material No.	Description (Location)
3	White soft plastic (foot pad)
4	Black plastic(cover)
5	Transparent glass (camera)
6	White soft plastic (thick wire jacket)
7	White soft plastic (magnet ring shell)
8	Bright white soft plastic (wire jacket)
9	White soft plastic with black printed (wire jacket)
13	White glue(buffer pad)
14	Black PCB (NT98528-MAIN-AS-VO1-RB PCB)
15	Black body(integrated circuit)
16	Black body(diode)
17	Black body(audion)
18	Beige plastic(terminal)
19	Black FPC (FPC-45PIN-B-V010RA)
20	Black PCB (SCB50SL-CB-V01 -BD PCB)

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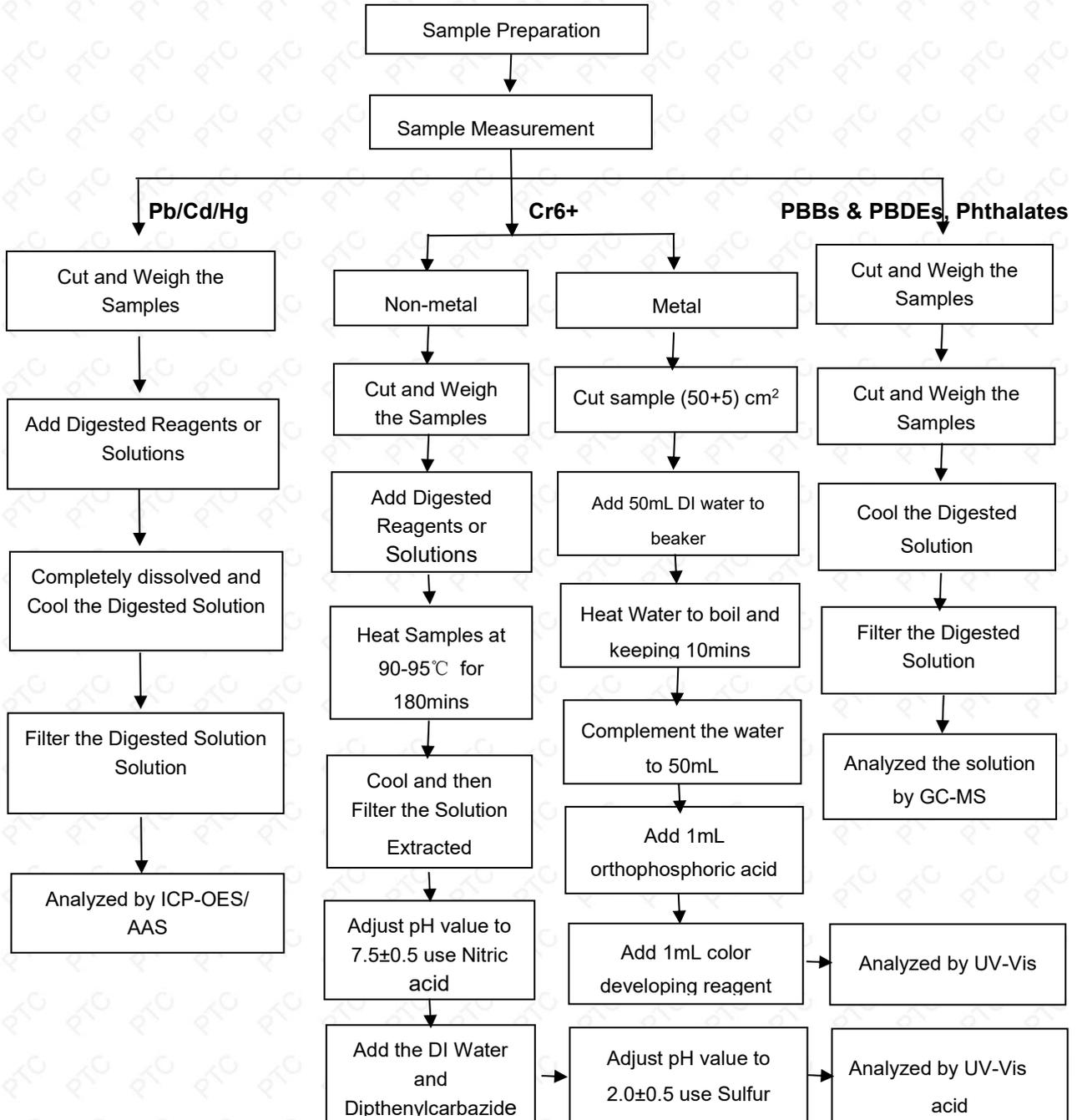
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Pb/Cd/Hg/Cr6+/PBBs/PBDEs , Phthalates Testing Flow Chart



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Photo(s) of Sample:



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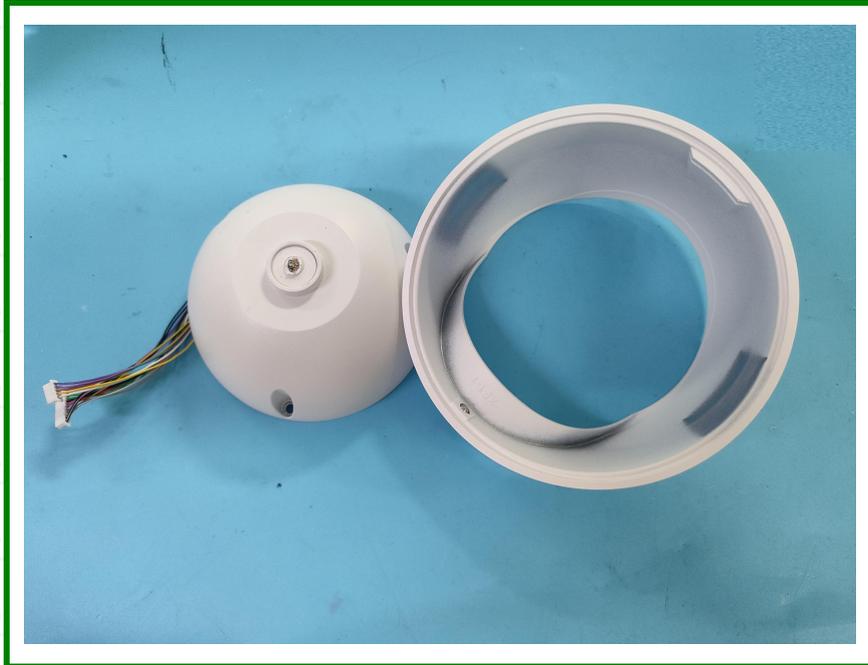


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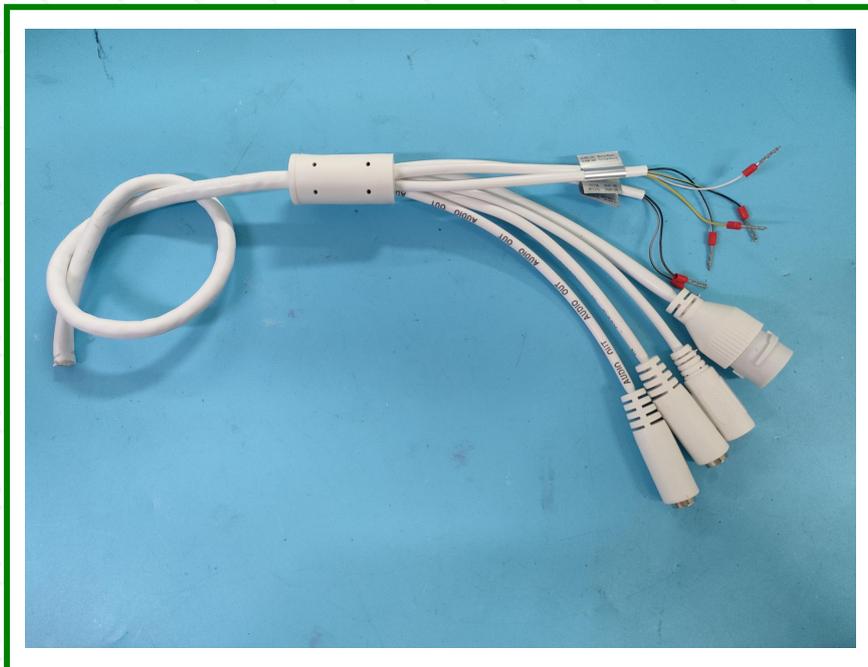


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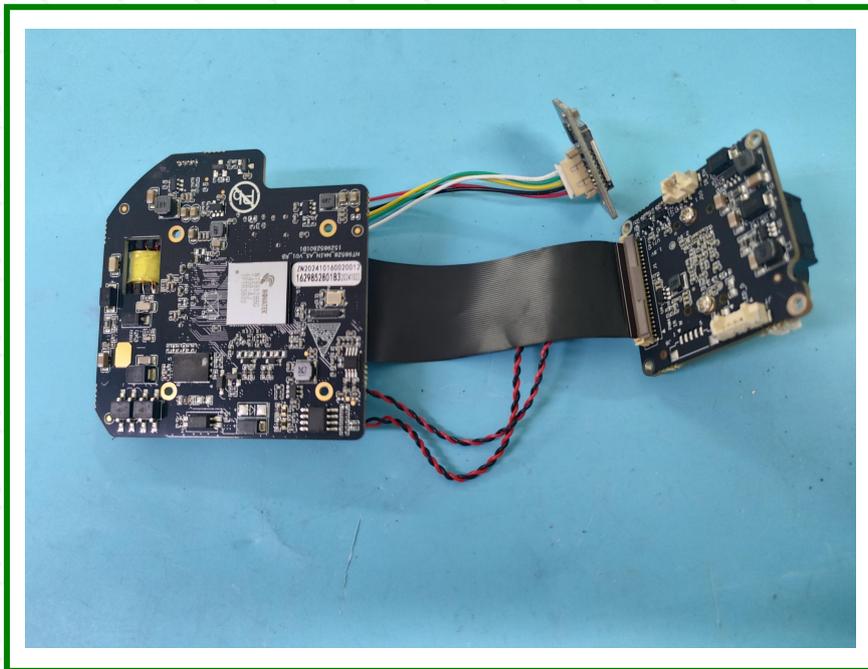
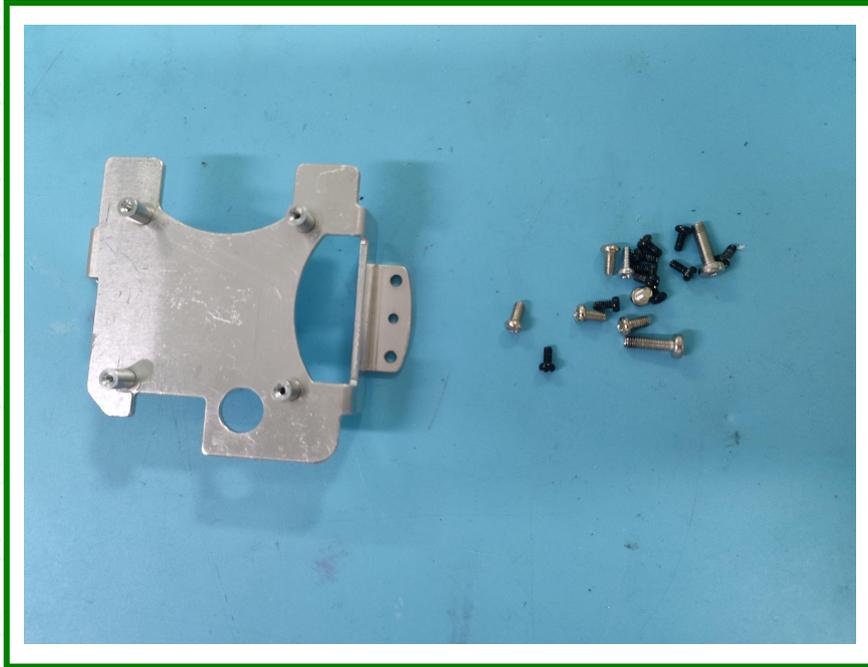


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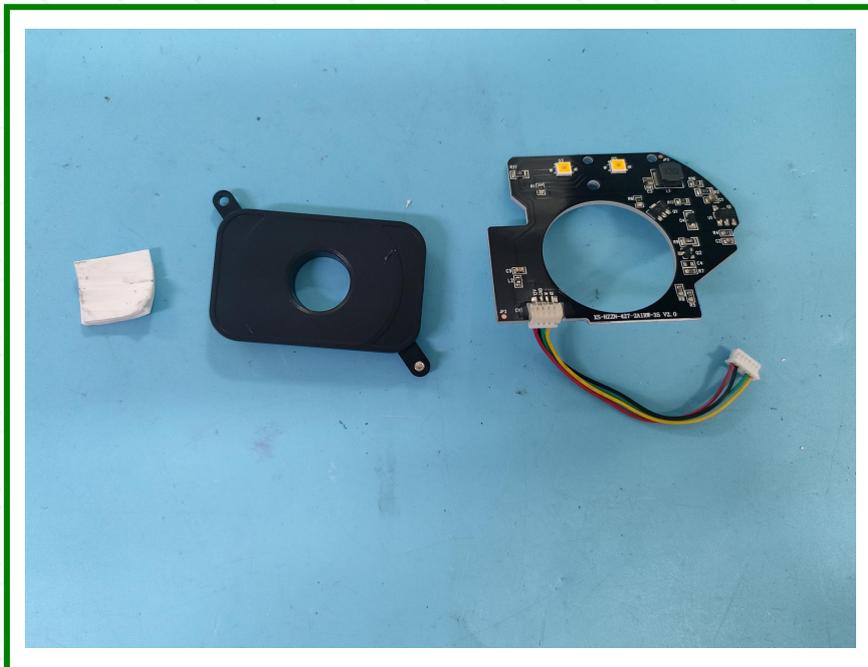
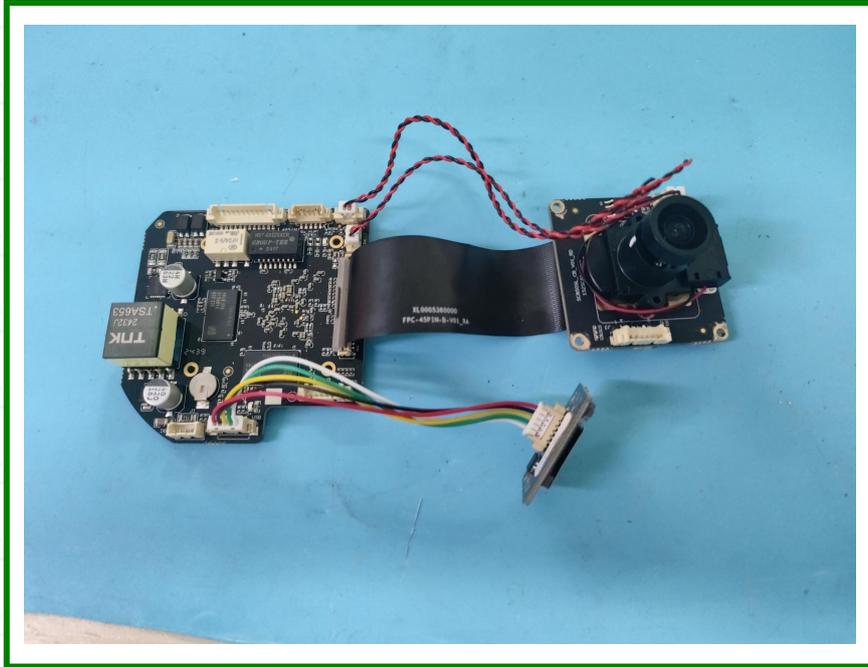


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