Test report No : NICERD220930.0097

WEEE TEST REPORT

European Directive 2012/19/EU

Evaluation of WEEE Requirements for Electrical and Electronic Equipment

Test report No……..... : NICERD220930.0097

Date of receipt …….: Sep 30, 2022

Date of issue ……: Nov 17, 2022

Test of period ……: Sep 30 ~ Nov 16, 2022

Applicant's name ……: Surema ID Inc.

Address……. : 1207, 37, Sagimakgol-ro 62beon-gil, Jungwon-gu, Seongnam-si, Gyeonggi-do, Republic of Korea

Manufacturer's name ….. : Same applicant.

Address……. : Same applicant.

Product name ……..…… : RealPass-N

Basic Model……..……: RP-N

Multiple Model(s)……..: RealPass-NB, RealPass-N, RP-NB, RPN-B, RPN-F, RPN-J

Test Specifications :

Directive…… : WEEE Directive 2012/19/EU, Article 11 - Recovery targets

Test Standard(s)……: IEC/TR 62635 : 2012

Test Laboratory……: NICE Certification Co., Ltd.

Address……. : 3F, 46, Gunpocheomdansaneop 2-ro, Gunpo-si, Gyeonggi-do, Republic of Korea

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Also this publication represent for the evaluation results of the issued test item only - any type of EEE

The evaluation results means only the tested item is evaluated with recovery requirement of the WEEE Directive according to the evaluation procedures which is described in this publication.

Approved by :

Technical Manager : Kyung-Jun Choi

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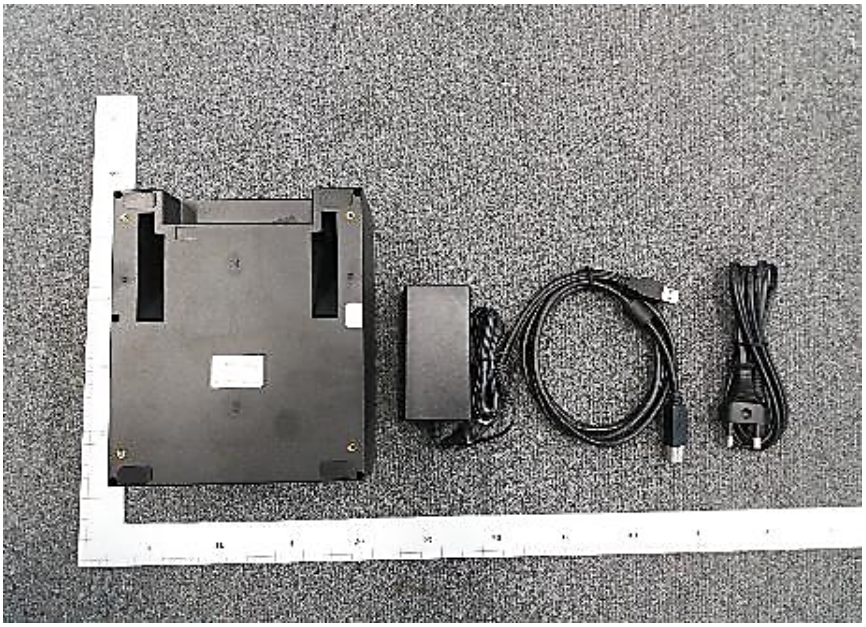
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1. General product information



Front view



Rear view

1. General product information

Product Category according to Annex Ⅲ of 2012/19/EU		
Type of Category	: Category 6. Small IT and telecommunications equipment (no external dimension more than 50 cm)	
Total weight (g)	: 1340 g	
Connection technique	: ► Screw ► Bonding, Glue, Adhesive ► Soldering ► Cable connector	► Rotary, Twist ► Joints – Molding, Put in etc. ► Welding ► Others
Disassembly tools	: ► Screw driver ► Long nose pliers ► Hand, Awl	► Spanner, wrench ► Cutting knife ► Cutting pliers ► Jig tools (Special)
Disassembly time (min / sec)	: 191 sec	
Product disassembly assessment	: See 3 Recycling and recovery rate of calculation table	
Recycling rate (%)	: 48.5 %	
Recovery rate (%)	: 56.6 %	

*** Product Remark**

- NICE Certification Co., Ltd. tested the RealStamp-N was selected by applicant.
- The model RP-N is the basic model that was tested.
- The multi models are identical to the basic model, except that the model name were different.

2. 2012/19/EU Summary

2.1 WEEE Directive 2012/19/EU , Annex V

Classification	Recycling rate	Recovery rate
► Temperature exchange equipment ► Large equipment (any external dimension more than 50 cm) including	80%	85%
► Screens, monitors, and equipment containing screens having a surface greater than 100 cm^2	70%	80%
► Small equipment (no external dimension more than 50 cm) including ► Small IT and telecommunication equipment (no external dimension more than 50 cm)	55%	75%
► Lamps	80%	N.A.

2.2 Disassembly

The product was disassembled into different parts which were major based on the treatment requirements as a set out in the WEEE Directive Annex VII.

Material, of which a recycling technology is not available or the recycling is not economy and feasible at present, are an assumed to be shredded, incinerated or disposed for landfill without further usage.

2. 2012/19/EU Summary

2.3 Selective treatment
As a minimum the following substances, preparations and components have to be removed from any separately collected WEEE :
► Polychlorinated biphenyls (PCBs) containing capacitors in accordance with Council Directive 96/59/EC of 16 September 1996 on the disposal of polychlorinated biphenyls and polychlorinated terphenyls (PCBs/PCTs)
► Mercury containing component, such as switches or blacklighting lamps
► Batteries
► Printed circuit boards of mobile phones generally, and of other devices if the surface of the printed circuit board is greater than 10 square centimeters
► Toner cartridges, liquid and pasty, as well as colour toner
► Plastic containing brominated flame retardants
► Asbestos waste and components which contain asbestos
► Cathode ray tube
► Chlorofluorocarbons (CFCs), hydrochlorofluorocarbons (HCFCs) or hydrocarbons (HCs)
► Gas discharge lamps
► Liquid crystal displays (together with their casing where appropriate) of a surface greater than 100 square centimetres and all those back-lighted with gas discharge lamps
► External electric cables
► Components containing refractory ceramic fibres as described in Commission Directive 97/69/EC of 5 December 1997 adapting to technical progress Council Directive 67/548/EEC relating to the classification, packaging and labeling of dangerous substances
► Components containing radioactive substances with the exception of component that are below the exemption thresholds set in Article 3 of and Annex Ⅰ to Council Directive 96/29/Euratom
► Electrolyte capacitors containing substances of concern (Height > 25mm, Diameter > 25mm)

3. Recycling and recovery rate of calculation table

3.1 IEC/TR 62635 Annex D Table D.2

- Recycling and recovery rate of product parts which a single recyclable material

Material name	Recycling rate RCR (%)	Recovery rate RVR (%)
ABS (acrylonirtile butadiene styrene)	90	90
PP (polypropylene)	90	90
HIPS (high impact polystyrene)	90	90
GPPS (general purpose polystyrene)	98	98
SAN (styrene acrylonitrile)	98	98
PC (polycarbonate)	90	90
Steel (general)	95	95
Stainless steel (magnetic)	95	95
Stainless steel (non-magnetic)	95	95
Aluminum	95	95
Copper	98	98
Nickel pure	95	95
Zink die casting	95	95
Magnesium	95	95
PMMA (polymethyl methacrylate)*	70	90
EP (EPOXY resin)	0	90
PF (phenol formaldehyde resin)	0	90
PUR (polyurethane foam)	0	90
Glass (door panel)	0	0
Glass (shelf)	0	0

▶ Note

* ; Applied IEC/TR Annex D Table D.4 of PMMA

3. Recycling and recovery rate of calculation table

3.2 IEC/TR 62635 Annex D Table D.3
- Recycling and recovery rate of product parts difficult to process

Part name	Recycling rate RCR (%)	Recovery rate RVR (%)
Compressors	90	90
AC motor	90	90
Resin motor	0	0
Clutch	90	90
Evaporator	90	90
Transformer (MWO : microwave oven transformer)	90	90
Cement weight balance	0	0
Steel weight balance	90	90

3. Recycling and recovery rate of calculation table

3.3 IEC/TR 62635 Annex D Table D.5
- Recycling and recovery rate of product parts which require selective treatment

Part or material	Recycling rate RCR (%)	Recovery rate RVR (%)
Cable (high current)	33	33
Cable (low current)	24	24
Battery (lead-acid)	60	60
Battery (Ni-Cd) (2 type : portable (<1 kg), non-portable (>1kg))	70	70
Other battery	45	45
PWB (Printed wiring board with components) - Poor	14	57
PWB (Printed wiring board with components) - Intermediate	17	60
PWB (Printed wiring board with components) - Rich	18	61
CRT (cathode-ray tube)	90	90
LCD (liquid crystal display)*	0	0

▶ Note

*; Applied IEC/TR Annex D Table D.1 of LCD

3. Recycling and recovery rate of calculation table

3.4 IEC/TR 62635 Annex D Table D.6
- Recycling and recovery rate of product parts which a single recyclable material

Material name	Recycling rate RCR (%)	Recovery rate RVR (%)
ABS (acrylonirtile butadiene styrene)	94	95
ABS with any additives	94	95
PP (polypropylene)	94	95
PP + EPDM	94	95
PP - GF (polypropylene + glass fibre)	94	95
PP with natural fibres (e.g. hemp)	0	97
PP with any other addtivies	94	95
HIPS (high impact polystyrene)	94	95
HIPS with any additives	94	95
PE (polypropylene copolymer)	94	95
SAN (styrene acrylonitrile) with and without additives	94	95
ABS-PC with and without additives	94	95
PA (polyamide) with and without additives	94	95
PA-6 with and without additives	94	95
PMMA (polymethyl methacrylate)*	70	90
PET (polyethylene terephalate)*	70	90
Other polymers	0	5
Steel (general)	95	95
Aluminum	95	95
Copper	95	95
Other metal	95	95

▶ Note
* ; Applied IEC/TR Annex D Table D.4 of PMMA and PET

3. Recycling and recovery rate of calculation table

3.5 IEC/TR 62635 Annex D Table D.7

- Recycling and recovery rate of product parts difficult to process

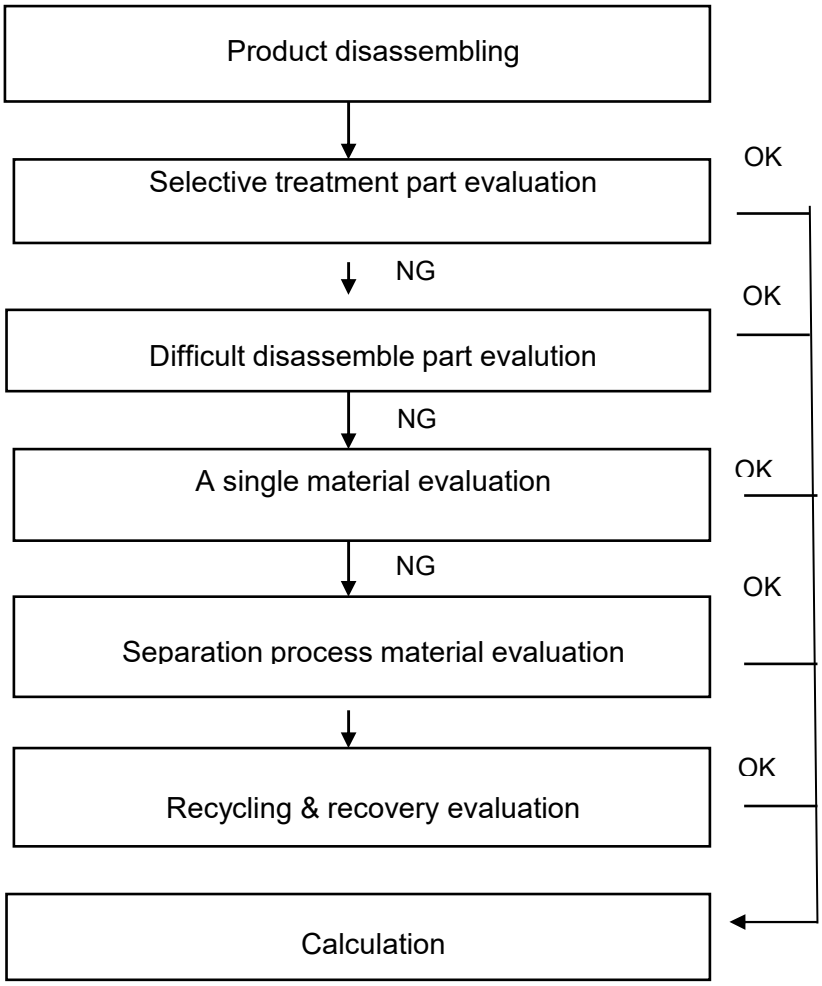
Part name	Recycling rate RCR (%)	Recovery rate RVR (%)
AC motor	85	85
Heatsink	93	93
Cable (optical)	0	0
Bulb	0	0
Cable*	33	33

▶ Note

* ; Applied IEC/TR Annex D Table D.5 of cable (high current)

4. Evaluation flow

4.1 Procedure



4.2 Calculation formula

Recycling Rate (%)	=	Recycling total weight / Product total weight	X	100%	
Recovery Rate (%)	=	Recovery total weight / Product total weight	X	100%	

5. Disassembling results

5.1 Component detailed information

<table>
<tr><td rowspan="5">1</td><td rowspan="5"></td><td colspan="2">Part name ;</td><td>Main product</td><td>Connection type</td><td>-</td></tr>
<tr><td colspan="2">Material type ;</td><td>Composite</td><td>Evaluation</td><td>Further disassembly</td></tr>
<tr><td colspan="2">Disassembly tools</td><td>-</td><td>Disassembly time(sec)</td><td>-</td></tr>
<tr><td>Weight (g)</td><td>Recycling rate(%)</td><td>Recycling weight (g)</td><td>Recovery rate(%)</td><td>Recovery weight (g)</td></tr>
<tr><td>-</td><td>N.A.</td><td>-</td><td>N.A.</td><td>-</td></tr>
<tr><td rowspan="5">1.1</td><td rowspan="5"></td><td colspan="2">Part name ;</td><td>Label</td><td>Connection type</td><td>Adhesive</td></tr>
<tr><td colspan="2">Material type ;</td><td>Composite</td><td>Evaluation</td><td>Disposal</td></tr>
<tr><td colspan="2">Disassembly tools</td><td>Hand</td><td>Disassembly time(sec)</td><td>3</td></tr>
<tr><td>Weight (g)</td><td>Recycling rate(%)</td><td>Recycling weight (g)</td><td>Recovery rate(%)</td><td>Recovery weight (g)</td></tr>
<tr><td>0.32</td><td>0</td><td>0.00</td><td>0</td><td>0.00</td></tr>
<tr><td rowspan="5">1.2</td><td rowspan="5"></td><td colspan="2">Part name ;</td><td>Front cover</td><td>Connection type</td><td>Screw(6)</td></tr>
<tr><td colspan="2">Material type ;</td><td>Composite</td><td>Evaluation</td><td>Further disassembly</td></tr>
<tr><td colspan="2">Disassembly tools</td><td>Screw driver</td><td>Disassembly time(sec)</td><td>18</td></tr>
<tr><td>Weight (g)</td><td>Recycling rate(%)</td><td>Recycling weight (g)</td><td>Recovery rate(%)</td><td>Recovery weight (g)</td></tr>
<tr><td>-</td><td>N.A.</td><td>-</td><td>N.A.</td><td>-</td></tr>
<tr><td rowspan="5">1.2.1</td><td rowspan="5"></td><td colspan="2">Part name ;</td><td>Deco sheet</td><td>Connection type</td><td>Adhesive</td></tr>
<tr><td colspan="2">Material type ;</td><td>PC</td><td>Evaluation</td><td>Table D.2</td></tr>
<tr><td colspan="2">Disassembly tools</td><td>Knife</td><td>Disassembly time(sec)</td><td>2</td></tr>
<tr><td>Weight (g)</td><td>Recycling rate(%)</td><td>Recycling weight (g)</td><td>Recovery rate(%)</td><td>Recovery weight (g)</td></tr>
<tr><td>0.05</td><td>90</td><td>0.04</td><td>90</td><td>0.04</td></tr>
</table>

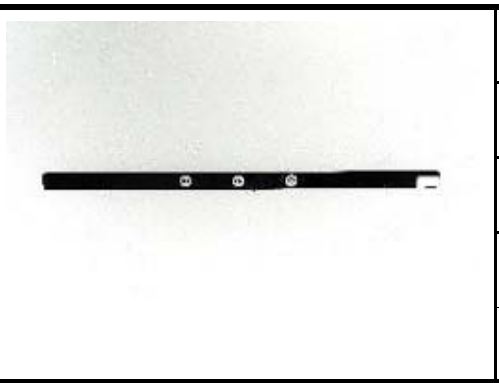
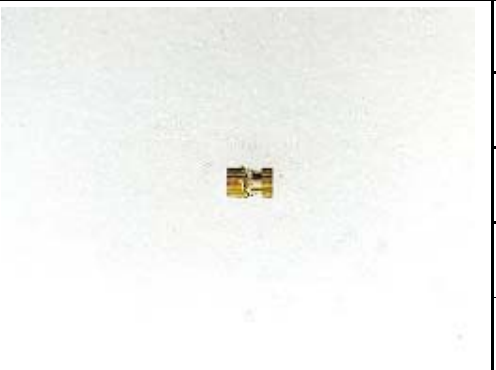
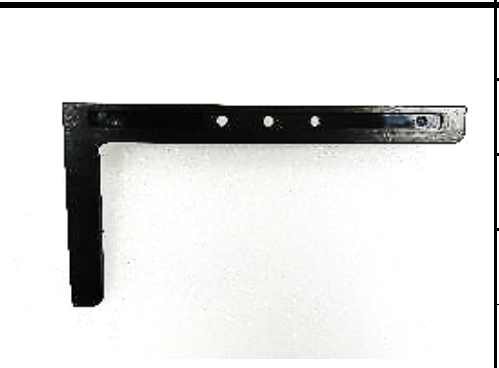
5. Disassembling results

5.1 Component detailed information

1.2.2		Part name ;		Deco glass	Connection type	Adhesive
		Material type ;		Glass	Evaluation	Disposal
		Disassembly tools		Screw driver	Disassembly time(sec)	60
		Weight (g)	Recycling rate(%)	Recycling weight (g)	Recovery rate(%)	Recovery weight (g)
		181	0	0.00	0	0.00
1.2.3		Part name ;		Tape	Connection type	Adhesive
		Material type ;		Composite	Evaluation	Disposal
		Disassembly tools		Knife	Disassembly time(sec)	10
		Weight (g)	Recycling rate(%)	Recycling weight (g)	Recovery rate(%)	Recovery weight (g)
		3.03	0	0.00	0	0.00
1.2.4		Part name ;		Case top	Connection type	Residue
		Material type ;		PC	Evaluation	Table D.2
		Disassembly tools		Hand	Disassembly time(sec)	1
		Weight (g)	Recycling rate(%)	Recycling weight (g)	Recovery rate(%)	Recovery weight (g)
		114	90	103	90	103
1.3		Part name ;		Passport guide	Connection type	Screw(3)
		Material type ;		Composite	Evaluation	Further disassembly
		Disassembly tools		Screw driver	Disassembly time(sec)	6
		Weight (g)	Recycling rate(%)	Recycling weight (g)	Recovery rate(%)	Recovery weight (g)
		-	N.A.	-	N.A.	-

5. Disassembling results

5.1 Component detailed information

<table>
<tr><td rowspan="5">1.3.1</td><td rowspan="5"></td><td colspan="2">Part name ;</td><td>Passport guide sheet</td><td>Connection type</td><td>Adhesive</td></tr>
<tr><td colspan="2">Material type ;</td><td>PC</td><td>Evaluation</td><td>Table D.2</td></tr>
<tr><td colspan="2">Disassembly tools</td><td>Screw driver</td><td>Disassembly time(sec)</td><td>1</td></tr>
<tr><td>Weight (g)</td><td>Recycling rate(%)</td><td>Recycling weight (g)</td><td>Recovery rate(%)</td><td>Recovery weight (g)</td></tr>
<tr><td>1.01</td><td>90</td><td>0.91</td><td>90</td><td>0.91</td></tr>
<tr><td rowspan="5">1.3.2</td><td rowspan="5"></td><td colspan="2">Part name ;</td><td>Insert</td><td>Connection type</td><td>Molding</td></tr>
<tr><td colspan="2">Material type ;</td><td>Copper</td><td>Evaluation</td><td>Table D.6</td></tr>
<tr><td colspan="2">Disassembly tools</td><td>Cutting plier</td><td>Disassembly time(sec)</td><td>1</td></tr>
<tr><td>Weight (g)</td><td>Recycling rate(%)</td><td>Recycling weight (g)</td><td>Recovery rate(%)</td><td>Recovery weight (g)</td></tr>
<tr><td>0.59</td><td>95</td><td>0.56</td><td>95</td><td>0.56</td></tr>
<tr><td rowspan="5">1.3.3</td><td rowspan="5"></td><td colspan="2">Part name ;</td><td>Passport guide</td><td>Connection type</td><td>Residue</td></tr>
<tr><td colspan="2">Material type ;</td><td>PC</td><td>Evaluation</td><td>Table D.2</td></tr>
<tr><td colspan="2">Disassembly tools</td><td>Hand</td><td>Disassembly time(sec)</td><td>1</td></tr>
<tr><td>Weight (g)</td><td>Recycling rate(%)</td><td>Recycling weight (g)</td><td>Recovery rate(%)</td><td>Recovery weight (g)</td></tr>
<tr><td>13.2</td><td>90</td><td>11.9</td><td>90</td><td>11.9</td></tr>
<tr><td rowspan="5">1.4</td><td rowspan="5"></td><td colspan="2">Part name ;</td><td>Ant cushion tape</td><td>Connection type</td><td>Adhesive</td></tr>
<tr><td colspan="2">Material type ;</td><td>SJ-SR 0.5T</td><td>Evaluation</td><td>Disposal</td></tr>
<tr><td colspan="2">Disassembly tools</td><td>Hand</td><td>Disassembly time(sec)</td><td>1</td></tr>
<tr><td>Weight (g)</td><td>Recycling rate(%)</td><td>Recycling weight (g)</td><td>Recovery rate(%)</td><td>Recovery weight (g)</td></tr>
<tr><td>2.26</td><td>0</td><td>0.00</td><td>0</td><td>0.00</td></tr>
</table>

5. Disassembling results

5.1 Component detailed information

1.5		Part name ;		ANT-BOARD	Connection type	Cable
		Material type ;		PWB (Intermediate)	Evaluation	Table D.5
		Disassembly tools		Hand	Disassembly time(sec)	1
		Weight (g)	Recycling rate(%)	Recycling weight (g)	Recovery rate(%)	Recovery weight (g)
		45.5	17	7.74	60	27.3
1.6		Part name ;		Press holder	Connection type	Screw(2)
		Material type ;		Other metal (EGI)	Evaluation	Table D.6
		Disassembly tools		Screw driver	Disassembly time(sec)	4
		Weight (g)	Recycling rate(%)	Recycling weight (g)	Recovery rate(%)	Recovery weight (g)
		3.69	95	3.50	95	3.50
1.7		Part name ;		Mirro 02	Connection type	Putting
		Material type ;		Glass	Evaluation	Disposal
		Disassembly tools		Hand	Disassembly time(sec)	1
		Weight (g)	Recycling rate(%)	Recycling weight (g)	Recovery rate(%)	Recovery weight (g)
		7.14	0	0.00	0	0.00
1.8		Part name ;		UVLED-BOARD	Connection type	Putting
		Material type ;		PWB (Poor)	Evaluation	Table D.5
		Disassembly tools		Hand	Disassembly time(sec)	1
		Weight (g)	Recycling rate(%)	Recycling weight (g)	Recovery rate(%)	Recovery weight (g)
		3.43	14	0.48	57	1.95

5. Disassembling results

5.1 Component detailed information

1.9		Part name ;		Core	Connection type	Putting
		Material type ;		Composite	Evaluation	Further disassembly
		Disassembly tools		Hand	Disassembly time(sec)	1
		Weight (g)	Recycling rate(%)	Recycling weight (g)	Recovery rate(%)	Recovery weight (g)
		-	N.A.	-	N.A.	-
1.9.1		Part name ;		Core Case	Connection type	Residue
		Material type ;		Other polymers	Evaluation	Table D.6
		Disassembly tools		Hand	Disassembly time(sec)	1
		Weight (g)	Recycling rate(%)	Recycling weight (g)	Recovery rate(%)	Recovery weight (g)
		1.00	0	0.00	5	0.05
1.9.2		Part name ;		Magnet	Connection type	Putting
		Material type ;		Magnet	Evaluation	Disposal
		Disassembly tools		Hand	Disassembly time(sec)	1
		Weight (g)	Recycling rate(%)	Recycling weight (g)	Recovery rate(%)	Recovery weight (g)
		5.62	0	0.00	0	0.00
1.10		Part name ;		CABLE	Connection type	Putting
		Material type ;		Cable (High current)	Evaluation	Table D.5
		Disassembly tools		Hand	Disassembly time(sec)	2
		Weight (g)	Recycling rate(%)	Recycling weight (g)	Recovery rate(%)	Recovery weight (g)
		3.96	33	1.31	33	1.31

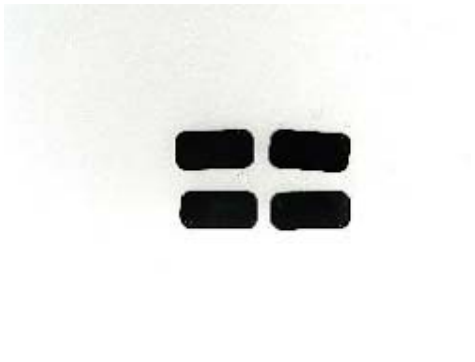
5. Disassembling results

5.1 Component detailed information

1.11		Part name ;		Mirror 01	Connection type	Putting
		Material type ;		Glass	Evaluation	Disposal
		Disassembly tools		Hand	Disassembly time(sec)	1
		Weight (g)	Recycling rate(%)	Recycling weight (g)	Recovery rate(%)	Recovery weight (g)
		80.0	0	0.00	0	0.00
1.12		Part name ;		Main PCB	Connection type	Screw(6)
		Material type ;		PWB (Rich)	Evaluation	Table D.5
		Disassembly tools		Hand	Disassembly time(sec)	12
		Weight (g)	Recycling rate(%)	Recycling weight (g)	Recovery rate(%)	Recovery weight (g)
		115	18	20.8	61	70.3
1.13		Part name ;		Inner bracket	Connection type	Residue
		Material type ;		PC	Evaluation	Table D.2
		Disassembly tools		-	Disassembly time(sec)	-
		Weight (g)	Recycling rate(%)	Recycling weight (g)	Recovery rate(%)	Recovery weight (g)
		162	90	146	90	146
1.14		Part name ;		Kensington lock	Connection type	Putting
		Material type ;		Other metal (SUS)	Evaluation	Table D.6
		Disassembly tools		Hand	Disassembly time(sec)	1
		Weight (g)	Recycling rate(%)	Recycling weight (g)	Recovery rate(%)	Recovery weight (g)
		1.05	95	0.99	95	0.99

5. Disassembling results

5.1 Component detailed information

<table>
<tr><td rowspan="5">1.15</td><td rowspan="5"></td><td colspan="2">Part name ;</td><td>Rubber foot</td><td>Connection type</td><td>Adhesive</td></tr>
<tr><td colspan="2">Material type ;</td><td>Other polymers (SH5160)</td><td>Evaluation</td><td>Table D.6</td></tr>
<tr><td colspan="2">Disassembly tools</td><td>Hand</td><td>Disassembly time(sec)</td><td>4</td></tr>
<tr><td>Weight (g)</td><td>Recycling rate(%)</td><td>Recycling weight (g)</td><td>Recovery rate(%)</td><td>Recovery weight (g)</td></tr>
<tr><td>1.09</td><td>0</td><td>0.00</td><td>5</td><td>0.05</td></tr>
<tr><td rowspan="5">1.16</td><td rowspan="5"></td><td colspan="2">Part name ;</td><td>Insert</td><td>Connection type</td><td>Molding</td></tr>
<tr><td colspan="2">Material type ;</td><td>Copper</td><td>Evaluation</td><td>Table D.6</td></tr>
<tr><td colspan="2">Disassembly tools</td><td>Cutting plier</td><td>Disassembly time(sec)</td><td>20</td></tr>
<tr><td>Weight (g)</td><td>Recycling rate(%)</td><td>Recycling weight (g)</td><td>Recovery rate(%)</td><td>Recovery weight (g)</td></tr>
<tr><td>1.62</td><td>95</td><td>1.54</td><td>95</td><td>1.54</td></tr>
<tr><td rowspan="5">1.17</td><td rowspan="5"></td><td colspan="2">Part name ;</td><td>Case bottom</td><td>Connection type</td><td>Residue</td></tr>
<tr><td colspan="2">Material type ;</td><td>PC</td><td>Evaluation</td><td>Table D.2</td></tr>
<tr><td colspan="2">Disassembly tools</td><td>-</td><td>Disassembly time(sec)</td><td>-</td></tr>
<tr><td>Weight (g)</td><td>Recycling rate(%)</td><td>Recycling weight (g)</td><td>Recovery rate(%)</td><td>Recovery weight (g)</td></tr>
<tr><td>248</td><td>90</td><td>223</td><td>90</td><td>223</td></tr>
<tr><td rowspan="5">2</td><td rowspan="5"></td><td colspan="2">Part name ;</td><td>Adapter</td><td>Connection type</td><td>-</td></tr>
<tr><td colspan="2">Material type ;</td><td>Composite</td><td>Evaluation</td><td>Further disassembly</td></tr>
<tr><td colspan="2">Disassembly tools</td><td>-</td><td>Disassembly time(sec)</td><td>-</td></tr>
<tr><td>Weight (g)</td><td>Recycling rate(%)</td><td>Recycling weight (g)</td><td>Recovery rate(%)</td><td>Recovery weight (g)</td></tr>
<tr><td>-</td><td>N.A.</td><td>-</td><td>N.A.</td><td>-</td></tr>
</table>

5. Disassembling results

5.1 Component detailed information

2.1		Part name ;		Adapter Label	Connection type	Adhesive
		Material type ;		Composite	Evaluation	Disposal
		Disassembly tools		Knife	Disassembly time(sec)	3
		Weight (g)	Recycling rate(%)	Recycling weight (g)	Recovery rate(%)	Recovery weight (g)
		0.37	0	0.00	0	0.00
2.2		Part name ;		Adapter Case	Connection type	Molding
		Material type ;		PC	Evaluation	Table D.2
		Disassembly tools		Hammer+Driver	Disassembly time(sec)	30
		Weight (g)	Recycling rate(%)	Recycling weight (g)	Recovery rate(%)	Recovery weight (g)
		45.4	90	40.9	90	40.9
2.3		Part name ;		Adapter PCB	Connection type	Putting
		Material type ;		PWB (Rich)	Evaluation	Table D.5
		Disassembly tools		Hand	Disassembly time(sec)	3
		Weight (g)	Recycling rate(%)	Recycling weight (g)	Recovery rate(%)	Recovery weight (g)
		89.1	18	16.0	61	54.4
2.4		Part name ;		Adapter Cable	Connection type	Putting
		Material type ;		Cable (High current)	Evaluation	Table D.5
		Disassembly tools		Hand	Disassembly time(sec)	1
		Weight (g)	Recycling rate(%)	Recycling weight (g)	Recovery rate(%)	Recovery weight (g)
		23.9	33	7.89	33	7.89

5. Disassembling results

5.1 Component detailed information

3		Part name ;		USB Cable	Connection type	Residue
		Material type ;		Cable (High current)	Evaluation	Table D.5
		Disassembly tools		-	Disassembly time(sec)	-
		Weight (g)	Recycling rate(%)	Recycling weight (g)	Recovery rate(%)	Recovery weight (g)
		90.2	33	29.8	33	29.8
4		Part name ;		Power Cable	Connection type	Residue
		Material type ;		Cable (High current)	Evaluation	Table D.5
		Disassembly tools		-	Disassembly time(sec)	-
		Weight (g)	Recycling rate(%)	Recycling weight (g)	Recovery rate(%)	Recovery weight (g)
		90.4	33	29.8	33	29.8
5		Part name ;		Cable Tie	Connection type	Residue
		Material type ;		Composite	Evaluation	Disposal
		Disassembly tools		-	Disassembly time(sec)	-
		Weight (g)	Recycling rate(%)	Recycling weight (g)	Recovery rate(%)	Recovery weight (g)
		1.25	0	0.00	0	0.00
6		Part name ;		Scerew	Connection type	Residue
		Material type ;		Other metal	Evaluation	Table D.6
		Disassembly tools		-	Disassembly time(sec)	-
		Weight (g)	Recycling rate(%)	Recycling weight (g)	Recovery rate(%)	Recovery weight (g)
		3.78	95	3.59	95	3.59

5. Disassembling results

5.2 Calculation

Information	Weight (g)	Weight (%)
1. Product total	1340	100
2. Recycling	650	48.5
3. Recovery	759	56.6
4. Disposal	281	21.0

Other information	**Calculation formula**
Recycling Rate (%)	$= \frac{\text{Recycling total weight}}{\text{Product total weight}} \times 100\%$
Recovery Rate (%)	$= \frac{\text{Recovery total weight}}{\text{Product total weight}} \times 100\%$

5.3 Test result

Item	Target	Test result
Recycling Rate (%)	55%	48.5%
Recovery Rate (%)	75%	56.6%