
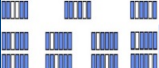



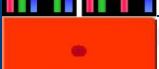





# Pixel Defect Criteria

LCD displays are made up of a set number of pixels and each pixel is made from 3 sub-pixels; one Red, one Blue and one Green. Every sub-pixel is addressed by its own transistor and so the manufacture of a glass substrate is very complex. Due to the nature of the manufacturing process, occasional defects can occur. Pixel defects or failures cannot be fixed or repaired and can happen at any stage in the LCD's life.

The below table details how many defaults are acceptable in a display before it should be replaced, within the terms & conditions of warranty. It is based on ISO13406 the international standard for pixel defects in TFT panels.

The table below shows the allowable number of malfunctioning pixels that are acceptable:

<b>Panel Defect Criteria</b>										
Dot inspection		Defect picture	Test Pattern	10.4"	17"	19"	26"	32"	40"	57"
Bright Dot	Random		Black, Gray	4	5	4	1	1	1	3
	two adjacent			1	2	1	0	0	0	1
Low dot	Random		Black, Gray	-	-	-	8	8	8	10
	two adjacent			-	-	-	0	0	0	0
	three adjacent			-	-	-	0	0	0	0
Dark dot	Random		White, R,G,B	4	7	6	8	8	8	10
	two adjacent			1	4	3	2	2	2	3
	three adjacent			0	1	1	0	0	0	1
<b>Maximum allowable number of dot defect</b>				<b>8</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>15</b>
<b>Minimum distance between defects</b>										
Bright dot to Bright dot			Black, Gray	All allowed	L=15mm	5mm	5mm	-		
Dark dot to Dark dot			White, R,G,B		L=5mm	5mm	5mm	-		

**NOTE:** The above details are decided upon by the manufacturer of the actual LCD display and are not therefore subject to the discretion of Aquavision or its retailers/distributors.



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