

4.2 Cosmetic Grades

Standard:

Class	Point Defects	Cluster Defects	Column Defects
C1	20	2	0
C2	40	10	2

Dark Defect A pixel which deviates by more than 20% from neighboring pixels when illuminated to 70% of saturation

Bright Defect A pixel whose dark current exceeds 4500 electrons/pixel/second at 25°C

Cluster Defect A grouping of not more than 5 adjacent point defects.

Column Defect

- 1) A grouping point defects along a single column. (Dark Column)
- 2) A column that contains a pixel whose dark current exceeds 150,000 electrons/pixel/second at 25 C. (Bright Column)
- 3) A column that does not exhibit the minimum charge capacity specification. (Low charge capacity)
- 4) A column that loses >500 electrons when the array is illuminated to a signal level of 2000 electrons/pix. (Trap like defects)

Neighboring Pixels The surrounding 128 x 128 pixels of ± 64 columns/rows

Defects are separated by no less than 3 pixels in any one direction.

