

GX WEEE Treatment Instructions

Producer:	SMART Technologies ULC	
Product Name:	t Name: SMART SBID-GX Interactive Flat Panel family	
Part/Model Number:	IDGXxx-x	
Date of Report:	2022-01-05	

This sheet is intended to provide instructions to recycling facilities to identify materials, components, and sub-assemblies of interest for the end-of-life treatment in compliance with the WEEE (2012/19/EU) and Batteries (2006/66/EC) Directives and the Ecodesign for Displays (2019/2021) Regulation. The IDGX86-1 is shown here. Other sizes and versions of displays in the GX family are similar.

Materials and Components of Interest Present

Component or Material	Present / Not Present
Capacitors containing polychlorinated biphenyls (PCBs)	Not Present
Batteries	Not Present
Mercury containing components, such as switches or backlighting lamps	Not Present
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	Present
Toner cartridges, liquid and paste, as well as colour toner	Not Present
Plastic containing brominated flame retardants weighing > 25 g	Not Present
Asbestos waste and components which contain asbestos	Not Present
Cathode ray tubes	Not Present
chlorofluorocarbons (CFC), hydrochlorofluorocarbons (HCFC) or hydrofluorocarbons (HFC), hydrocarbons (HC),	Not Present
Gas discharge lamps	Not Present
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	Present
External electric cables	Present
Refractory ceramic fibers	Not Present
Radio-active substances	Not Present
Electrolyte capacitors containing substances of concern (height > 25 mm, diameter > 25 mm or proportionately similar volume).	Not Present
Stored mechanical or electrical energy (e.g. sources of stored energy in high tension circuits, capacitors and springs in compression or tension.)	Not Present

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Capacitors containing polychlorinated biphenyls (PCBs)

Batteries

Mercury containing components, such as switches or backlighting lamps

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 paste, as well as colour toner

Plastic containing brominated flame retardants > 25 grams

Asbestos waste and components which contain asbestos

Cathode ray tubes

chlorofluorocarbons
(CFC),
hydrochlorofluorocarbons
(HCFC) or
hydrofluorocarbons
(HFC), hydrocarbons
(HC),

Gas discharge lamps

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

External electric cables

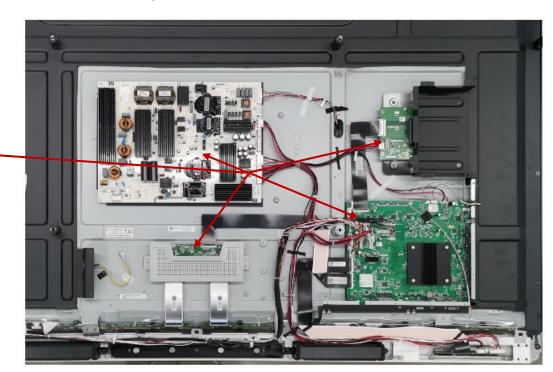
Refractory ceramic fibers

Radio-active substances

Electrolyte capacitors containing substances of concern (height > 25 mm, diameter > 25 mm or proportionately similar volume).

Stored mechanical or electrical energy (e.g. sources of stored energy in high tension circuits, capacitors and springs in compression or tension.)

Materials and Components of Interest Locations







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Disassembly Tools

The following tools are required for WEEE disassembly:

- Phillips #2 screwdriver
 Side cutter
 Pliers

Disassembly Steps

Step	Picture	Operation	Tools
1		Remove 8 handle screws Remove 4 handles Remove 4 bezel corner screws Remove 4 bezel corners	Screwdriver
2		1. Remove 21 M4x6mm screws	Screwdriver
3		1. Remove 15 M3x6mm screws	Screwdriver

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Step	Picture	Or	peration	Tools
4		1. 2.	Remove 15 M4x6mm screws Remove outer rear cover	Screwdriver
5		1. 2. 3.	Remove speaker cables Remove 8 M3x6mm screws Remove speakers	Screwdriver
6		1. 2. 3. 4.		Screwdriver
7		1. 2. 3.	Remove 10 M3x6mm screws Remove 5 M4x6mm screws Remove lower rear cover	Screwdriver

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Step	Picture	Operation	Tools
8		Remove 2 M4x6mm screws Remove connector faceplate	Screwdriver
9		Remove cable ties and clamps	Side cutters
10		1. Unplug all wires	
11		Remove 6 M3x6mm screws Remove main board	Screwdriver
12		Remove 5 M3x6mm screws Remove OPS adapter plate and WiFi board fixed bracket	Screwdriver

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Step	Picture	Operation	Tools
13		Remove 6 M3x6mm screws Remove power supply board	Screwdriver
14		Remove 4 M346mm screws Remove OPS guide bracket	Screwdriver
15	A	Remove 4 M3x6mm screws Remove 3 M4x6mm screws Remove OPS mounting bracket and side connector faceplate	Screwdriver
16		Remove 16 M4x5mm screws Remove LCM brackets	Screwdriver

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Step	Picture	Operation	Tools
17		Remove 2 M3x6mm screws Remove 5 pieces of BoPET tape	Screwdriver
18		Remove 6 M3x6mm screws Remove rear cover supports	Screwdriver
19		Remove 11 M3x6mm screws Remove cable clamps	Screwdriver
20		Remove 2 M3x6mm screws Remove 1 M4x5mm grounding screw Remove connector plate support	Screwdriver
21		Remove 2 M3x6mm screws Remove button panel support	t Pliers

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Step	Picture	Operation	Tools
22		Turn display face-up Remove the touchscreen glass	
23		Remove 32 M3x3.3mm screws Remove glass brackets	Screwdriver
24		1. Remove EVA pad	
25		Remove 4 M3x6mm screws Remove pen wells	Screwdriver

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Step	Picture	Operation	Tools
26		Remove 2 M3x6mm screw Separate buttons from keypad Separate light guide from buttons	Screwdriver
27		Remove 4 M3x6mm screw Separate adapter plate froi bracket	
28		Remove 4 M5x8mm screw Separate speakers from speaker holders	Screwdriver
29	AAA	Remove 2 M3x6mm screw Remove wires from switch bracket	
30		Remove screws from beze corner plates Remove corner plates from bezel	Screwdriver

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Step	Picture	Operation	Tools
31	All the set to have the hard the set of hard t	Remove touch PCBAs from bezel	

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WEEE Assessment

Materials used in the IDGX65-1 are shown in Table 1.

Category	Mass (g)	Percentage
Plastic	62	0.08%
Metal	19,010	24.69%
Glass	17,299	22,47%
Rubber	0	0.00%
Other	503	0.65%
	Annex VII	
Cables	314	0.41%
PCBA	2,312	3.00%
LCD	37,500	48.70%
Total	77,003	100.00%

Table 1: Materials

Material ratios in other sizes and generations are comparable.

An assessment of recyclability is shown in Table 2.

Recyclability Classification	Mass (g)	Per cent
Reuse(A)	0	0%
Recycle(B)	76,500	99%
Energy Recovery(C)	0	0%
Disposal(D) = (E) - [(A) + (B) + (C)]	503	1%
Product Weight(E)	77,003	100%
R1:Reuse&Recycled=(A)+(B)	76,500	99%
R2:Recovery=(A)+(B)+(C)	76,500	99%

Table 2: Recyclability