

WEEE Disassembly Manual

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The following sample(s) was/were submitted and identified by/on behalf of the applicant as :

Sample Submitted By : ZEROPLUS TECHNOLOGY CO., LTD

Type of Product : LOGIC ANALYZER (邏輯分析儀)

Style/Item No. : LAP EDUCATOR

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CONCLUSION: Please refer to the next page




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Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory - Taipei

CONCLUSION:

The LOGIC ANALYZER (邏輯分析儀) is classified as Category 3 under Annex I & II of Directive 2012/19/EU WEEE (recast). The following table shows the WEEE (recast) Directive compliance conclusion.

Assessment Item	Recycled Rate (%)	Recovered Rate (%)
Result of Assessment	77.28	88.62
Minimum Recovery targets under WEEE (recast) Directive Annex V (2015/8/15 ~ 2018/8/14)	70	80
WEEE (recast) requirement compliance	PASS	PASS
Disassembly time (sec.)	22	

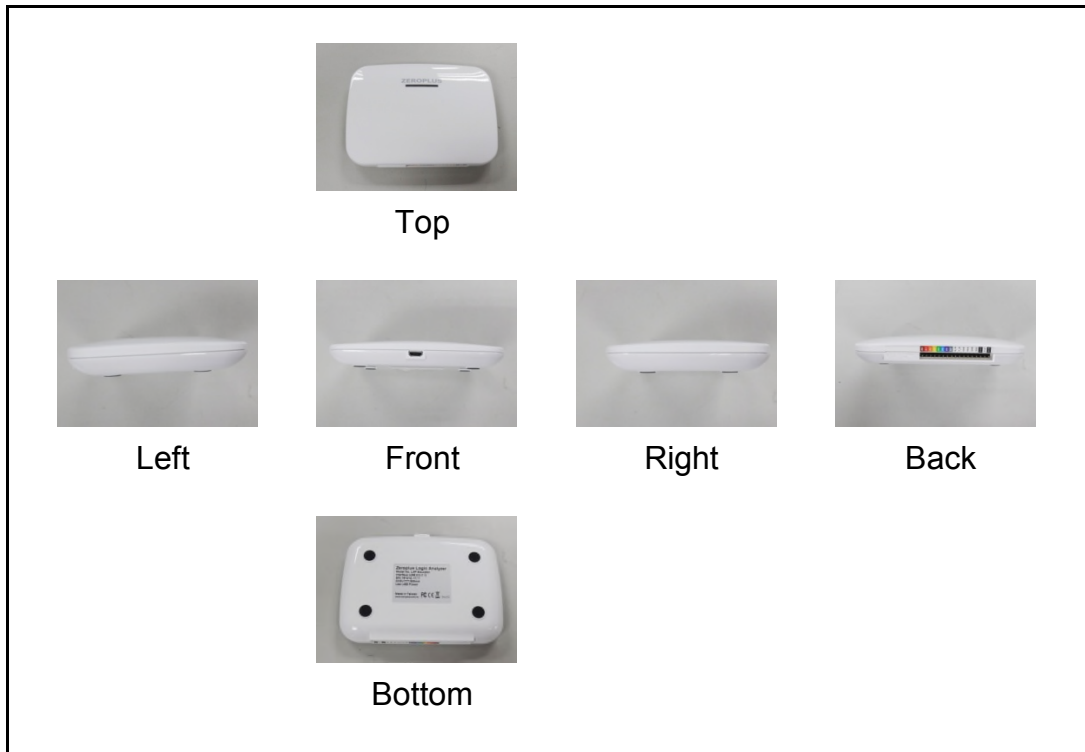
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1. Product Information

The product is a LOGIC ANALYZER (邏輯分析儀). The weight of this product excluding package is 90.1813 g.The appearance of the product is as follows:



2. Product Composition

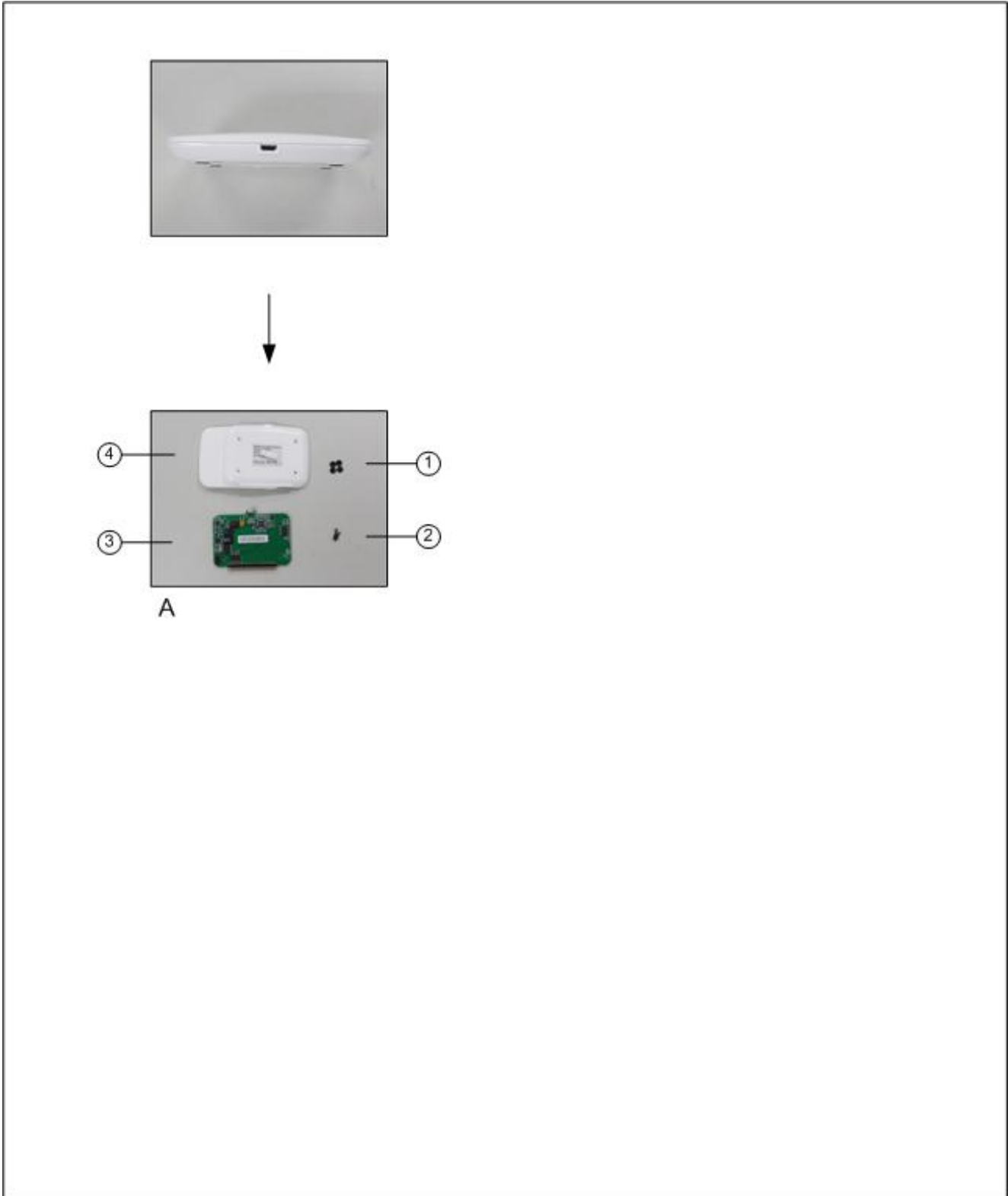
The composition and weight of each part is described as follows:

Part Name	Composition	Weight (g)	Percent (%)
Rubber foot, Plastic case	Plastic	51.1298	56.70
Screw	Metal	0.6716	0.74
PCBA	PCBA	38.3799	42.56
Total		90.1813	100.00

3. Disassembly Procedure






3.1 Flow Chart for Disassembly Procedure

The disassembly procedure taken here is in accordance with the treatment requirements under the Annex VII of the WEEE (recast) Directive. In addition to considering economic and efficiency factors, manual operation and disassembly tools have been applied to separate the components and materials from this product in order to simulate the scenario at the treatment facility, and to achieve the objective that the separated components and materials can be reused, recycled and recovered.



3.2 Component and Material Composition


The material declaration for this product, the disassembly tools and the disassembly time are described in the following table.

Procedure		Part				Disassembly			Remark	
No.	Picture	No.	Name	Picture	Material	Weight (g)	Connection Technique	Tool		Time (s.)
A		1	Rubber foot		Plastic	0.3002	Adhesive, Screw	Screwdriver	22	Part 3 is a PCBA. The surface of part 3 is greater than 10 square centimeters. According to WEEE (recast) directive, part 3 requires selective treatment.
		2	Screw		Metal	0.6716				
		3	PCBA		PCBA	38.3799				
		4	Plastic case		Plastic	50.8296				

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3.3 Disassembly Tool

The disassembly tool used for this product shows in the following table.

Disassembly Tool	Picture
Screwdriver	

3.4 Connection Technology

For this product, the connection technology including is as follows:

Connector Tech.	Number
Adhesive	4
Screw	4

4. Reuse / Recycling / Recovery Assessment

The reuse, recycling and recovery assessment for this product is based upon the waste treatment technologies and equipment that are most frequently available to the market. The following table is the result of the assessment.

Part Name	Composition	Recycled Rate (%) [*]	Energy Recovery Rate (%) [*]	Recovered Rate (%) [*]
Rubber foot, Plastic case	Plastic	42.52	11.34	53.86
Screw	Metal	0.71	-	0.71
PCBA	PCBA	34.05	-	34.05
Total		77.28	11.34	88.62

*: the percentages are based on the total device weight.

5. WEEE (recast) Directive Compliance

5.1 Selective Treatment for Materials and Components

This product contains component and material items, listed in Annex VII of the WEEE (recast) Directive, that require selective treatment for materials and components of waste electrical and electronic equipment in accordance with Article 8. It is described in the following table.

Component/Material	Photo No.
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	3

5.2 Reuse/Recycling/Recovery Assessment

Assessment Item	Recycled Rate (%)	Recovered Rate (%)
Result of Assessment	77.28	88.62
Minimum Recovery targets under WEEE (recast) Directive Annex V (2015/8/15 ~ 2018/8/14)	70	80
WEEE (recast) requirement compliance	PASS	PASS
Disassembly time (sec.)	22	

5.3 Selective Treatment for Material and Components of Waste Electrical and Electronic Equipment (Annex VII of WEEE (recast) Directive)

- 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
- Batteries
- External electric cables
- Liquid crystal displays (together with their casing where appropriate) of a surface greater than 100 square centimeters and all those back-lighted with gas discharge lamps
- Electrolyte capacitors containing substances of concern (height > 25 mm, diameter > 25 mm or proportionately similar volume)
- Mercury containing components, such as switches or backlighting lamps
- Plastic containing brominated flame retardants
- Polychlorinated biphenyls (PCB) containing capacitors
- Toner cartridges, liquid and pasty, as well as colour toner
- Asbestos waste and components which contain asbestos
- Cathode ray tubes
- Chlorofluorocarbons (CFC), hydrochlorofluorocarbons (HCFC) or hydrofluorocarbons (HFC), hydrocarbons (HC)
- Gas discharge lamps
- Components containing refractory ceramic fibers
- Components containing radioactive substances with the exception of components that are below the exemption thresholds set in Article 3 of and Annex I to Council Directive 96/29/Euratom of 13 May 1996 laying down basic safety standards for the protection of the health of workers and the general public against the dangers arising from ionising radiation