WEEE Report for ET1729L-XXXA-X

ES600522
Rev A

Tyco Electronics

Prüfbericht - Nr.: *Test Report No.:*	**10020292 001**	**Seite 1 von 35** *Page 1 of 35*
Auftraggeber: *Client:*	**Elo TouchSystems Inc.** 301 Constitution Drive Menlo Park, CA 94025-1111, USA	Geprüft und Genehmigt (Reviewed and approved) JUL 23 2007 TÜV Rheinland Group
Gegenstand der Prüfung: *Test Item:*	**LCD Touch Monitor**	
Bezeichnung: *Identification:*	**ET1729L-$X_1X_2X_3$A-X_4-X_5X_6-$X_7X_8X_9X_{10}X_{11}X_{12}$-G**	**Serien-Nr.:** *Serial No.:* **For X stands refer to page 4**
Wareneingangs-Nr.: *Receipt No.:*	**TPE32252**	**Eingangsdatum:** *Date of Receipt:* **2007-07-10**
Prüfort: *Testing Location:*	**TÜV Rheinland Taiwan Ltd. ,** 7F, No. 2, Ming Chuan East Rd. Sec.3 Taipei, Taiwan, R.O.C.	
Prüfgrundlage: *Test Specification:*	**WEEE Directive 2002/96/EC Article 7-Recovery**	
Prüfergebnis: *Test Result:*	**Der Prüfgegenstand entspricht oben genannter Prüfgrundlage(n).** *The test item passed the test specification(s).*	
Prüflaboratorium: *Testing Laboratory:*	**TÜV Rheinland Taiwan Ltd.**	

geprüft/ *tested by:*

Yunting Chen

Datum / Date	Name/Stellung / Name/Position	Unterschrift / Signature
2007-07-23	Yun-Ting Chen / Engineer	

kontrolliert/ *checked by:*

Datum / Date	Name/Stellung / Name/Position	Unterschrift / Signature
2007-07-23	Jason J.S. Wu / Vice Director	

Sonstiges/ Other Aspects:

Order number: 113094653

- This testing sample is model no. ET1729L-8UWA-1-GY-M3S1-G.

Abkürzungen:				Abbreviations:			
	P(ass)	=	entspricht Prüfgrundlage		P(ass)	=	passed
	F(ail)	=	entspricht nicht Prüfgrundlage		F(ail)	=	failed
	N/A	=	nicht anwendbar		N/A	=	not applicable
	N/T	=	nicht getestet		N/T	=	not tested

Contents

1. General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix 1: Photos of tested sample

LCD Touch Monitor / ET1729L-$X_1X_2X_3$A-X_4-X_5X_6- $X_7X_8X_9X_{10}X_{11}X_{12}$-G

1.2 Remark Definition

Variable:	Range of Variable:	Content:
Model ET1729L-$X_1X_2X_3$A-X_4-X_5X_6- $X_7X_8X_9X_{10}X_{11}X_{12}$-G (ET1729L-8UWA-1-GY-M3S1-G):		
X_1	0, 3, 7, 8, 9, A	X_1 = Touch Screen Type 0= No Touch 3= Surface Capacitive 7= AccuTouch 8= IntelliTouch 9= CarrollTouch A= Acoustic Pulse Recognition
X_2	C, U, N	X_2= Touch Interface Type C= Combo Serial/USB Touch Controller U= USB Touch Controller N= No Touch Controller
X_3	W, J	X_3= Market Geographic Designation W= Worldwide J= Japan
X_4	1, N	X_4= Glass Surface Treatment 1= Antiglare N= No Touch Glass
X_5X_6	BG, GY	X_5X_6= Cabinet Color BG= Beige GY= Dark Gray
X_7X_8 X_9X_{10} $X_{11}X_{12}$	M3, C2, B1, S1, S2, S3 or None	X_7X_8, X_9X_{10}, $X_{11}X_{12}$ M3= MSR unit (USB Keyboard Emulation) C2= Customer Display B1= Fingerprint S1= 1-D Scanner with speckers. S2= omni directional Scanner with speckers. S3= No scanner. But with two speckers included. None= No above device unit

2. General Product Information

2.1 Product Description

The product is **LCD Touch Monitor**. It is classified as **Category 3** under Annex IA of Directive 2002/96/EC.

2.2 Submitted Documents

Client's email dated on 2007/7/17.

3. Assessment Description

3.1 Disassembly, Recovery and Recycling Flow

The product is disassembled into different parts (clumps) and grouped by the type of material sharing common characteristic or physical relationship (waste fractions) primarily based on the treatment requirements as set out in the WEEE directive annexe II, followed by the current state of the art recycling and recovery technology available in Europe and Taiwan. Materials for which currently no recycling technology is available or where the recycling is economically not feasible, or which contain hazardous substances, are assumed to be shredded, incinerated or disposed of to landfill with out further use.

Only bigger clumps that can be easily separated and that share a common characteristics or physical relationships are included in the recycling and reuse calculation. Other parts, respectively materials that cannot be separated by e.g. standard tools are classified as either unspecified materials or distributed to the relative waste fraction with highest content of waste is expected with reduced recovery rate.

3.2 Parameters

The calculation is based on waste fractions consisting of a typical material or substance composition for typical materials. (e.g. a power cord consists of copper wire and PVC, where as the PVC consists of a PVC, polyamide and polyester blend). For every waste fraction a theoretical recovery share for recycling and for incineration respectively waste disposal is assumed based on information provide by recycling companies. The recovery share may change over time as the recycling technology advances. The current recovery shares are available upon request.

3.3 Definition

3.3.1 Regular: Reuse, Recycling and Recovery Rate: Applying commonly used recycling technology.

3.3.2 Ideal: Recycling Rate: Applying highest recycling technology.

3.3.3 Recycling Classification

A class： Common recycling technology and high market need

B class： Recycling technology not popular and high market need

C class： Common recycling technology and low market need

D class： Recycling technology not popular and low market need

4. Assessment Results

4.1 Assessment Summary

Product Name/No.	**LCD Touch Monitor /** **ET1729L-$X_1X_2X_3$A-X_4-X_5X_6- $X_7X_8X_9X_{10}X_{11}X_{12}$-G**
	
Total Weight (g)	10213.9
Connection Technique	Combination ×14 Snap ×39 Glued ×18 Press In ×2 Screw ×148 Cable ×56 Welding ×8
Disassembly Tools	Slotted Screwdriver Philip Screwdriver Hexagon Clump Hand Mini Plastic Nipper
Disassembly Time, sec	1026
Recommended Disassembly Sequence	See 4.7 Recommended Disassembly Sequence
Derivative Summary	See 4.2 Product Derivative Table
Derivative Rate	See 4.3 Product Derivative Summary
Reuse/Recycling Rate	See 4.4 Test Result
Recovery Rate	See 4.4 Test Result
Estimated Treatment Cost, NTD/Set*	-12.6
Note	Estimated Treatment Cost = Disassembly manpower cost+ Equipment/Utility expenses+ Waste disposal cost - Income from selling derivative The selling price is floating and variable with raw material.

4.2 Product Derivative Table

Product Name/Type			LCD Touch Monitor / ET1729L-$X_1X_2X_3$A-X_4-X_5X_6- $X_7X_8X_9X_{10}X_{11}X_{12}$-G					
Derivative		Weight (g)	Weight (%)		Reuse (%)	Recycling (%)	Incineration (%)	Disposal (%)
Seat Assembly	Metal	2324.6	22.8			V		
	Plastic, ABS	448.2	4.4			V		
Barcode Scanner Startup Assembly	Metal	55.6	0.5			V		
	non-Ferrous Metal	183.6	1.8			V		
	Plastic, ABS	156.1	1.5			V		
	Plastic, PC	6.0	0.1			V		
	Mixed Metal	58.4	0.6	Ideal		V (0.6)		
				Re-gular		V (0.6)		V (0.0)
	PVC, PE	8.1	0.1	Ideal		V (0.1)		
				Re-gular			V (0.1)	
	Fibreglass	23.7	0.2	Ideal		V (0.2)		
				Re-gular				V (0.2)
	Loss, Metal	1.6	0.0					V
	Loss, Plastic	5.1	0.1					V
Rear Cover	Plastic, ABS	128.0	1.3			V		

Product Name/Type			LCD Touch Monitor / ET1729L-$X_1X_2X_3$A-X_4-X_5X_6- $X_7X_8X_9X_{10}X_{11}X_{12}$-G					
Derivative		Weight (g)	Weight (%)		Reuse (%)	Recycling (%)	Incineration (%)	Disposal (%)
Card Reader Assembly	Metal	5.1	0.1			V		
	Mixed Metal	4.1	0.0			V		
	Plastic, ABS	34.5	0.3			V		
	Plastic, PA	38.7	0.4			V		
	PVC, PE	3.3	0.0	Ideal		V (0.0)		
				Re-gular			V (0.0)	
	Loss, Plastic	0.2	0.0					V
Customer Display Assembly	Metal	50.2	0.5			V		
	Plastic, ABS+PC	108.7	1.1			V		
	Plastic, PC	5.2	0.1			V		
	Mixed Metal	8.4	0.1	Ideal		V (0.1)		
				Re-gular		V (0.0)		V (0.1)
	PVC, PE	8.6	0.1	Ideal		V (0.1)		
				Re-gular			V (0.1)	
	Fibreglass	153.0	1.5	Ideal		V (1.5)		
				Re-gular				V (1.5)
	Polyester	2.5	0.0				V	

Product Name/Type			LCD Touch Monitor / ET1729L-$X_1X_2X_3$A-X_4-X_5X_6- $X_7X_8X_9X_{10}X_{11}X_{12}$-G					
Derivative		Weight (g)	Weight (%)		Reuse (%)	Recycling (%)	Incineration (%)	Disposal (%)
Finger Print Reader Assembly	Metal	59.9	0.6			V		
	Plastic, ABS	33.8	0.3			V		
	Plastic, PMMA	5.8	0.1			V		
	Mixed Metal	1.0	0.0	Ideal		V (0.0)		
				Re-gular		V (0.0)		V (0.0)
	PVC, PE	2.5	0.0	Ideal		V (0.0)		
				Re-gular			V (0.0)	
	Fibreglass	3.3	0.0	Ideal		V (0.0)		
				Re-gular				V (0.0)
	Mixed Plastic	5.8	0.1				V	
Enclosure Assembly	Metal	135.9	1.3			V		
	Mixed Metal	0.9	0.0			V		
	Plastic, ABS	474.2	4.6			V		
	Glass	735.9	7.2			V		
	Loss, Plastic	2.2	0.0					V

Product Name/Type			LCD Touch Monitor / ET1729L-$X_1X_2X_3$A-X_4-X_5X_6- $X_7X_8X_9X_{10}X_{11}X_{12}$-G					
Derivative		Weight (g)	Weight (%)		Reuse (%)	Recycling (%)	Incineration (%)	Disposal (%)
PCB / Protection Cover Assembly	Metal	1266.9	12.4			V		
	Mixed Metal	166.3	1.6	Ideal		V (1.6)		
				Re-gular		V (1.2)		V (0.4)
	PVC, PE	27.5	0.3	Ideal		V (0.3)		
				Re-gular			V (0.3)	
	Fibreglass	312.3	3.1	Ideal		V (3.1)		
				Re-gular				V (3.1)
	Loss, Plastic	1.2	0.0					V
Inner Protection Assembly	Metal	1071.1	10.5			V		
	Mixed Metal	3.1	0.0			V		
	PVC, PE	12.6	0.1	Ideal		V (0.1)		
				Re-gular			V (0.1)	
	Polyester	11.0	0.1				V	
Front Metal Frame Assembly	Metal	86.8	0.8			V		
	Aluminium	1.7	0.0			V		
	Polyester	0.3	0.0				V	
	Loss, Plastic	6.0	0.1					V

Product Name/Type			LCD Touch Monitor / ET1729L-$X_1X_2X_3$A-X_4-X_5X_6- $X_7X_8X_9X_{10}X_{11}X_{12}$-G					
Derivative		Weight (g)	Weight (%)		Reuse (%)	Recycling (%)	Incineration (%)	Disposal (%)
Backlight Module / LCD Assembly	Metal	0.2	0.0			V		
	non-Ferrous Metal	193.3	1.9			V		
	Plastic, PMMA	683.9	6.7			V		
	Optical Membrane, PET	69.7	0.7			V		
	Mixed Metal	4.8	0.0	Ideal		V (0.0)		
				Re-gular		V (0.0)		V (0.0)
	Fibreglass	14.0	0.1	Ideal		V (0.1)		
				Re-gular				V (0.1)
	PVC, PE	11.4	0.1	Ideal		V (0.1)		
				Re-gular			V (0.1)	
	Polyester	18.6	0.2				V	
	CCFL	6.1	0.1					V
	Liquid Crystal Glass	375.5	3.7					V
	Loss, Plastic	27.9	0.3					V
	Loss, Metal	0.8	0.0					V
Monitor Power Cable (US / Canada)	Mixed Metal	60.5	0.6			V		
	PVC, PE	141.5	1.4	Ideal		V (1.4)		
				Re-gular			V (1.4)	
USB Touchscreen Cable	Mixed Metal	37.4	0.4			V		
	PVC, PE	60.0	0.6	Ideal		V (0.6)		
				Re-gular			V (0.6)	

Product Name/Type			**LCD Touch Monitor / ET1729L-$X_1X_2X_3$A-X_4-X_5X_6- $X_7X_8X_9X_{10}X_{11}X_{12}$-G**					
Derivative		Weight (g)	Weight (%)		Reuse (%)	Recycling (%)	Incineration (%)	Disposal (%)
Audio Cable	Mixed Metal	12.5	0.1			V		
	PVC, PE	18.8	0.2	Ideal		V (0.2)		
				Re-gular			V (0.2)	
Video Cable	Mixed Metal	85.4	0.8			V		
	PVC, PE	126.6	1.2	Ideal		V (1.2)		
				Re-gular			V (1.2)	
Compact Disc	Plastic, PC	14.0	0.1			V		
	Plastic Powder with Metal Coating	1.5	0.0				V	
Total		**10213.9**	**100.0**	Ideal	**0.0**	**95.3**	**0.4**	**4.3**
				Re-gular		**85.8**	**4.5**	**9.7**

4.3 Product Derivative Summary

	LCD Touch Monitor / ET1729L-$X_1X_2X_3$A-X_4-X_5X_6- $X_7X_8X_9X_{10}X_{11}X_{12}$-G	
	Percentage of Weight (%)	
	Ideal	Regular
Reuse Weight	0.0	
Recycling Weight	95.3	85.8
Incineration Weight	0.4	4.5
Disposal Weight	4.3	9.7
Product Sample Weight	**100.0**	

4.4 Test Result

PASSED

	LCD Touch Monitor / ET1729L-$X_1X_2X_3$A-X_4-X_5X_6-$X_7X_8X_9X_{10}X_{11}X_{12}$-G	
Required Reuse/Recycling Rate	Testing Reuse/Recycling Rate	
	Ideal	Regular
65%	95.3%	85.8%
Required Recovery Rate	Testing Recovery Rate	
	Ideal	Regular
75%	95.7%	90.3%

4.5 Product Component Disassembly Assessment Summary

Component Assessment -1

Component Name		Seat Assembly	
			
Weight, g		2772.8	
Disassembly Tools		Philip Screwdriver, Hand, Slotted Screwdriver	
Connection Technique		Screw ×14 Snap ×4	
Disassembly Time, Sec		88	
Material		Metal：2324.6 g Plastic, ABS：448.2g	
Recycling Evaluation	Reuse Weight, g	-	
	Recycling Weight, g	2272.8	
	Incineration Weight, g	-	
	Disposal Weight, g	-	
Recycling Potential*		Metal	A class
		Plastic, ABS	A class

Component Assessment -2

Component Name		Barcode Scanner Startup Assembly
		
Weight, g		498.2
Disassembly Tools		Hand, Philip Screw Screwdriver
Connection Technique		Snap ×5 Screw ×34 Cable ×7 Welding ×4
Disassembly Time, Sec		220
Material		Metal：55.6g non-Ferrous Metal：183.6g Mixed Metal：58.4g Plastic, ABS：156.1g Plastic, PC：6.0g PVC, PE：8.1g Fibreglass：23.7g Loss, Metal：1.6g Loss, Plastic：5.1g
Recycling Evaluation	Reuse Weight, g	-
	Recycling Weight, g	459.7
	Incineration Weight, g	8.1
	Disposal Weight, g	30.4

Recycling Potential*	Metal	A class
	non-Ferrous Metal	A class
	Mixed Metal	B class
	Plastic, ABS	A class
	Plastic, PC	A class
	PVC, PE	D class
	Fibreglass	-
	Loss, Metal	-
	Loss, Plastic	-

Component Assessment -3

Component Name		Rear Cover	
			
Weight, g		128.0	
Disassembly Tools		Hand	
Connection Technique		Snap ×8	
Disassembly Time, Sec		1	
Material		Plastic, ABS：128.0g	
Recycling Evaluation	Reuse Weight, g	-	
	Recycling Weight, g	128.0	
	Incineration Weight, g	-	
	Disposal Weight, g	-	
Recycling Potential*		Plastic, ABS	A class

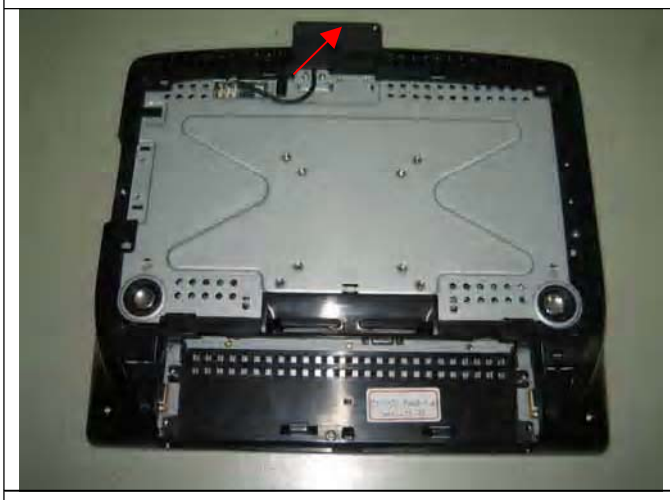
Component Assessment -4

Component Name		Card Reader Assembly	
			
Weight, g		85.9	
Disassembly Tools		Philip Screwdriver, Hand	
Connection Technique		Screw ×7 Cable ×1	
Disassembly Time, Sec		43	
Material		Metal：5.1g Mixed Metal：4.1g Plastic, ABS：34.5g Plastic, PA：38.7g PVC, PE：3.3g Loss, Plastic：0.2g	
Recycling Evaluation	Reuse Weight, g	-	
	Recycling Weight, g	82.4	
	Incineration Weight, g	3.3	
	Disposal Weight, g	0.2	
Recycling Potential*		Metal	A class
		Mixed Metal	B class
		Plastic, ABS	A class
		Plastic, PA	A class
		PVC, PE	D class
		Loss, Plastic	-

Component Assessment -5

Component Name		Customer Display Assembly	
			
Weight, g		336.6	
Disassembly Tools		Philip Screwdriver, Hand, Slotted Screwdriver	
Connection Technique		Screw ×12 Cable ×3 Snap ×8	Glued ×2 Press In ×1
Disassembly Time, Sec		86	
Material		Metal：50.2g Mixed Metal：8.4 g Plastic, ABS+PC：108.7g Plastic, PC：5.2g PVC, PE：8.6g Fibreglass：153.0g Polyester：2.5g	
Recycling Evaluation	Reuse Weight, g	-	
	Recycling Weight, g	172.5	
	Incineration Weight, g	11.1	
	Disposal Weight, g	153.0	
Recycling Potential*		Metal	A class
		Mixed Metal	B class
		Plastic, ABS+PC	C class
		Plastic, PC	A class
		PVC, PE	D class
		Fibreglass	-
		Polyester	-

Component Assessment -6

Component Name		Finger Print Reader Assembly	
			
Weight, g		112.1	
Disassembly Tools		Philip Screwdriver, Hand, Slotted Screwdriver	
Connection Technique		Screw ×13 Cable ×2 Snap ×1	Glued ×2 Combination ×1
Disassembly Time, Sec		84	
Material		Metal：59.9g Mixed Metal：1.0g Plastic, ABS：33.8g Plastic, PMMA：5.8g PVC, PE：2.5g Mixed Plastic：5.8g Fibreglass：3.3g	
Recycling Evaluation	Reuse Weight, g	-	
	Recycling Weight, g	100.5	
	Incineration Weight, g	8.3	
	Disposal Weight, g	3.3	
Recycling Potential*		Metal	A class
		Mixed Metal	B class
		Plastic, ABS	A class
		Plastic, PMMA	A class
		PVC, PE	D class
		Mixed Plastic	-
		Fibreglass	-

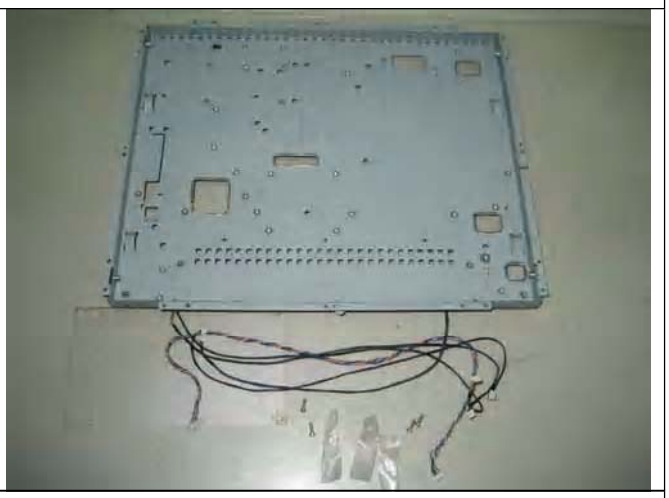
Component Assessment -7

Component Name		Enclosure Assembly	
			
Weight, g		1349.1	
Disassembly Tools		Philip Screwdriver, Hand, Slotted Screwdriver	
Connection Technique		Screw ×18 Combination ×5 Cable ×1	
Disassembly Time, Sec		114	
Material		Metal：135.9g Mixed Metal：0.9g Plastic, ABS：474.2g Glass：735.9g Loss, Plastic：2.2g	
Recycling Evaluation	Reuse Weight, g	-	
	Recycling Weight, g	1346.9	
	Incineration Weight, g	-	
	Disposal Weight, g	2.2	
Recycling Potential*		Metal	A class
		Mixed Metal	B class
		Plastic, ABS	A class
		Glass	A class
		Loss, Plastic	-

Component Assessment -8

Component Name		PCB / Protection Cover Assembly	
			
Weight, g		1774.2	
Disassembly Tools		Philip Screwdriver, Hand, Pliers, Slotted Screwdriver	
Connection Technique		Screw ×40 Glued ×1 Cable ×32 Screw-Hexagon ×2 Press In ×1 Welding ×1	
Disassembly Time, Sec		298	
Material		Metal：1266.9g Mixed Metal：166.3g Fibreglass：312.3g PVC, PE：27.5g Loss, Plastic：1.2g	
Recycling Evaluation	Reuse Weight, g	-	
	Recycling Weight, g	1433.2	
	Incineration Weight, g	27.5	
	Disposal Weight, g	313.5	
Recycling Potential*		Metal	A class
		Mixed Metal	B class
		Fibreglass	-
		PVC, PE	D class
		Loss, Plastic	-

Component Assessment -9

Component Name		Inner Protection Assembly	
			
Weight, g		1097.8	
Disassembly Tools		Philip Screwdriver, Hand, Pliers, Slotted Screwdriver	
Connection Technique		Screw ×4 Glued ×4	
Disassembly Time, Sec		28	
Material		Metal：1071.1g Mixed Metal：3.1g PVC, PE：12.6g Polyester：11.0g	
Recycling Evaluation	Reuse Weight, g	-	
	Recycling Weight, g	1074.2	
	Incineration Weight, g	23.6	
	Disposal Weight, g	-	
Recycling Potential*		Metal	A class
		Mixed Metal	B class
		PVC, PE	D class
		Polyester	-

Component Assessment -10

Component Name		Front Metal Frame Assembly	
			
Weight, g		94.8	
Disassembly Tools		Hand, Slotted Screwdriver	
Connection Technique		Snap ×13 Glued ×5	
Disassembly Time, Sec		18	
Material		Metal：86.8g Aluminium：1.7g Polyester：0.3g Loss, Plastic：6.0 g	
Recycling Evaluation	Reuse Weight, g	-	
	Recycling Weight, g	88.5	
	Incineration Weight, g	0.3	
	Disposal Weight, g	6.0	
Recycling Potential*		Metal	A class
		Aluminium	A class
		Polyester	-
		Loss, Plastic	-

Component Assessment -11

Component Name		Backlight Module / LCD Assembly
		
Weight, g		1406.2
Disassembly Tools		Philip Screwdriver, Hand, Slotted Screwdriver
Connection Technique		Glued ×4 Screw ×4 Combination ×8 Cable ×10
Disassembly Time, Sec		46
Material		Metal：0.2g non-Ferrous Metal：193.3g Mixed Metal：4.8g Plastic, PMMA：683.9g Optical Membrane, PET：69.7g PVC, PE：11.4g Liquid Crystal Glass：375.5g Fibreglass：14.0g CCFL：6.1g Polyester：18.6g Loss, Metal：0.8g Loss, Plastic：27.9g
Recycling Evaluation	Reuse Weight, g	-
	Recycling Weight, g	951.9
	Incineration Weight, g	30.0
	Disposal Weight, g	424.3

Recycling Potential*	Metal	A class
	non-Ferrous Metal	A class
	Mixed Metal	B class
	Plastic, PMMA	A class
	Optical Membrane, PET	C class
	PVC, PE	D class
	Liquid Crystal Glass	-
	Fibreglass	-
	CCFL	-
	Polyester	-
	Loss, Metal	-
	Loss, Plastic	-

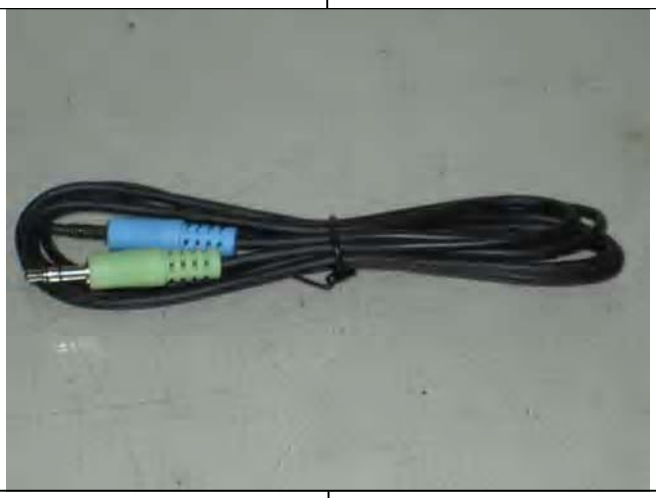
Component Assessment -12

Component Name		Monitor Power Cable (US / Canada)	
			
Weight, g		202.0	
Disassembly Tools		-	
Connection Technique		-	
Disassembly Time, Sec		-	
Material		Mixed Metal：60.5g PVC, PE：141.5g	
Recycling Evaluation	Reuse Weight, g	-	
	Recycling Weight, g	60.5	
	Incineration Weight, g	141.5	
	Disposal Weight, g	-	
Recycling Potential*		Mixed Metal	B class
		PVC, PE	D class

Component Assessment -13

Component Name		USB Touchscreen Cable	
			
Weight, g		97.4	
Disassembly Tools		-	
Connection Technique		-	
Disassembly Time, Sec		-	
Material		Mixed Metal：37.4g PVC, PE：60.0g	
Recycling Evaluation	Reuse Weight, g	-	
	Recycling Weight, g	37.4	
	Incineration Weight, g	60.0	
	Disposal Weight, g	-	
Recycling Potential		Mixed Metal	B class
		PVC, PE	D class

Component Assessment -14

Component Name		Audio Cable	
			
Weight, g		31.3	
Disassembly Tools		-	
Connection Technique		-	
Disassembly Time, Sec		-	
Material		Mixed Metal：12.5g PVC, PE：18.8g	
Recycling Evaluation	Reuse Weight, g	-	
	Recycling Weight, g	12.5	
	Incineration Weight, g	18.8	
	Disposal Weight, g	-	
Recycling Potential*		Mixed Metal	B class
		PVC, PE	D class

Component Assessment -15

Component Name		Video Cable	
			
Weight, g		212.0	
Disassembly Tools		-	
Connection Technique		-	
Disassembly Time, Sec		-	
Material		Mixed Metal：85.4 g PVC, PE：126.6g	
Recycling Evaluation	Reuse Weight, g	-	
	Recycling Weight, g	85.4	
	Incineration Weight, g	126.6	
	Disposal Weight, g	-	
Recycling Potential*		Mixed Metal	B class
		PVC, PE	D class

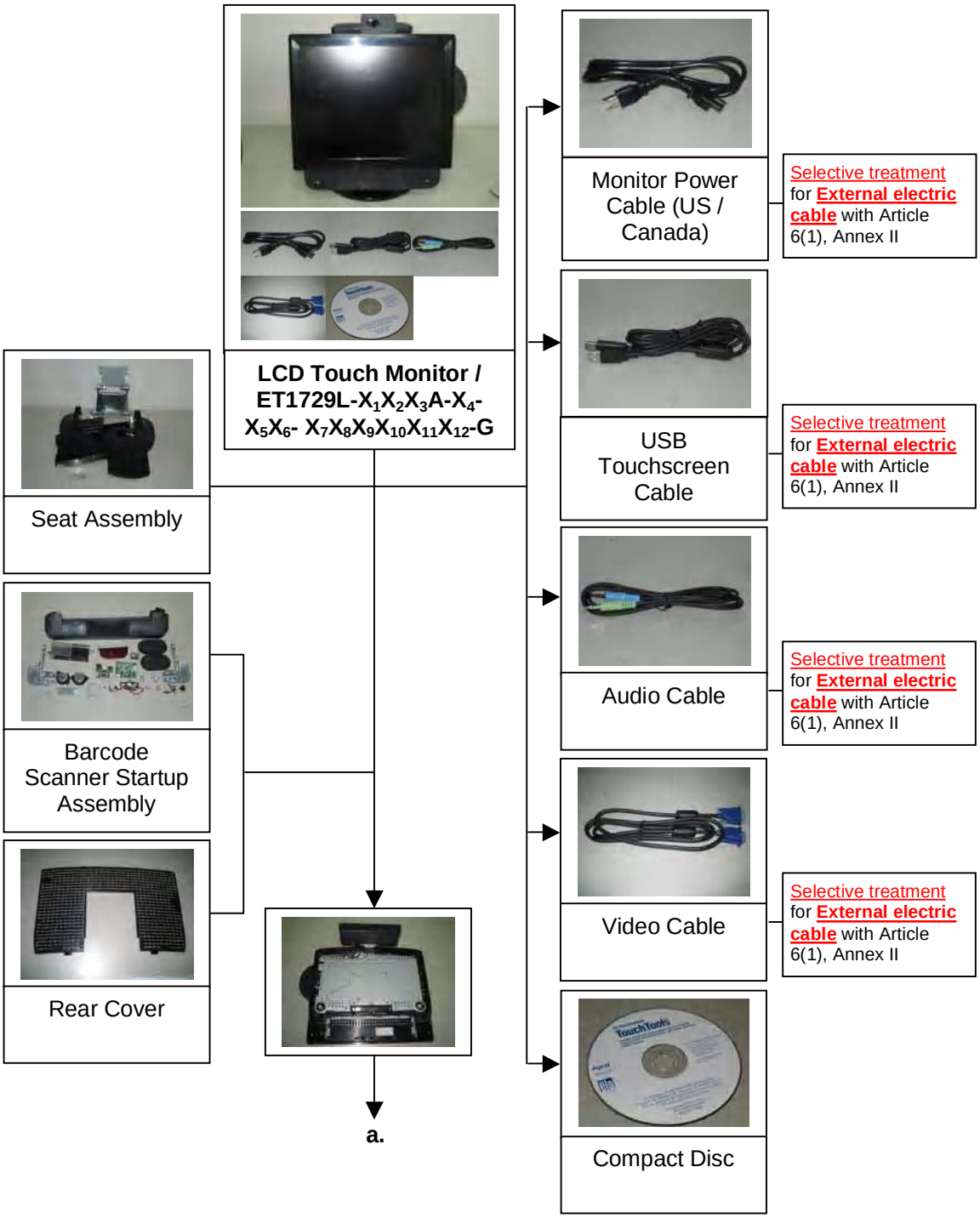
Component Assessment -16

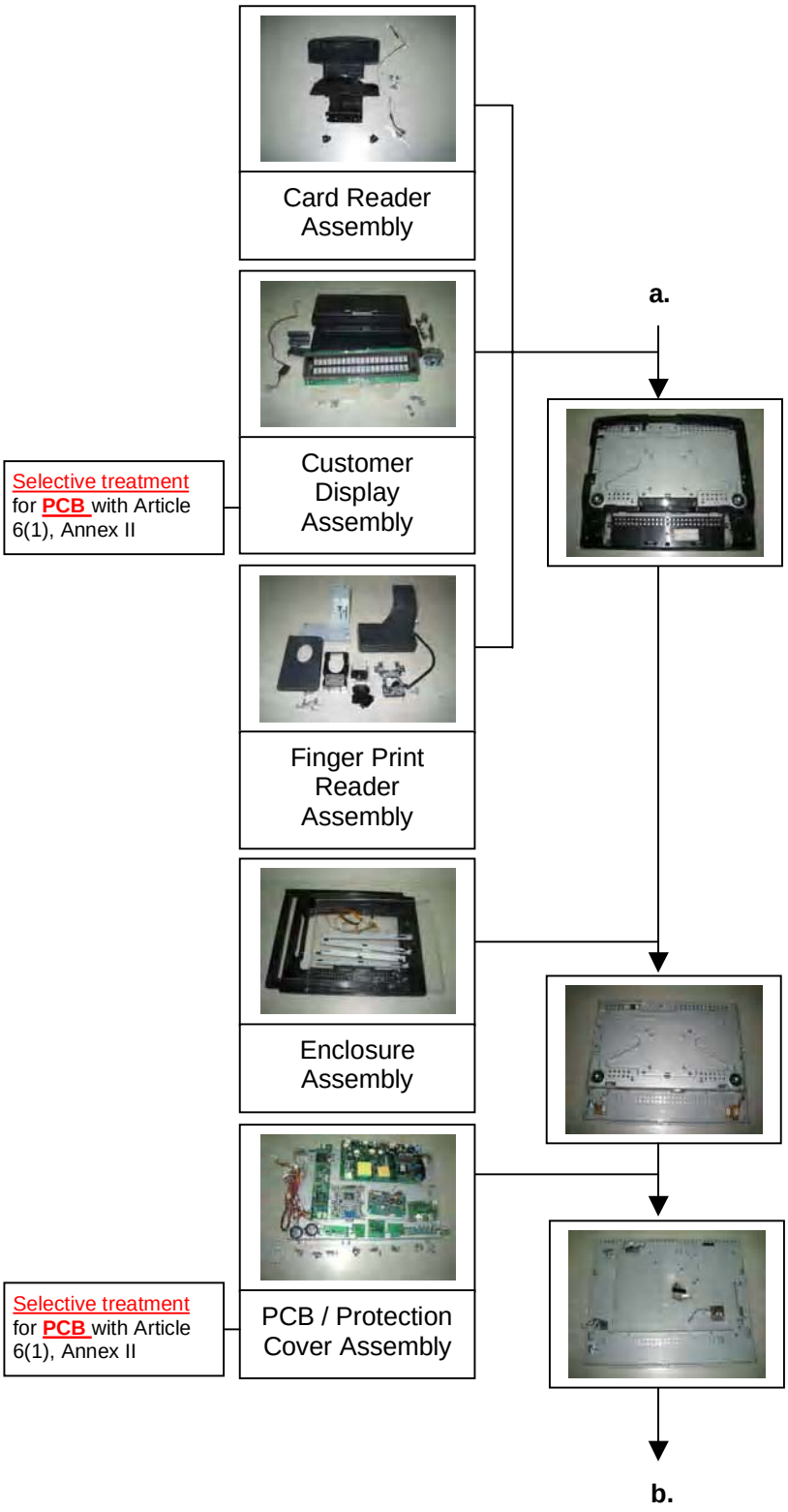
Component Name		Compact Disc	
			
Weight, g		15.5	
Disassembly Tools		-	
Connection Technique		-	
Disassembly Time, Sec		-	
Material		Plastic, PC：14.0g Plastic Powder with Metal Coating：1.5g	
Recycling Evaluation	Reuse Weight, g	-	
	Recycling Weight, g	14.0	
	Incineration Weight, g	1.5	
	Disposal Weight, g	-	
Recycling Potential*		Plastic, PC	A class
		Plastic Powder with Metal Coating	-

4.6 Findings and Recommendations

1.		Plastic parts weighing more than 25 grams should be put the identification mark, according to ISO 11469. Recycling identification mark was not found at all component of this product. It is recommended that place the identification mark and use pure plastic material to increase the recycling potential.
2.		Glued connection is used between liquid crystal glass and plastic component in LCD Assembly, which will cause the possibility of breaking the LCD (hazardous material leaking) and also increase the disassembly time. It is recommended, under functional and safety consideration, change other connection technique that can be easily separated.

4.7 Recommended Disassembly Sequence




Card Reader Assembly
a.
Customer Display Assembly
Selective treatment for PCB with Article 6(1), Annex II
Finger Print Reader Assembly
Enclosure Assembly
PCB / Protection Cover Assembly
Selective treatment for PCB with Article 6(1), Annex II
b.