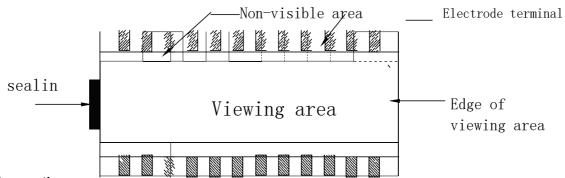
LCD defect detection details (Class C)



1. Appearance inspection

Defective item	Legend		Testing sta	andards
Point defects 1. Internal	宽	Φ (mm) (diameter) Φ ≤ 0.2	judgement Excluding	
contamination 2. Impurities		0.3 < Φ ≤ 0.4	Acceptable 5	
3. Light	长	0.4 < Φ ≤ 0.5	Acceptable 3	
leakage and other point	Φ = (L+W) /2	Φ > 1.0		NG
defects (except for the intersection points of normal design)	+ (L · W)/ L	5.0mm.	ear, the distance mathemathe the visible area are	
Linear defects	T	Lenth(mm)	Width(mm)	Judgement
1. Wool 2. Fiber		Excluding	≤ 0.1	Excluding
3. Glass scratches and other linear	a	≤ 5.0	≤ 0.2	3 pieces allowed
defects		≤ 3.0	≤ 0.3	Accept 2
		-	> 0.5	NG
1 Dolorizor		requirements. 2. When the line is round object and j 3. When the lengt as internal pollutio time, the distance 4. Outside the visu	on; when both appe must be greater thual area is not coul	s judged as a pollution. 0.04, it is inspected ear at the same nan 5.0mm.
1.Polarizer impurities 2. Bubbles 3. Concave and convex spots 4. Puncture wounds 5.Water pattern	There is 1. Dirt between the polarizer and the glass. 2. Concave or convex caused by air	 The visible area is inspected according to the point defect standard, and the area outside the visible area is not counted. The bubble caused by the object must be at least 0.5mm away from the visible area. 		

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Polarizer is crooked		 Polarizers are not allowed to extend beyond the edge of the glass. The distance between the polarizer and the edge of the glass should not exceed 1.5mm and at least 0.2mm should not enter the visible area.
External silk screen bubble	-	The width of the bubble should not exceed 0.5mm, and there should be no obvious black shadow.
Powder (lump)	-	Inspect by point or line defects.



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Defective item	Legend	Testing standards
Crack	L b a	Not allowed, the crack can be removed and tested for damage
Background	Some or all of the background color of the LCD product is different from the background color of the sample.	The base color of the product and the base color of the sample confirmed by the customer are not allowed to have obvious color difference, otherwise the plate will be signed for inspection and packaged separately. (Confirmation by the customer is required if necessary)
rainbow	There is obvious color difference on the same piece of glass	Not allowed, limit plate can be made for inspection. (Customer confirmation is required if necessary)
1. The sealing glue is too long 2. Too high 3. Off position	3 	 The height or length shall be subject to the dimension tolerance of the engineering drawing. The deviation is not allowed.
Poor sealing glue penetrati on	可概置	The minimum penetration of the sealing glue is 1/3 of the distance from the glass edge to the retaining line, and the maximum penetration does not enter the visible area.
Sealing glue falls off		Not Allowed
The crystal is not full	-	Not Allowed
Uneven frame lines	↑A → B	 ≥3/2 of the average frame width or ≤1/2 of the average frame width, rejected. Rejected if entering the visible area.
Uneven edges	A	1. A ≤ 0.5mm, accepted
		2.A > 0.6mm, rejected

2. Damage inspection

Note: "X" indicates the "Y" indicates the crack width "Z" damaged length indicates the crack thickness "T" and "D" indicates indicates the thickness of a single the PIN width piece of glass			
Defective item	Legend	Testing Standard	
General damage 1. Non- electrode area Glass surface 2. Surface bonding area Damage	Y 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2	 X direction is not limited. Y direction does not enter the visible area, it is acceptable. Z does not cause ≤1/3 frame line leakage, it is acceptable. Note: X, Y, Z must be considered at the same time during inspection, and if one of them fails, it will be judged as NG. 	
LCD defect detection details (Level B)		 No limit in X direction. Acceptable if 1/3 of the frame line is not entered in Y and Z directions or 1/3 of the silver point is leaking outside. Note: X, Y and Z must be considered at the same time during inspection. If one of them fails, it will be judged as NG. 	
LCD defect detection details (Level B)	D 电极端子区	 X direction is not limited Y direction ≤ 1/3D Note: X, Y, and Z must be considered at the same time during inspection. If one of them fails, it will be judged as NG. 	
LCD defect detection details (Level B)	D P	 Non-pressed paper model: Y direction ≤ 1/3D, length not included. Pressed paper model, Y direction ≤ 1/4D W and L are subject to the dimensional tolerance of the engineering drawing, and the deviation should be ≤ ± 0.5mm 	

LCD defect detection details (Level C)

3. Telecommunications performance test

Defective item	Legend	Testing standard
Legend	After power on, the displayed pen segment is not displayed	Not allowed
	After passing normal	1. Not allowed
l light accompant	voltage, the product current	2. If necessary, the current
High current	consumption reaches or	limit needs to be agreed
	exceeds the set value	with the customer
Short circuit	-	Not allowed
	During normal electrical	
Font diffusion	testing, part or all of the	Not allowed
T OH Ullusion	pen segments become	Not allowed
	thicker.	
1. White		Controlled as point defects
2. Pinhole		and Φ is less than 1/3 of
		the width of the pen
		segment.
	$\Phi = \frac{W + L}{2}$	(Limited sample inspection
		can be performed if
		necessary).
Concave and convex		Controlled as point defects
points	12	and W is less than 1/2 of
2. Multiple strokes		the width of the pen
		segment. If necessary, a
		limit sample test can be
		performed.
Combination		$1. (A-B) \leq 0.5 \text{mm is}$
	h	acceptable.
		2. B/A ≥ 3/4 is acceptable.
		Multiple scratches caused
		by combined deflection are
		inspected according to the
		point and line standard
		If necessary, a limit plate
Links and doub strates	The new economists and	can be used for inspection
Light and dark strokes	The pen segments are	Not allowed
	unstable, dark or missing	

	due to poor contact of the conductive points.	
Light words	blurred compared to the	It is not allowed. If necessary, a limit template can be established for control.
Threshold voltage	-	 ≤1/4Duty is controlled by ±0.04V according to the sample confirmed by the customer. >1/4Duty is controlled by ±0.03V.

4. Installation pin inspection

Defective item	Legend	Testing standard
Pins are crooked	The clamp and the electrode terminal are not on the same line (at an angle of φ)	 1 φ>5° is not allowed 2.Does not meet the requirements of the engineering drawing is not allowed
PIN skew		The skew of the PIN foot in the X or Y direction does not exceed 9°. There should be no distortion within 9mm of the PIN end.
Chuck bias	- X X	The chuck deviation must be ≤ the conductive wire width ±0.5mm.
Glue bubbles		Not allowed to connect to PIN
Glue Cutting		Not Allowed
There is glue outside the chuck		Not Allowed
Glue seeps into polarizer		Not Allowed
Glue height	В	Exceeding the height of the upper polarizer: Not allowed (B in the figure) Lower polarizer 1.0mm (H1-H>1.0mm):
No glue around the chuck	H	Not allowed Not allowed (A in the figure)
Glue shape	HI A 夹头外	Wrap each chuck, fill the gap, make the surface smooth without depression, and no glue clumps on the back.
Glue not cured	-	The glue is not allowed to be completely cured (if the glue does not stick to your fingers when pressed, it is

	OK, otherwise it is NG).
The pin is not installed to the bottom	- Not Allowed
Conductive adhesive offset	The PIN chuck should not exceed 0.2mm
PIN bevel cutting	Control according to engineering drawing requirements.
PIN shape	After PIN cutting, there should be no hooks, no obvious bending or deformation, and no obvious damage to the coating.

LCD defect detection details (Level C)

5. Product internal and external silk screen inspection

Defective items	Legend	Testing Standard
Pattern	-	Subject to the sample confirmed by the customer
color		
Wrong ink	-	Not allowed
Position	-	Controlled by the requirements of the engineering
offset		drawing (screen printing film can be checked)
Tilted	-	Controlled by the requirements of the engineering
pattern		drawing (screen printing film can be checked)), the
		maximum tilt angle is ±1°.
Broken silk	-	Inspected according to the linear defect standard
screen		
Missing	-	Not allowed (screen printing film can be checked)
pattern		
Blurred	-	Inspected according to the sample confirmed by the
pattern		customer
1. Hairy	-	Meet the requirements of engineering drawings, visual
lines 2.		lines are smooth, and the width of burrs or the length of
Wiredrawin		wire drawing does not exceed 0.5mm
g		
Scratched pattern	-	Inspect according to the appearance linear defect standard
Line width	-	Control according to the requirements of the engineering
		drawing (can be checked by silk screen film matching).
1. Dirty	-	
spots 2.		Inspection according to point defect standards
Bubbles on		
the pattern		
Uneven line	_	Meet the requirements of engineering drawings, visual
thickness		lines are smooth, and line thickness changes within ±
		0.5mm