



WEEE Treatment Instructions

Producer:	SMART Technologies ULC
Product Name:	SMART SBID-MX Interactive Flat Panel family
Part/Model Number:	IDXxx-x
Date of Report:	2024-03-01

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. There are minor differences between sizes and models within the MX family.

Materials and Components of Interest Present

Component or Material	Present / Not Present
Capacitors containing polychlorinated biphenyls (PCBs)	Not Present
Batteries	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	Present (in parts < 25 g)
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



Materials and Components of Interest Locations

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 (see page 4)

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

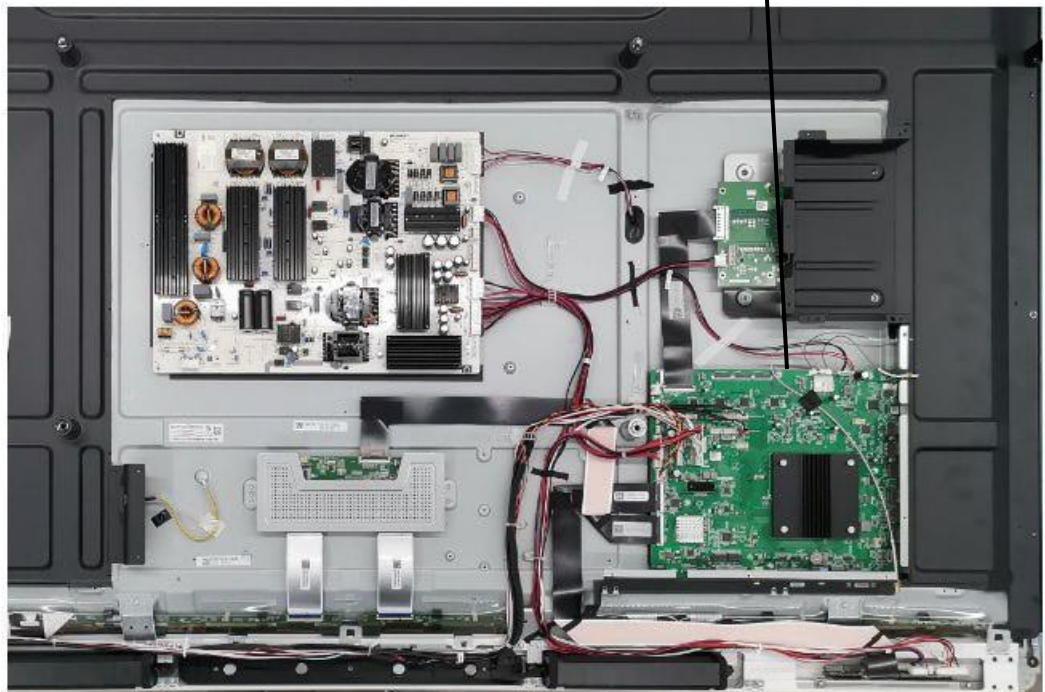
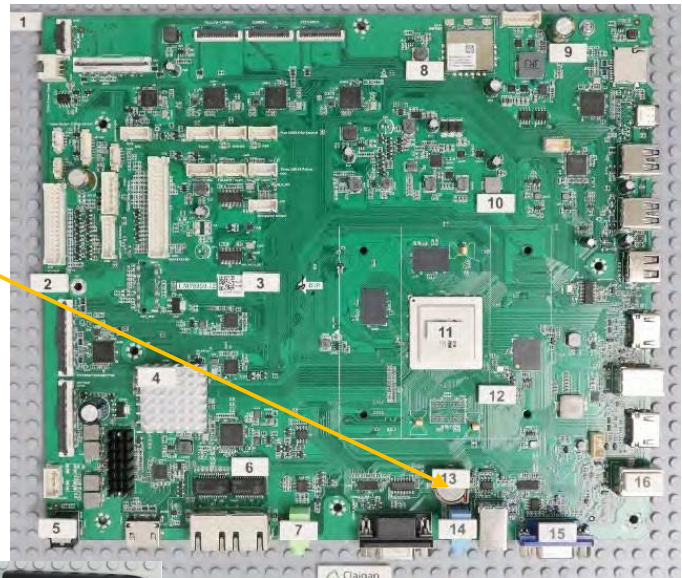
Refractory ceramic fibers

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.)

Remove battery from holder by hand.





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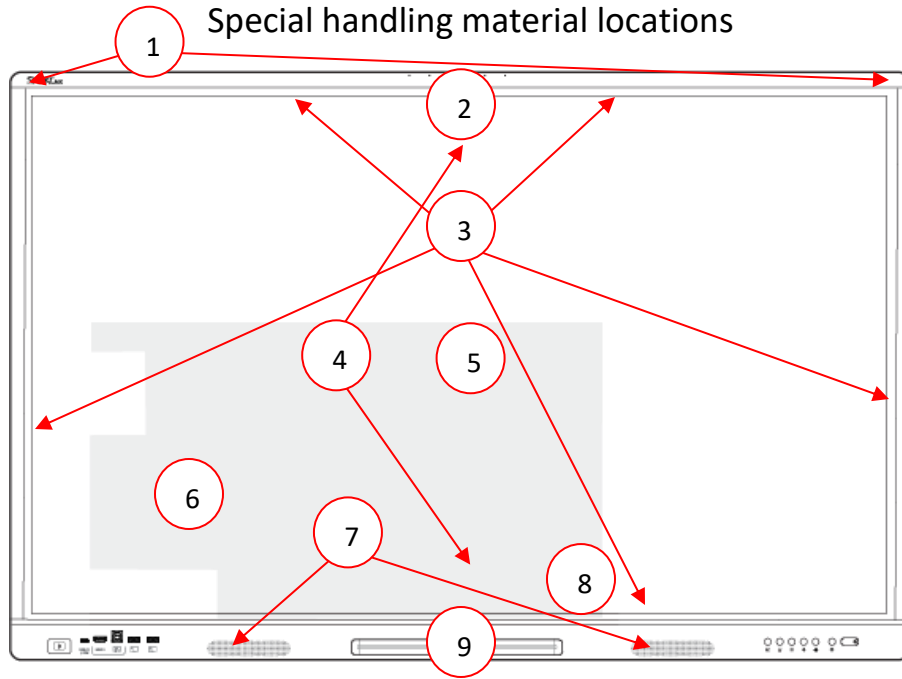
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No.	Type	Location	Quantity
1	Br in plastic	Top corners	2
2	Br in plastic	Behind microphone on the top frame (behind cover)	1-3
3	PCB	Bezel around the screen	10-12
4	Br in plastic	Centerline middle of the display, near the top and bottom	6
5	Br in plastic	Middle of the display	1
6	PCB	Back of the IFP (behind cover)	5
7	PCB	Behind speakers	2
8	Br in plastic	AC connector housing and switch	1
9	PCB	Bottom frame	3-4

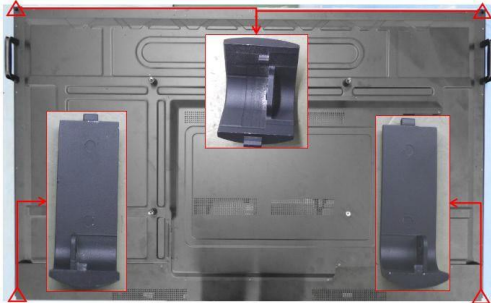
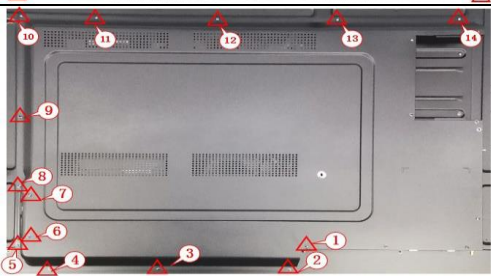
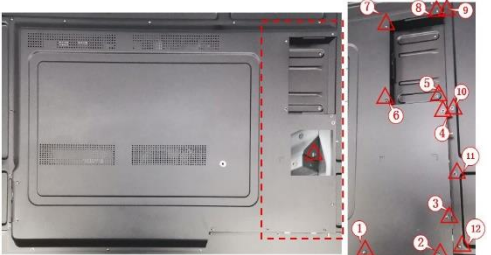


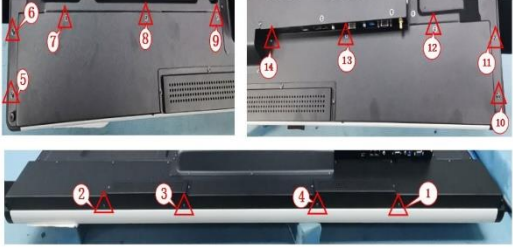
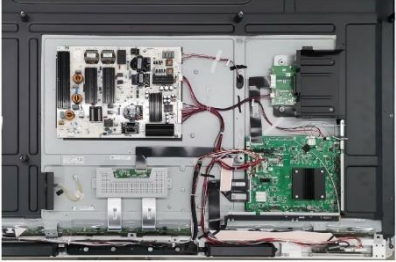
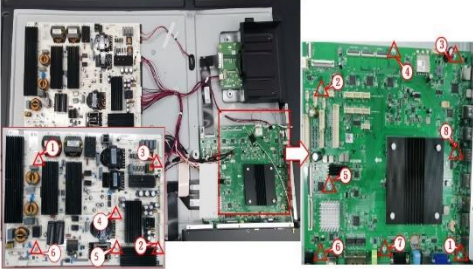
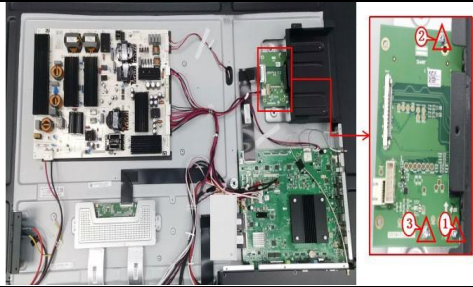
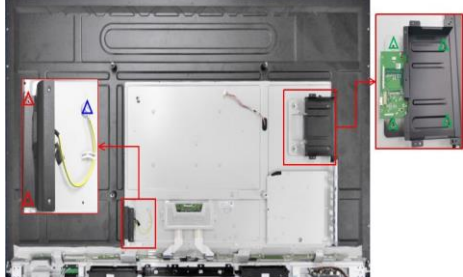
Disassembly Tools

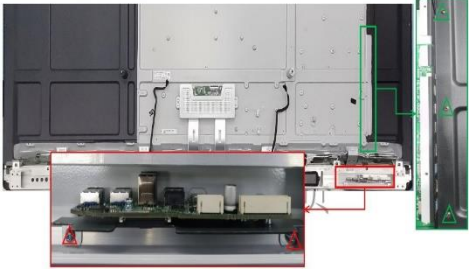

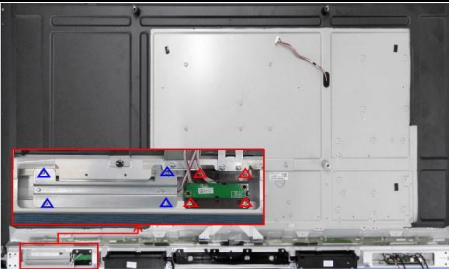


The following tools are required for WEEE disassembly:


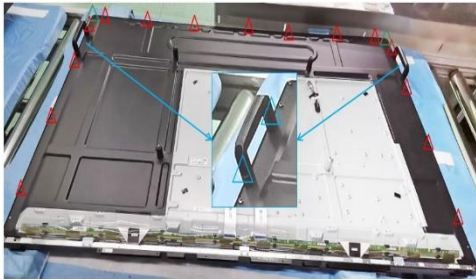

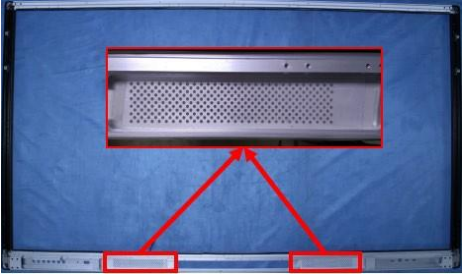

1. Phillips #2 screwdriver
2. Side cutter
3. Pliers

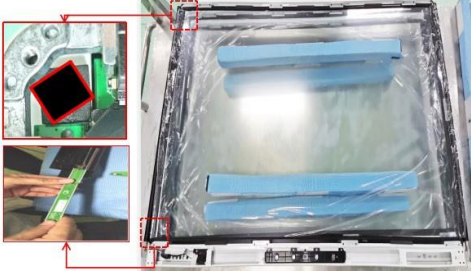
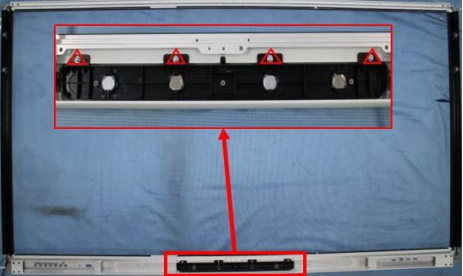
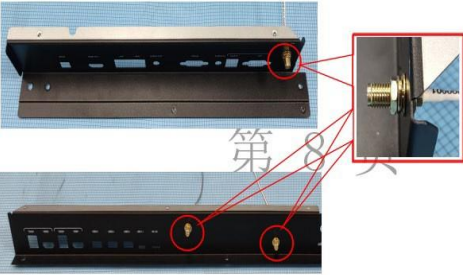
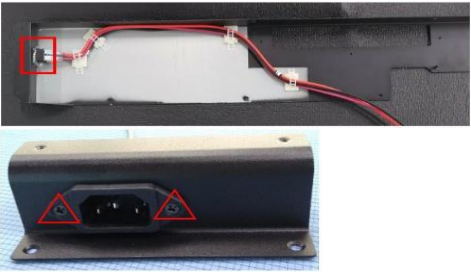

Disassembly Steps





No	Picture	Operation	Tool
1		1. Remove 4 M3x28mm screws 2. Remove 4 bezel corners	Screwdriver
2		1. Remove 14 M3x6mm screws	Screwdriver
3		1. Remove 12 M3x6mm screws 2. Remove rear cover	Screwdriver

4		1. Remove 13 M3x6mm screws 2. Remove lower rear cover	Screwdriver
5		1. Remove all tapes, cable ties and wires	Side cutter
6		1. Remove 14 M3x6mm screws 2. Remove the power board and motherboard	Screwdriver
6a		1. Remove battery from holder.	
7		1. Remove 3 M3x6mm screws 2. Remove the OPS adapter board	Screwdriver
8		1. Remove 1 M4x5mm screw 2. Remove 6 M3x4mm screws 2. Remove the AC switch bracket and OPS adapter bracket	Screwdriver

9		<ol style="list-style-type: none"> 1. Remove 5 M3x6mm screws 2. Remove board bracket and side IO faceplate 	Screwdriver
10		<ol style="list-style-type: none"> 1. Remove 7 M3x6mm screws 2. Remove cable tie 	Screwdriver
11		<ol style="list-style-type: none"> 1. Remove 4 M3x6mm screws 2. Remove 4 M3x7mm screws 3. Remove button board bracket and remote control board bracket 	Screwdriver
12		<ol style="list-style-type: none"> 1. Remove 4 M3x6mm screws 2. Remove speaker bracket 	Screwdriver
13		<ol style="list-style-type: none"> 1. Remove 4x4 M3x5mm screws 2. Remove speaker brackets 	Screwdriver

14		<ol style="list-style-type: none"> 1. Remove 10 M3x6mm screws 2. Remove screen hold-down brackets 	Screwdriver
15		<ol style="list-style-type: none"> 1. Remove 15 M3x5mm screws 2. Remove 4 M3x7mm screws 3. Remove 2 handles 	Screwdriver
16		<ol style="list-style-type: none"> 1. Turn display face-up 2. Lift bezel assembly to separate it from screen 	
17		<ol style="list-style-type: none"> 1. Remove the front adapter plate bracket and side IO faceplate 2. Pull off speaker covers 	
18		<ol style="list-style-type: none"> 1. Remove 14 M3x4mm screws 2. Remove 4 M4x4.5mm screws 3. Remove glass wedges 	Screwdriver

19		1. Remove touch kit circuit boards	
20		1. Remove 4 M3x6mm screws 2. Remove pen tray	Screwdriver
21		1. Remove WiFi antenna	Pliers
22		1. Remove 2 M3x6mm screws 2. Remove switch, AC cord connector and wire	Screwdriver
23		1. Remove 3 M3x6mm screws 2. Remove signal connector board	Screwdriver

24		<ol style="list-style-type: none"> 1. Remove 4 M5x8mm screws 2. Remove speaker brackets 	Screwdriver
25		<ol style="list-style-type: none"> 1. Remove pen holder magnets 	Pliers
26		<ol style="list-style-type: none"> 1. Remove 2 M4x6mm screws 2. Remove buttons and button board bracket 	Screwdriver
27		<ol style="list-style-type: none"> 1. Remove status indicator bracket and board 2. Remove cables from status indicator board 	Pliers



WEEE Assessment

Materials used in the IDX065-3 are shown in Table 1.

Category	Mass (g)	Percentage
Plastic	67	0.17%
Metal	10,259	25.48%
Glass	10,100	25.09%
Rubber	0	0.00%
Other	576	1.43%
<i>Annex VII</i>		
Battery	3	0.01%
Cables	336	0.84%
PCBA	1,948	4.84%
LCD	16,967	42.15%
Total	40,256	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%
Recycled(B)	39,680	99%
Energy Recovery(C)	0	0%
Disposal(D)=(E)-[(A)+(B)+(C)]	576	1%
Product Weight(E)	40,256	100%
R1:Reuse&Recycled=(A)+(B)	39,680	99%
R2:Recovery=(A)+(B)+(C)	39,680	99%

Table 2: Recyclability