

## LCD Projector Information

### A note on LCD Projector Technology

The coloured picture produced by a LCD projector is made up of 3 separate colour images (red, green and blue). Each colour image is produced by (in the case of XGA models) 786,432 individual picture elements. Each element is individually controlled, turning on or off as required.

If one of the picture elements fails to operate then a coloured element is permanently turned on (a "Bright" dot) or off (a "Black" dot). With almost two and a half million picture elements in an XGA picture, manufacturers have to decide how many broken elements to tolerate before the LCD block is considered outside specification. Mitsubishi Electric Australia's product quality acceptance standard on picture elements is:

"Bright" dot Red  $\leq 1$ , Green = 0 and Blue  $\leq 4$ .

"Black" dot Red  $\leq 5$ , Green  $\leq 5$  and Blue  $\leq 5$ .

Picture images complying with the above quality test are deemed to be within operational specification.