

BON RMA POLICY

(Monitor Panel)

QC Team

1. Warranty

As for the **DEFECT** described on this document, RMA Warranty based on DOA will be conducted..

(**Defect On Arrival** : within 2months from products release date)

As for the other panel functional problems, RMA warranty periods 12months will be applied

2. Inspection Introduction

2.1. Conditions

viewing distance	100 ~ 120 cm
ambient illumination	300 ~ 700 Lux (nominal 500 Lux)
ambient temperature	21 + - 1 'C
display pattern	Pure R, G, B, Black and White
inspection area	active area

2.2. Defect Modes

dark / bright spots

points on the display which appear dark / bright and remain unchanged in size

dark / bright lines

lines on the display which appear dark / bright and remain unchanged in size

polarizer scratch

when the unit is lit a light, line is seen across a darker background; line does not vary in size

bright / dark dot

A sub-pixel (R, G, B dot) stuck off / on

3. Electrical Inspection

L : length, N : count]

Defect Type	Standard Inch < 32"	Standard Inch ≥ 32"
Bright dot Random two adjacent	N > 1 N > 0	N > 2 N > 0
Dark dot Random two adjacent	N > 3 N > 1	N > 5 N > 2
Maximum allowable number of dot defect (Bright dot and Dark dot)	N > 4	N > 7
Minimum distance between defects	L > 10mm	L > 10mm

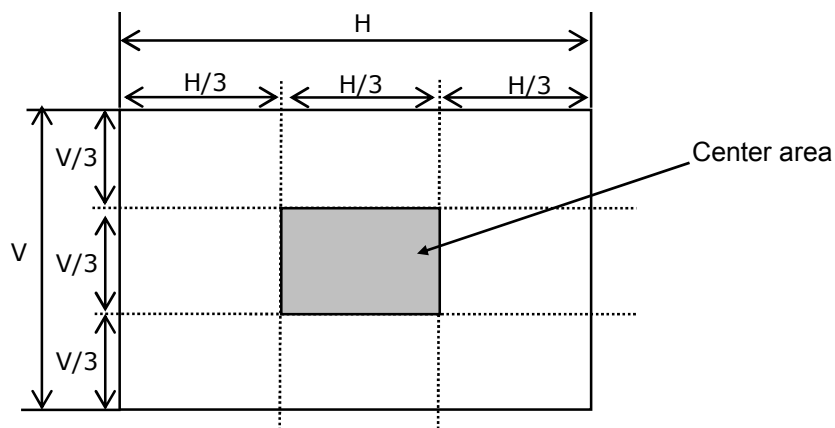
For more information see Figure 1,2.

Definitions/ Notes:

- A bright dot : any Red, Green, or Blue pixel stuck in the "On" mode.
- A dark dot : any Red, Green, or Blue pixel stuck in the "Off" mode.

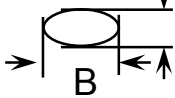
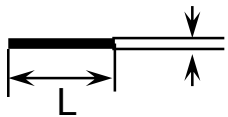
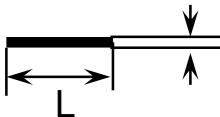
Exceptions:

- If Bright / Dark Dot is located in the center of the Panel , regardless of the Dot numbers, RMA will be conducted



4. Visual Inspection

[D : diameter, W : width, L : length, N : count]

Defect Type	Standard	
Dark / bright spot (foreign material, Stain, Dust)  $D = (A+B)/2$	$0.2 < D \leq 0.5$ $N > 5$	$D > 0.5$ $N > 0$
Foreign Material (dark lint / hair) 	$0.05 < W \leq 0.1$ $0.3 < L \leq 3.0$ $N > 2$	$W > 0.1$ $L > 3.0$ $N > 0$
Polarizer scratch 	$0.05 < W \leq 0.1$ $0.3 < L \leq 3.0$ $N > 3$	$W > 0.1$ $L > 3.0$ $N > 0$

5. Luminance

	Condition	Standard
Luminance Of white	all pixels displaying white Color Temperature : 6500K center 1 point	$\geq 100 \pm 10 \%$
Luminance Uniformity	$Lu = L_{Max}(P1 \dots P9) / L_{Min}(P1 \dots P9)$	$Lu \geq 1.30$ (Except for additionally agreed details)

For more information see Figure 3.

Fig. 1. Minimum distance between dot defects

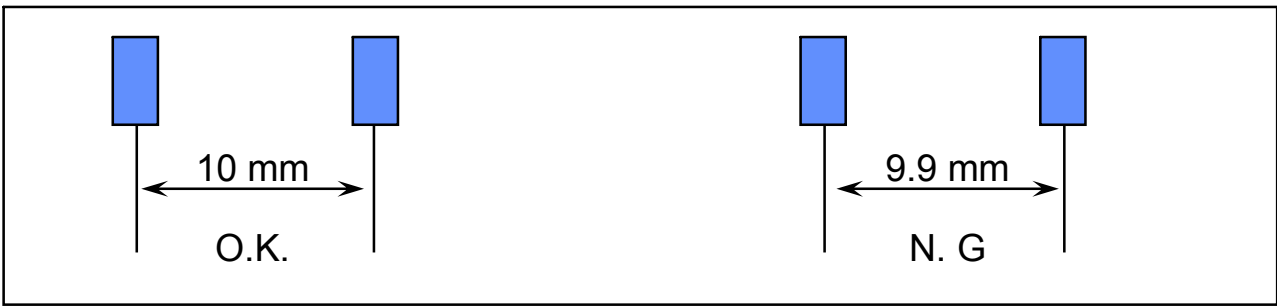


Fig. 2. Two Adjacent

【two adjacent Dark Dot】

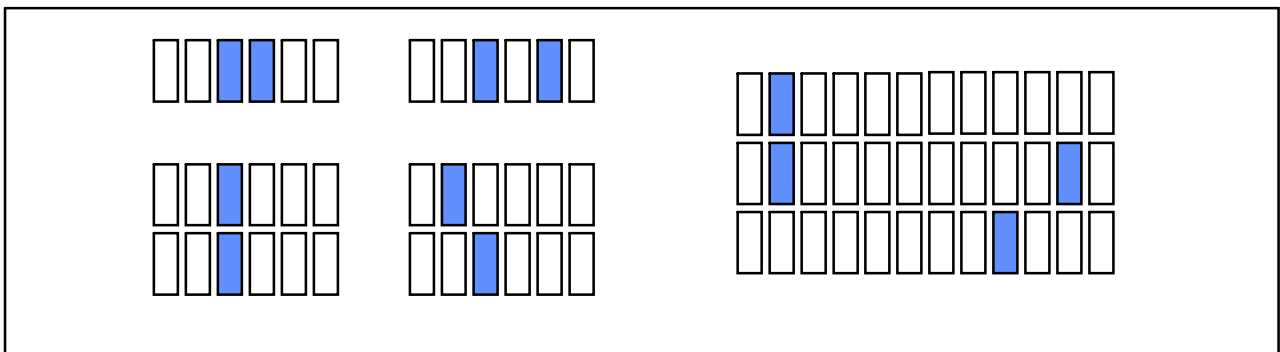


Fig. 3 Luminance measuring point

<Measuring point for luminance variation><Measuring point for surface luminance>

