

WEEE Directive Compliance Report

Report No.: HS1604110087A-1 **Date:** 2016/10/11

Client: Onyx Healthcare Inc.

2F., No.135, Lane 235, Baoqiao Rd., Xindian Dist., New Taipei

City, Taiwan (R.O.C.)

Model No.: ONYX-BE182DT-F1-1010



Test Specification: WEEE Directive 2012/19/EU Article 11-RecoveryTargets

Test Result: All disassembling parts were fitted the requirements of WEEF

Directive.

Test Laboratory: Integrated Service Technology Ltd.

Testing Location: 1F, No.31, Pu-Ding Rd., Hsin-Chu City, 30072, Taiwan,

R.O.C.

Name of Analysis Institution

Wenston lin

Report Review
On behalf of Integrated Service Technology



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1 · General Product Remark

1.1 Complementary Materials

This report applies especially to <u>ONYX-BE182DT-F1-1010</u> of Onyx Healthcare Inc.. The testing sample is classified as <u>Category 3</u> under Annex IA of Directive 2012/19/EU. The photos of the testing sample are shown as follows.

Equipment Name / Model No	Э.	ON	YX-BE182DT-F	1-1010					
	Front View								
Connection Technique	• Conr	nector	ScrewSnap						
Connection Tools	Handknife		Philips SoLong Nos	crewdriver se Pliers					
Disassembly Time(sec)	259 sec			料技股份系					
Recommended Disassembly Sequence	See 4.1 I	Disassembly Se	quence						
Derivative Summary	See 5.2 F	Product 3R Cal	culation (Table 6)	報告專用章					
Reuse/Recycling Rate	See 5.3 Test Result								
Recovery Rate	See 5.3 Test Result								
Estimated Treatment Value*	High								
*Note	The estimated treatment value is evaluated by the breaking even dismantling weight								



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2 · Background

2.1 RoHS, 2011/65/EU: See Table 1

Table 1: The Limit of Restraint Item

Restraint Item	Value (ppm)
Lead (Pb)	1,000
Cadmium (Cd)	100
Mercury (Hg)	1,000
Chromium VI (Cr ⁶⁺)	1,000
Polybrominated Biphenyls (PBBs)	1,000
Polybrominated Diphenylethers (PBDEs)	1,000

2.2 WEEE, 2012/19/EU: See Table 2

Table 2: Reuse & Recycling Rate

No	Classification	Reuse & Recycling	Recovery
III	IT and telecommunications equipment	70%	80%





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3 · Disassembly Principle

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 substances, 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.

3.1 Selectively 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 components, such as switches or backlighting 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 tubes
- 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.



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3.2 Material Classification

Table 3: Material Classification

Worksheets	The material definition	Recovery Attribute		
Module Parts	Contained complex Material but with reused value through simple repair process	Reuse		
Metal	Including metal of iron department , valuable alloy ,etc.	Recycling		
	(1)Include pure plastics, mixed plastics, etc.			
Plastics	Energy Recovery			
	Recycling			
Glass	(2)Special-purpose processing glass (such as the leaded oxide glass)	Disposal		

3.3 Directive 2012/19/EU Compliance Evaluation Flow

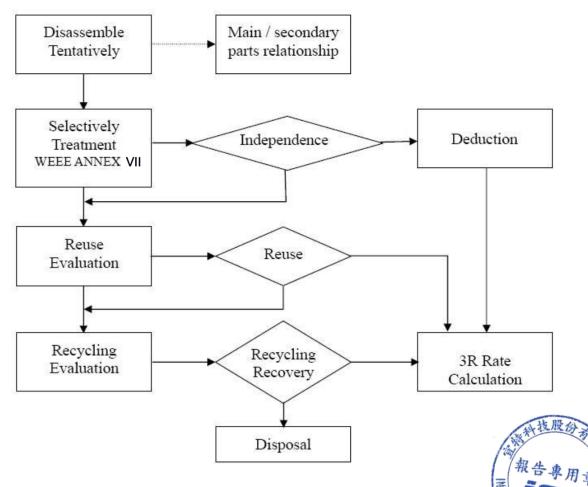


Figure 1: Directive 2012/19/EU Compliance Evaluation Flow



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4 · Product Component Disassembly Assessment

4.1 Disassembly Sequence

The disassembly sequences of the eight sub-assemblies are shown as Table 4.

Table 4: Sub-assembly Assessments –ONYX-BE182DT-F1-1010

N	ame	ONYX-BE182DT-F1-1010			Characteristics			
JOIN THE RESERVE T				 Component Numbers: 25 Total Disassembly Time: 259 sec Disassembly Sequence: From Step 1 to 18 Connection Technique: Snap Connector Screw Disassembly Tools: Philips Screwdriver knife Hand Long Nose Pliers 				
			Component	detail	ed ir	nformation		
Sequ	antling ence / t No.	Compone	ent Name & Photo	Wei	_	Connection Technique	Reuse and recycling facilities	Disassembly Tools
1	1	Phone- Holder		66.0	00	Screw & Snap	Pyrolysis and	Philips Screwdriver
2	2	Accessor y-Holder- T		157.00 Screw & Snap		Screw & Snap	Catalysts recycling facilities	Philips Screwdriver
	3	Metal.AL .EMI Cover		206.	.00	Screw & Snap	Scrap metal recycling facilities	Philips Screwdriver
3	4	Rear Cover ASS'Y Kit		753.	.00	Screw & Snap	Pyrolysis and Catalysts recycling facilities	Philips Screwdriver



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Table 4: Sub-assembly Assessments –ONYX-BE182DT-F1-1010

	Component detailed information						
Dismantling Sequence / Part No.		Component Name & Photo		Weight (g)	Connection Technique	Reuse and recycling facilities	Disassembly Tools
	5	Metal.AL .Cable BKT	•	40.00	Snap	Scrap metal recycling facilities	Hand & Long Nose Pliers
5	6	*Smart card reader		31.00	Connector		Hand & knife
6	7	*OPM-T 013		6.00	Connector		Hand & knife
8	8	*LED Driving board		6.00	Connector	PCBA crushers and high	Hand & knife
9	9	SSD M3*6mm .IM	Existing Day 21/2 Find 6800370 Transcend'	43.00	Screw	voltage electrostati c separation devices	Philips Screwdriver
10	10	*SATA CABLE		30.00	Connector		Hand & knife
11	11	*2GB.DD R3L-1600		6.00	Connector		Hand

^{*}location of materials that require special handling





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Table 4: Sub-assembly Assessments -ONYX-BE182DT-F1-1010

П	Component detailed information							
	Dismantling Sequence / Part No.		Component Name & Photo		Weight (g)	Connection Technique	Reuse and recycling facilities	Disassembly Tools
	12	12	*OMB-S 122		388.00	Snap	PCBA crushers and high voltage electrostatic separation devices	Hand
		13	Display BKT		329.00	Snap	Scrap recycling facilities	Hand
	13	14	*OPM-T 013		7.00	Connector		Hand & knife
	13	15	Metal.AL .HDD BKT		24.00	Screw	РСВА	Philips Screwdriver
	14	16	*PER-T1		12.00	Connector	crushers and high voltage electrostatic separation	Hand & knife
	15	17	*OPM-T 005.LED Board		6.00	Connector	devices	Hand & knife
	16	18	*2M Pixels. Module	Design record	9.00	Connector		Hand & knife

*location of materi11als that require special handling



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Table 4: Sub-assembly Assessments –ONYX-BE182DT-F1-1010

	Component detailed information						
Sequ	nantling uence / rt No.	Component Name & Photo		Weight (g)	Connection Technique	Reuse and recycling facilities	Disassembly Tools
	19	*Speaker		12.00	Connector	Pyrolysis and Catalysts recycling facilities	Hand & knife
16	20	Metal.AL.A	**************************************	49.00	Screw	Scrap metal recycling facilities	Philips Screwdriver
	21	*Backplane .5 keys Lightproof mylar		5.00	Screw		Philips Screwdriver
17	22	Backplane. 5 *keys Lightproof mylar	404670 T 450	5.00	Screw	Pyrolysis and Catalysts recycling facilities	Philips Screwdriver
	23	*TOUCH PCBA		4.00	Connector		Hand & knife
	24	Front Cover ASS'Y Kit		654.00	Screw	Pyrolysis and Catalysts recycling facilities	Philips Screwdriver
18	25	TFT LCD.18.5	•	1170.00	Screw	Merck rotary kiln recycling facilities	Philips Screwdriver
19	26	*External electric cables		55g (220V),a nd 53g (110V)	Connector	Pyrolysis and Catalysts recycling facilities	Hand & knife

^{*}location of materials that require special handling



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5 · 3R Calculatio

5.1 Calculation Formula

The criteria calculation of WEEE 3R (Reuse, Recycling & Recovery) is adopted from the Department of Trade and Industry (DTI, UK.), as shown in Table 5.

Table 5: 3R Calculation Formula

Calculator to help companies assess compliance with WEEE target levels					
Weight of WEEE collected	Α	kg			
Weight of whole appliances re-used for original purpose	В	kg			
Weight of components, sub-assemblies and consumables which are re-used for their original purpose or recycled	С	kg			
Target level of WEEE re-use and recycling	<u>C</u> A – B	%			
Weight of WEEE where energy is recovered in a power plant	D	kg			
Target level of WEEE recovery	<u>D + C</u> A – B	%			

Reference: (A guide to marketing, product development and manufacturing actions you need to take)-- GG416 (DTI)

Reuse & Recycling Rate = (Reuse + Recyclable)/(Products Weight)×100%(1)

Recovery Rate = (Reuse + Recyclable + Energy recovery)/(Products Weight)×100% (2)





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5.2 Product 3R Calculation

As a 3R calculating result, it is shown in Table 6.

Table 6: ONYX-BE182DT-F1-1010

Equipm	AIO/ONYX-BE182DT-F1-1010					
Description	Derivative	Weight (g)	Reuse& Recycle	Energy Recovery	Disposal	Selectively Treatment (WEEE Annex VII)
	Metal	452.0	✓		✓	
	Plastic	859.0	✓		✓	
ONYX-BE182 DT-F1-1010	Glass	0				
D1-11-1010	Complex Material	1407.0	✓	~	√	✓
	Other	1300.0	✓		✓	✓

5.3 Test Result

PASSED

Product Name	ONYX-BE182DT-F1-1010		
Required Reuse And Recycling Rate %	Testing Reuse/Recycling Rate %		
70%	80.11%		
Required Recovery Rate %	Testing Recovery Rate %		
80%	96.79 %		

