

SPECIFICATION

Product Name : 8~55 inch Projected Capacitive Touch Screen

Date: 2017/11/23



KeeTouch Approve

Approved by	Checked by	Designed by
Bruce Kang	Bruce Kang	Joe

1. General Specification

1.1 Definition

It's a kind of projected touch screen with USB interface. It can support Windows XP 1 point touch, Win7, Win8 OS and can realize 10 points touch.

1.2 Features and General Specification

Item	Contents
Type	Projected touch screen
Size	8~55 inch can be customize
Thickness	3.9±0.3mm
Outline Dimension	See the appendix
Active Area(W*L)	
View Area	
Interface Type	USB control board
Cover lens thickness	3.00mm
Total	3.9mm
Number of touch point	1point touch in XP, 10 points touch in win7, win8 OS
Input voltage	5v
Transparency	≥85%
Input	Hand writing or capacitive pen
Surface Hardness	≥6H

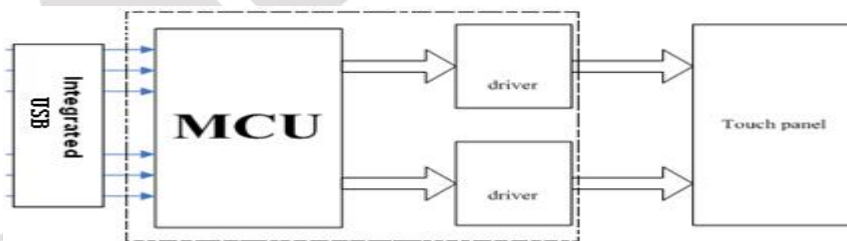
2. Reliability

Item	Specification	Remark
Working temperature and humidity	-10~+60°C, 40-70% RH	
Storage temperature and humidity	-20~+70°C, 40-70% RH	
High Temperature Storage	70°C, 240hrs	
Low Temperature Storage	-20°C, 240hrs	Non-condensing
High Temperature Operation	60°C, 24hrs	
Low Temperature Operation	-10°C, 24hrs	Non-condensing
Thermal shock	-20 ~ +70°C, 60 mins/cycle, total 10 cycles	

3. Touch Screen Description

3.1 Touch screen drawing
See the appendix.

3.2 Block diagram

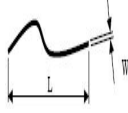
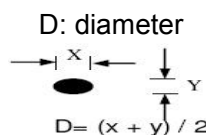
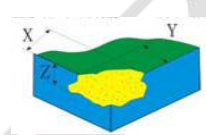
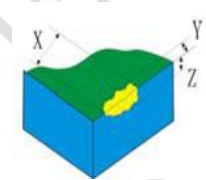
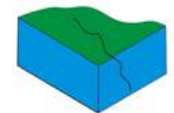


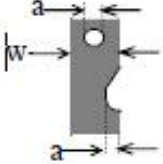
3.3 Touch screen pin assignment

Pin1	Symbol	Description
1	GND	Power ground.
2	VCC	Power supply.
3	GND	Power ground.
4	D+	Signal
5	D-	Signal

4. Appearance Inspection

4.1 External appearance examination standard

Item	Inspection Standard	Defect Classification				Judge
		ACC	MI	MA	CR	
Linear object(including scratch and fiber) W:width L: length 	$W \leq 0.08\text{mm}$, ignore	★				PASS
	$0.08 \text{ mm} < W \leq 0.2 \text{ mm}$, $L \leq 10\text{mm}$, to allow 3pcs, the distance is 30mm above	★				PASS
	$W > 0.2\text{mm}$, $L > 10\text{mm}$		★			NG
Particle(Speaking, white dot and black dot) D: diameter  $D = (x + y) / 2$	$D \leq 0.2 \text{ mm}$, ignore	★				PASS
	$0.2 \text{ mm} < D \leq 0.35 \text{ mm}$, to allow 3pcs, the distance is 30mm above	★				PASS
	$0.35\text{mm} < D \leq 0.5 \text{ mm}$, to allow 4pcs, the distance is 30mm above	★				PASS
Corner-chipping 	$D \leq 0.35\text{mm}$, to allow 5pcs, the distance is 30mm above	★				PASS
	$D > 0.35\text{mm}$		★			NG
Side-chipping 	$D \leq 1.5\text{mm}$, to allow 3pcs	★				PASS
	$D > 1.5\text{mm}$		★			NG
	Corner-chipping / Side-chipping don't hurt the circuit and not visible in the	★				PASS
	Corner-chipping / Side-chipping hurt the circuit and is visible in the front side.			★		NG
Glass crack 	Viewable area: the highest to the lowest is 0.7~1.5mm	★				PASS
Ink light leaking	Camera hole: the highest to the lowest is 0.6~1.0mm	★				PASS
	LOGO the highest to the lowest is $\leq 0.2\text{mm}$	★				PASS

Surface dirt	IR hole through the tolerance ± 6	★			PASS
	IR hole $0.15 \text{ mm} < D \leq 0.3 \text{ mm}$, allow 5pcs	★			PASS
FPC defect 	The edge area light-leaking width $\leq 0.4 \text{ mm}$	★			PASS
	The edge area light-leaking width $> 0.4 \text{ mm}$		★		NG
	ITO surface is not allowed to have the smudge or watermark which is unable to clean			★	
FPC fracture	Unable cleaning smudge refer to particle inspection standard			★	-

5. Notice

5.1 Notice

- 5.1.1 Due to the system of capacitive touch screen is made of glass, please do not hit it with great force, or fall from height.
- 5.1.2 Please do not stack up touch screens. Don't load on touch screen.
- 5.1.3 Please do not put the capacitive touch screen itself or FPC direct contact with metal material.
- 5.1.4 When assembling, please do not bend or strength to pull FPC, avoid to cause the injured.
- 5.1.5 When assembling, please do not touch the ink face of back of touch screen, avoid to Scratches.
- 5.1.6 When assembling, please do not contact the visual area, if have dirty in visual area, recommend the use of anhydrous ethanol to clean.
- 5.1.7 Operation of the capacitive touch screen, to use finger or conductive touch pen, please avoid high voltage and static electricity.

5.2. Other instructions:

- 5.2.1 Not mentioned in this inspection standard in project, to reconfirmed drawings or specs.
- 5.2.2 When have quality issue, to follow up this standard, approved specification and approved samples. Others, will be discuss one by one.

5.3.Suggest:

- 5.3.1 The finished product protection film is used to protect finished product in the process of the goods shipped to the customer, prevent the finished goods delivery process in the environmental impact, so the protective film surface is unable to guarantee that there are no scratches or dirt, the finished product protection film Strongly do not recommend to use in client follow-up process.
- 5.3.2 Storage condition:
 - 5.3.2.1 Suggest to keep the products at temperature $23\pm 3^{\circ}\text{C}$ and humidity 40%~70%RH and Storage can not be more than 6 months.
 - 5.3.2.2 Suggest to keep the materials no more than 3 months in normal condition.
- 5.3.3 Advising clients to peel off protective film from touch screen, then it's necessary to do cleaning and inspection before assembling. Don't put the used protective film back to touch screen.
- 5.3.4 It is strongly recommended that clients to remove the protective film in clear room, to clear the surface with Ethanol anhydrous before assembling.

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