

DLP Projector Information

DLP Projectors

Mitsubishi Electric strives to deliver the highest quality products. We use some of the industry's most advanced manufacturing processes and practise stringent quality control. However, pixel or mirror defects on the DMD chip used in DLP projectors are sometimes unavoidable. No manufacturer can guarantee that all DMD chips will be free from pixel defects, but Mitsubishi Electric guarantees that any projector with an unacceptable number of defects will be repaired or replaced under warranty.

Please see below for defects that are regarded as being within specification:

Pixel Defect

Dark Blemish	≤2
Bright Blemish	≤2
Adjacent Dark Pixels	≤0
Bright Pixels (Active Area)	≤0
(Out of Active Area)	≤1
Unstable Pixels	≤0
Dark Pixels	≤4
Blemishes	≤6

Definition of Defects

Blemish - A blemish is an obstruction, reflection, or refraction of light that is visible, but out of focus in the projected image under specified conditions of inspection. It is caused by a particle, scratch, or other artefact located in the image illumination path. Dark Blemish shall be darker than Microsoft Blue 60 and Bright Blemish shall be brighter than Microsoft Gray 10.

Dark Pixel - A single pixel or mirror that is stuck in the OFF position and is visibly darker than the surrounding pixels.

Bright Pixel - A single pixel or mirror that is stuck in the ON position and is visibly brighter than the surrounding pixels.

Unstable Pixel - A single pixel or mirror that does not operate in sequence with parameters loaded into memory. The unstable pixel appears to be flickering asynchronously with the image.

Adjacent - Two or more stuck pixels sharing a common border or common point, also referred to as a cluster.