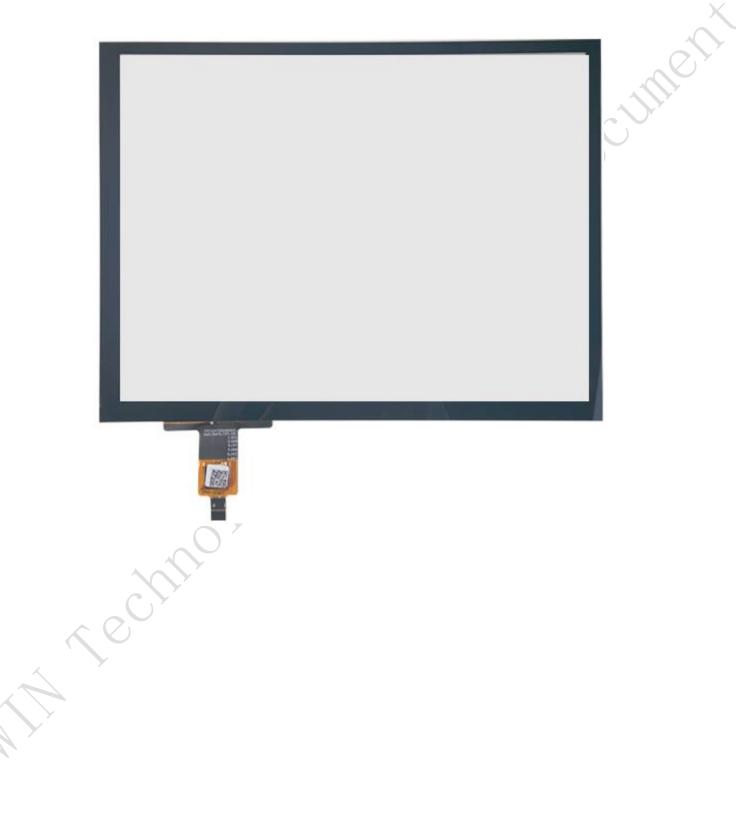
TPC104T0008G01V1

10.4 inch, G+G structure capacitive touch panel



Disclaimer: The product design is subject to alternation and improvement without prior notice.

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1 Structure

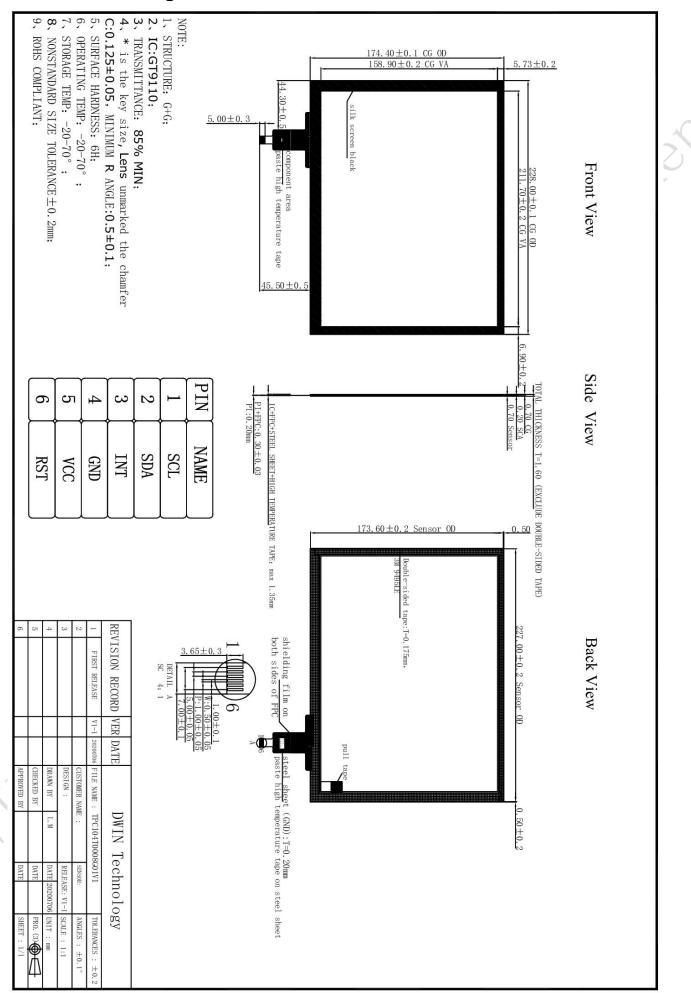
Structure	Materials Description		
Cover Lens	Glass	Thickness:0.70mm	
SCA	Adhesive	Thickness:0.20mm	
Sensor	Glass	Thickness:0.70mm	

2 General Features

Item	Description	Unit
Connection	COF	-
Screen Size	10.4	inch
Physical Dimension	228.0(W)* 174.4(H)*1.6(T)	mm
View Area	211.7(W)*158.9(H)	mm
Tail Length	45.5±0.5	mm
Surface Hardness	6Н	-
Interface Type	l ² C	-
Touch IC	GT9110	-
Operating Temperature	-20~70	°C
Storage Temperature	-20~70	°C

Note: Compliant with the latest ROHS directive.

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4 PIN Definition

PIN	Signal	Description	
1	SCL	I ² C Serial Clock Input	
2	SDA	I ² C Serial Data Input And Output	
3	INT	Interrupt	
4	GND	Ground	
5	VCC	Power Voltage	
6	RST	Reset	

5 Optical Characteristics

Item	Value	Remark
Light Transmittance	≥85%	<u>-</u>

Note: Light source C-light (Measure point: Center of the point)

6 Reliability Condition

No.	Test Items	Test Condition	Remark
1	High Temperature Storage	70℃±2℃×72Hours	
2	Low Temperature Storage -20°C±2°C×72Hours		
3	High Temperature, High Humidity Storage	60℃,90% RH 72Hours	
4	Thermal Shock	-20℃(30min)~25℃(5min)~60℃(30min), 50cycles.	
5	ESD	AIR: ±8KV. TOUCH: ±4KV.	
6	Ball Drop	Ball 25.4mm/64g/40cm drop one time on the center of lens VA, no defect.	

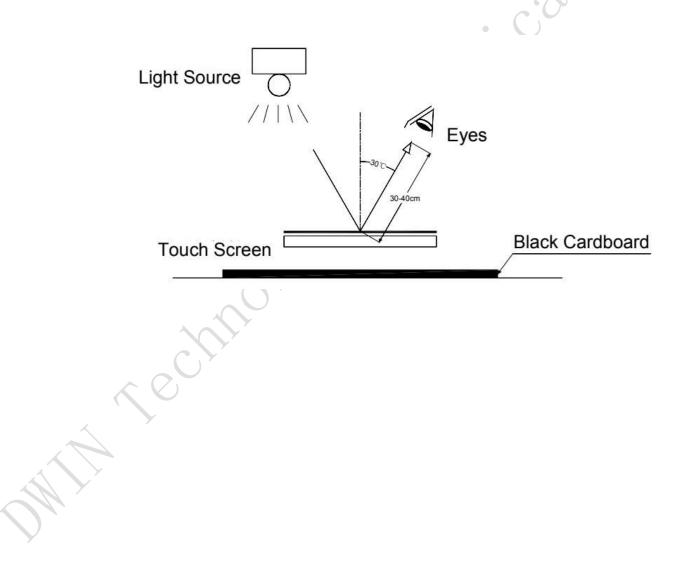
7 Appearance Testing

7.1 Inspection Scope

This standard only applies to the view area. That is, all the appearance of bad, as long as it is outside the visible area, will not affect the product function and are not taken into account; all stains that can be wiped off with a soft cloth with neutral detergent or isopropyl alcohol are not taken into account. Definition of visible area: the area visible to the customer after assembly (generally the front window of the glass). The visible area of the panel includes the front screen-printed border of the panel and the window of the panel.

7.2 Inspection Conditions

Healthy adults with visual acuity of 1.0 and above (with glasses or not), under a cool white fluorescent lamp of 20-40W (requiring the illumination of the inspection table between 500~1000 Lux), at a distance of 30-40 cm between the object and the inspector's eyes, and with black and white cardboard below the product as a backdrop, each piece of product inspection time does not exceed 12 seconds. As shown below.



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7.3 Appearance Defect&Damage

View area(cover)

ltem	Specifications	Judgment Content		
nem	Specifications	View Area		Outside the VA
	D≦0.25mm		Negligib	le
Spotted Foreign	0.25mm <d≪0.3mm< td=""><td>N≪4(spacing at least10 more)</td><td>0MM or</td><td>Negligible</td></d≪0.3mm<>	N≪4(spacing at least10 more)	0MM or	Negligible
Object	0.3mm <d≤0.35mm< td=""><td>N≤3(spacing at least10 more)</td><td>OMM or</td><td>Negligible</td></d≤0.35mm<>	N≤3(spacing at least10 more)	OMM or	Negligible
	D>0.35mm	Fault		Negligible
	W \leq 0.03mm or L $<$ 2.0mm		Negligib	le
Linear Foreign	0.03 <w≤0.04mm And L≤3mm</w≤0.04mm 	N≪4(spacing at least10 more)	OMM or	Negligible
Object	0.04≪W≪0.05mm And L≪3mm	N≤3(spacing at least1 more)	0MM or	Negligible
	0.05mm <w< td=""><td colspan="2">Judged by the specifications of the punctate foreign body</td><td>Negligible</td></w<>	Judged by the specifications of the punctate foreign body		Negligible
W≦0.03mm				
Quartel	0.03 <w≤0.04mm And L≤5mm</w≤0.04mm 	Negligible		le
Scratch	0.04 <w≪0.05mm And L≪20mm</w≪0.05mm 	N \leq 3(spacing at least10MM or more) and DS $>$ 10n		r more) and DS>10mm
	0.05mm <w< td=""><td colspan="2">Judged by the specifications of point foreign body</td><td>of point foreign body</td></w<>	Judged by the specifications of point foreign body		of point foreign body
		ne entire screen into 9 pa		
	2. Distance	between two defects \geq 5	1	
	D<0.20mm	Negligible	Applied to 0.2mm or more in from the view area edge	
Air Bubbles Inside Adhesive	0.20mm <d≤0.30mm< td=""><td>N≪4 and DS>10mm</td><td colspan="2">Black frame area</td></d≤0.30mm<>	N≪4 and DS>10mm	Black frame area	
	0.30mm <d≤0.35mm< td=""><td>N≪3 and DS>10mm</td><td>View ar</td><td>ea — — — [applied area]</td></d≤0.35mm<>	N≪3 and DS>10mm	View ar	ea — — — [applied area]
	0.35mm <d< td=""><td>Fault</td><td></td><td></td></d<>	Fault		

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	Fragments (Surface)	X≪0.5mm, Y≪0.5mm, Z≪1/2glass thickness	/ /	X Y	Negligible	
Fragments	Fragments (Back)	X≪0.5mm, Y≪0.3mm, Z≪1/2glass thickness	/ /	X	Negligible	
	Progres	sive crack	/ /		Fault	
	D≤	≦0.2			Negligible	
Pinhole	0.2 <d< td=""><td>≪0.3mm</td><td> </td><td><u>Gl</u>ass edge 0.3mm (Ignored)</td><td>Ignored up to 1pcs</td><td></td></d<>	≪0.3mm		<u>Gl</u> ass edge 0.3mm (Ignored)	Ignored up to 1pcs	
	0.3m	nm <d< td=""><td>Black</td><td>frame applied area</td><td>Fault</td><td></td></d<>	Black	frame applied area	Fault	

7.4 Others

This datasheet basically informs the product characteristics. You can contact us if you have further requirements.

8 Precautions for Use of Touch Screen

8.1 Storage

8.1.1 The products should be stored within the storage temperature and humidity range, excluding any external loads.

8.1.2 The products should be stored in a suitable packing box.

8.1.3 Do not expose the product to water, organic solutions or acids for use or storage.

8.1.4 Do not expose the product to direct sunlight.

8.2 Unpacking

8.2.1 When you handle the product, hold the product by its body. Do not hold by the FPC tail.

8.2.2 Before opening the box, check the "UP/ DOWN" indicator.

8.3 Handling

8.3.1 When you handle the product, do not touch the sensor A.A area to avoid damage to the touch panel.

8.3.2 Please be careful not to exert any pressure on the heat-sealed FPC, heavy pressure may cause malfunction.

8.3.3 Do not depress or scratch the product with any object with a sharp edge to avoid scratch to the product surface.

8.3.4 Do not forcibly bend or fold the product.

8.3.5 Do not put heavy objects on the product.

8.3.6 Clean the product with a soft cloth or that with neutral detergent or alcohol. When contaminated by chemicals, wipe them off immediately with caution to avoid injury to human body.

8.4 Mounting

8.4.1 After removing the protective film and re-laminating it to the product surface, make sure the product surface is free of dirt.

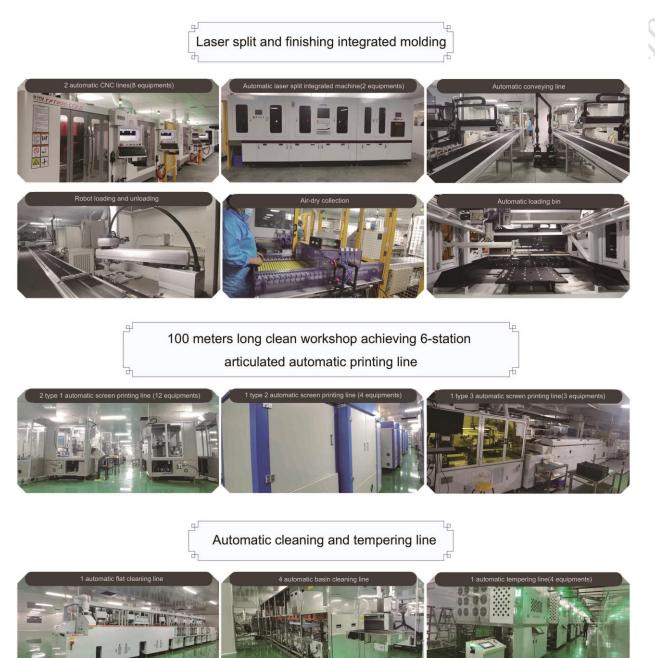
8.4.2 When installing the bezel design, try to reduce the pressure of the bezel edge on the touch screen.

8.4.3 The end of the FPC must not be forcefully stressed or excessively bent to avoid conduction in the insulated area and break the wire.

9 TP Introduction

9.1 Process capacity

DWIN adopts the advanced laser cutting and CNC finishing cover production process in a total of 15,000 square meters of clean workshop, which centralized capacitive touch screen manufacturing of cover, ITO glass, nano-silver film, and back-end lamination, with a monthly output of about 1 million pieces.



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9.2 ODM service

Customized sample orders are completed by the prototype line, and sample delivery is shortened to less than 5 days; after the deal is made, the order enters into 24H fully automated production line production, and the OCA lamination yield is up to 99.3% or more in large volume uninterrupted production. The ODM services available are as follows.

9.2.1 Form factor

- 1. Non-conventional size within 0.9~37 inch
- 2. Circular screen
- 3. Cover shape: fillet, irregular and chamfer
- 4. Silkscreen color
- 5. Logo



Non-conventional size within 0.9-37 inch



Circular screen

Cover shape



Silkscreen color



9.2.2 Process

- 1. 2.5D solid
- 2. Visible in sunlight
- 3. Optical blinding
- 4. OCA full lamination
- 5. GFF ultra-thin



Packing Capacity & Dimension

Dimension				
Dimension(mm)	228.0(W)* 174.4(H)*1.6(T)			
Net Weight	-			
Packing Capacity				
Size	LCD Size	Layer	Quantity(Pcs)	
320mm(L)x270mm(W)x80mm(H)	10.4 inch	1	1	
600mm(L)x450mm(W)x300mm(H)	10.4 inch	1	40	

Record of Revision

Rev	Date	Description	Editor
00	2023-04-23	English Version	Chen

Please contact us if you have any questions about the use of this document or our products, or if you would like to know the latest information about our products:

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Thank you all for continuous support of DWIN, and your approval is the driving force of our progress!