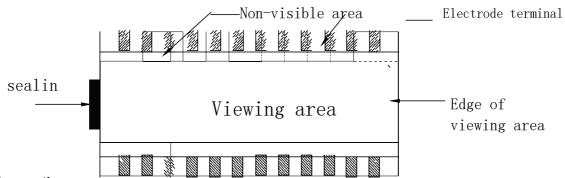
LCD defect detection details (Class B)



1. Appearance inspection

Defective item	Legend		Testing sta	ndards
Point defects	- Abr	Φ (mm) (diameter)	judgement	
1. Internal	宽	Φ ≤ 0.1	Excluding	
contamination 2. Impurities		0.1 < Φ ≤ 0.2	2 pieces allow	ved
3. Light	长	0.2 < Φ ≤ 0.25	Accept 1	
leakage and other point	. (1.1M) (0.	Φ > 0.25		NG
defects (except for the intersection points of normal design)	Φ = (L+W) /2	5.0mm.	ar, the distance mu	
Linear defects		Lenth(mm)	Width(mm)	Judgement
1. Wool 2. Fiber		Excluding	≤ 0.02	Excluding
3. Glass scratches and other linear	a	≤ 5.0	≤ 0.04	2 pieces allowed
defects	C	≤ 3.0	≤ 0.05	Accept 1
		-	> 0.05	NG
		requirements. 2. When the line is round object and j 3. When the lengtl as internal pollutio time, the distance 4. Outside the visu	en both length and a 3/4 of a circle, it is udged as internal ph>5 or the width>0 or; when both appermust be greater thual area is not cour	s judged as a collution04, it is inspected ear at the same han 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	defect standard, a not counted. 2. Th be at least 0.2mm	a is inspected accound the area outsid ne bubble caused be away from the vis /3 LCD, 1 line is al	e the visible area is by the object must ible 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 0.25mm, and there should be no obvious black shadow.



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	Powder	-	Inspect by point or line defe	ects.
	(lump)			

Defective item	Legend	Testing standards
Crack	L b	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.	There must not be any obvious color difference between the base color of the product and the base color of the sample confirmed by the customer. Otherwise, the plate will be checked 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	E.	 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	羅羅	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 ≤ 0.2mm, accepted 2.A > 0.2mm, 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	Y 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	 X direction is not limited. Y direction does not enter the visible area, it is acceptable.
area Glass surface	T T	3. Z does not cause ≤1/3 frame line leakage, it is acceptable.
2. Surface bonding area Damage		Note: X, Y, Z must be considered at the same time during inspection. If any one of them fails, it will be judged as NG.
LCD defect detection		1. No limit in X direction.
details (Level B)	A	2. 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		1. No limit in X direction.
details (Level B)	THE THE THE	2. 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.
	电极端子区	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	J ^T 7	1. No limit in X direction.
detection details (Level B)	D. A. A.	2. 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)

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
I li uh	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).
1. Concave and convex		Controlled as point defects
points	-13-11-11-11-11-11-11-11-11-11-11-11-11-	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
Combination		performed.
Combination	,	$1. (A-B) \leq 0.2 \text{mm is}$
	H-1 -1 -	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
		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
	The clamp and the	1.c>5° is not allowed
Dine one one dead	The clamp and the electrode terminal are not	2.Does not meet the
Pins are crooked	on the same line (at an	requirements of the
	angle of φ)	engineering drawing is not
		allowed
		The skew of the PIN foot in the X or Y direction does
PIN skew		not exceed 5°. There
		should be no distortion
		within 5mm of the PIN end.
	Z Z	The chuck deviation must
Chuck bias	· ' \	be ≤ the conductive wire
	· Caal	width ±0.2mm.
Glue bubbles		Not allowed to connect to
		PIN Not Allowed
Glue Cutting There is glue outside the		Not Allowed
chuck		Not Allowed
Glue seeps into polarizer		Not Allowed
		1. Exceeding the height of
		the upper polarizer: Not
Glue height		allowed (B in the figure)
		Lower polarizer
		2. 1.0mm (H1-H>1.0mm):
		Not allowed
No glue around the chuck	В	Not allowed (A in the figure)
	H	Wrap each chuck, fill the
		gap, make the surface
Glue shape	HI A # strate	smooth without depression,
	A 夹头外	and no glue clumps on the back.
		The glue is not allowed to
Glue not cured	_	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.

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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 0.1mm
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 ±
		0.1mm