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INCOMING INSPECTION STANDARD

Model: HSD 8-inch WVGA(MDL)
Series

Accepted by:				
Signature	Date			
Proposed by: Technical Service Division				
Signature	Date			

Note:1.Please contact HannStar Display Corp. before designing your product based on this module specification.

2.The information contained herein is presented merely to indicate the characteristics and performance of our products. No responsibility is assumed by HannStar for any intellectual property claims or other problems that may result from application based on the module described herein.



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		Record of Revisions
Rev.	Date	Description of change
Rev. 1.0	Date	



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1.0 PURPOSE:

This Incoming Inspection Standards shall be apply to TFT-LCD Module

2.0 VISUAL INSPECTION CRITERIA

- 2.1.Inspection condition is as followings
 - Viewing distance is approximately 30 cm
 - Viewing angle is referred to the CAS.
 - Ambient temperature is in the room temperature
 - Ambient illumination is 300±50 Lux.

Defect type		Criteria		
	Area (Note 2)		I	0
	Bright Dots (Note 3)		N ≦ 0	N ≦ 2
	Dark Dots (Note 4)		N ≦ 2	N ≦ 4
	Bright Dot- 2 Adjacent (Note 5)		N :	≦ 0
	Dark Dots- 2 Ad	djacent (Note 6)	N :	≦ 0
Electrical defect	Dark or Bright [Oots- 3 and More Adjacent	NI -	≦ 0
	(Note 6)		IN .	≥ 0
	Total Bright and	I Dark Dots	N :	≦ 4
	Minimum Dista	nce Between Bright Dots	5 r	nm
	Minimum Dista	nce Between Dark Dots	5 mm	
	Minimum Distar Dots	nce Between Dark And Bright	5 mm	
			Visible under : ND5%	
		Circular Foreign Material	1.D≦0.15mm : No count	
		Dark/ Bright Spot	$2.0.15$ mm $<$ $D \le 0.5$ mm, $N \le 4$ 3.D > 0.5mm $:$ Not allowable	
	Foreign		Invisible under ND5%	
	Foreign Material		0.1mm < W ≤ 0.5mm,	
		Linear Foreign Material :	0.3 mm $<$ L \leq 1.5mm,N \leq 4	
Visual defect		Bright or Dark Line	Visible under ND5%	
visual defect			0.05 mm \leq W \leq 0.1mm,	
			0.3mm≦L≦0	.7mm,N≦4
			0.05mm≦W≦0).2mm,
	Polarizer	Linear Scratch	1.0mm ≤ L ≤ 5.0	•
		Bubble/ Peeling	0.15 mm $\leq D < 0.5$ mm, $N \leq 4$	
	Mura & Leak		ND5%	

D: diameter, N: number, W: horizontal width, L: vertical height



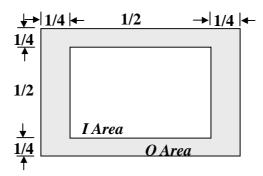
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2.2. Others

Note(1) a. Every dot herein means sub-pixel(Each Red, Green, Blue Color).

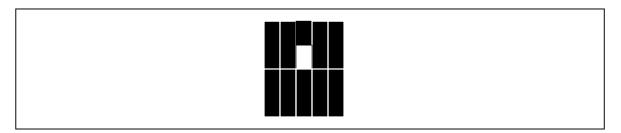
- b. Damaged less than half size of sub-pixel is not counted as defect.
- c. Extraneous substances which can be wiped out are not considered as defect.
- d. Defects which is on the Black Matrix(Outside of Active Area) are not considered as defect.

Note (2) Definition of Area



Note (3) Bright dot defect definition

-bright area is more than 50% of one dot .All bright dot defect must be visible through 5% ND filter.

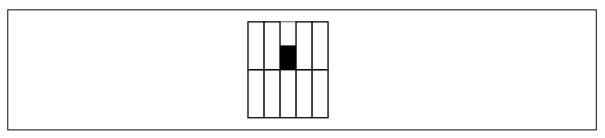




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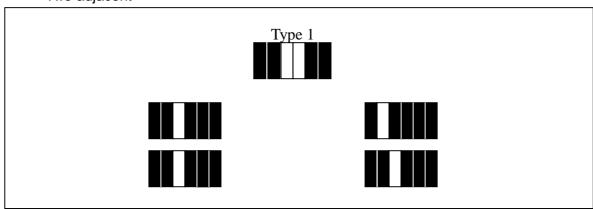
Note (4) Dark dot defect definition

-Dark area is more than 50% of one dot . All bright dot defect must be visible through 5% ND filter.



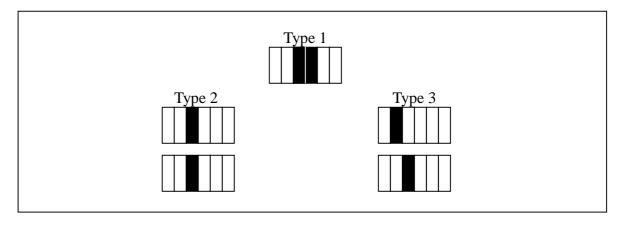
Note (5) Bright dot defect description

- Two adjacent



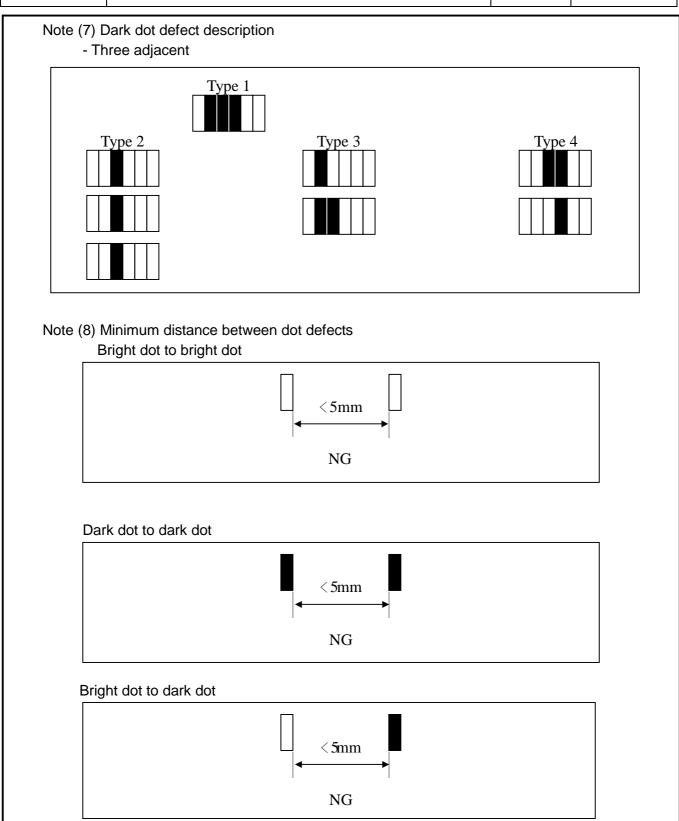
Note (6) Dark dot defect description

- Two adjacent





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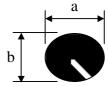




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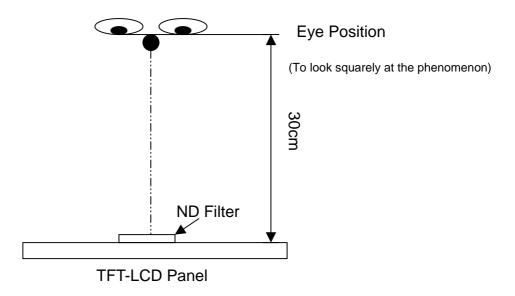
Note (9) "Average Diameter" description

Average Diameter = (a+b)/2



The defect that are not defined above and considered to be problem shall be reviewed and discussed by both parties.

Note (10) Bright dot, mura and leak are defined through transmission ND Filter as following.



Note (11) It doesn't matter whether silicon or EGC is used for frame spread, this product is always reliable.