HR4 8545 10.4

10.4 inch, four-wire resistive touch panel



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

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1 Structure

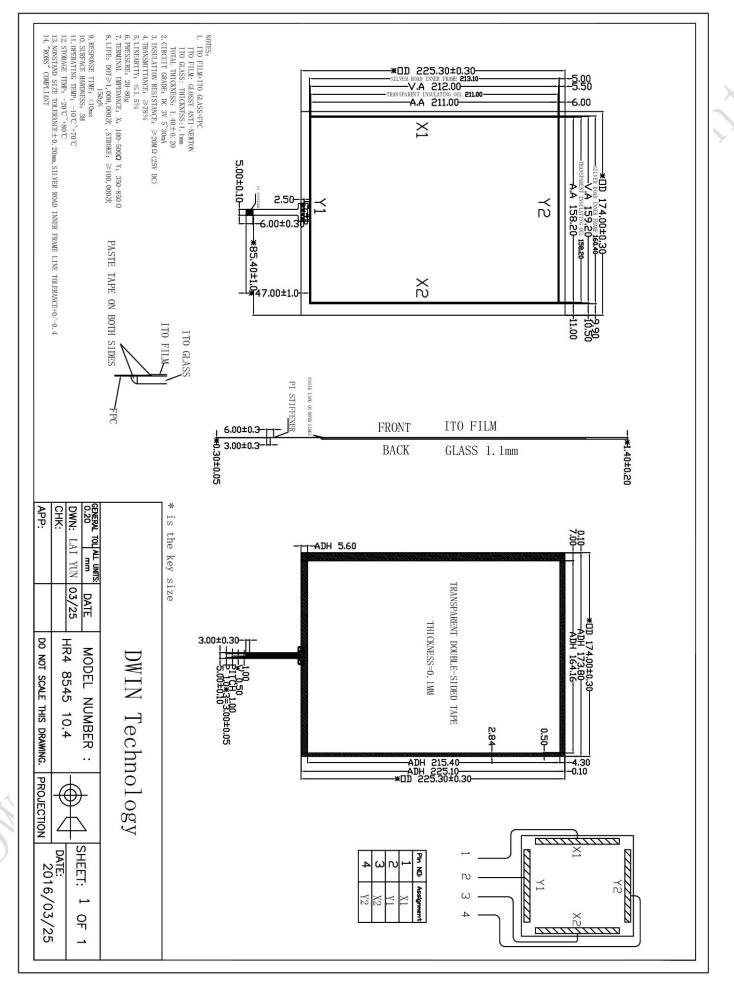
Structure	Materials Description		
		Thickness: 0.2mm	
Top Circuit	ITO Film	ITO Film with Anti-glare hard	
		coating&Anti-Newton Ring	
Pottom Circuit		Thickness: 1.1mm	
Bottom Circuit	ITO Glass	ITO Glass with Anti-reflection	
Tail Type	FPC	Thickness: 0.3mm	

2 General Features

Item	Description	Unit
Туре	Four-Wire Resistive	-
Screen Size	10.4	inch
Physical Dimension	174.0(W)*225.3(H)*1 4(T)	mm
Active Area	160.40(W)*213.1(H)	mm
Tail Length	47±1.0	mm
Surface Hardness	3H	-
Life	Dot >1,000,000; Stroke >100,000	-
Humidity	20%~90% non dew condensation	
Operating Temperature	-10~70	°C
Storage Temperature	-20~80	°C

Note: Compliant with the latest RoHS directive.

3 Dimension Drawing



4 PIN Definition

PIN	Signal	Description		
1	X1	X-(Left)		
2	Y1	Y-(Down)		
3	X2	X-(Right)		
4	Y2	Y-(Up)		

5 Optical Characteristics

Item	Value	Remark
Light Transmittance	≥78%	$\mathbf{\nabla}$

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

6 Electrical Property

Item	Value	Remark
Rated Voltage	3V	*
Current	5-30mA	
Terminal Impedance	Χ: 100-500Ω Υ: 350-850Ω	
Linearity	X direction: within ±1.5% Y direction: within ±1.5%	Testing method as Figure 1
Insulation Resistance	DC 25V 20MΩ above	Connect X+ \sim X- and Y+ \sim Y-, apply 25V DC Between X and Y for perform measurements

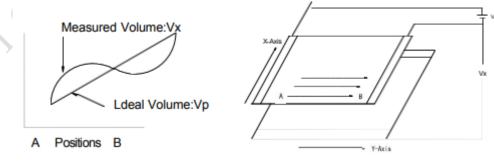


Figure 1

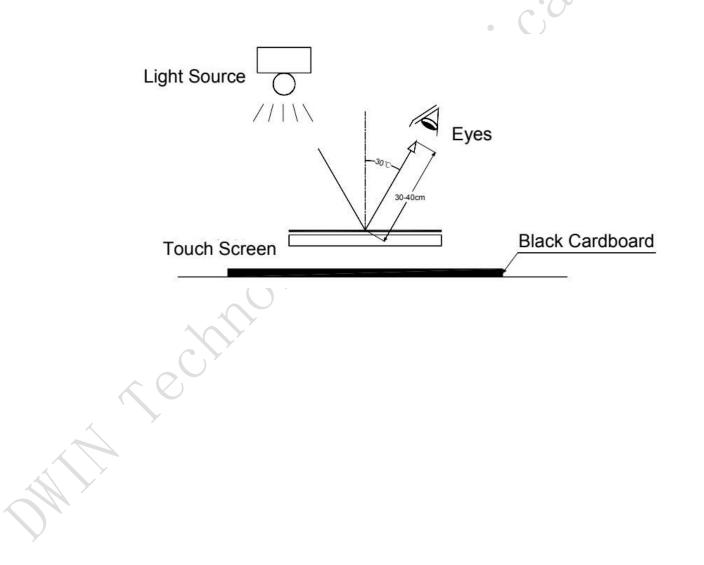
7 Appearance testing

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.



7.3 Appearance Defect&Damage

View area(cover)

ltem	Specifications		Judgment Content		
nem			View Area		Outside the VA
	D≦0.25mm		Negligible		
Spotted Foreign Object	0.25mm <d≤0.3mm< td=""><td colspan="2">N≪4(spacing at least10MM or more)</td><td>Negligible</td></d≤0.3mm<>		N≪4(spacing at least10MM or more)		Negligible
	0.3mm <d≤0.35mm< td=""><td colspan="2">N≪3(spacing at least10MM or more)</td><td>Negligible</td></d≤0.35mm<>		N≪3(spacing at least10MM or more)		Negligible
	D>0.35mm		Fault		Negligible
)3mm or 1.0mm	Negligible		ble
Linear Foreign Object		≪0.04mm ≪3mm	N≪4(spacing at least10MM or more)		Negligible
		≪0.05mm ≪3mm	N≪3(spacing at least10 or more))MM	Negligible
	0.05mm <w< td=""><td>Judged by the specificat of the punctate foreign b</td><td></td><td>Negligible</td></w<>		Judged by the specificat of the punctate foreign b		Negligible
	Ν		the entire screen into 9 pa between two defects \geq 5m		
	Fragments (Surface)	X≤0.5mm, Y≤0.5mm, Z≤1/2glass thickness	XYY	Negligible	
Fragments	Fragments (Back)	X≪0.5mm, Y≪0.3mm, Z≪1/2glass thickness	XYY	Negligible	
	Progress	sive crack			Fault

7.4 Other

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. The monthly output of CTP is about 1 million pieces, and the monthly output of RTP is about 500000 pieces.

Laser split and finishing integrated molding



100 meters long clean workshop achieving 6-station articulated automatic printing line



Automatic cleaning and tempering line



TILL

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





9.2.2 Process

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



Record of Revision

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

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!